```
Pro Cys Thr Thr Thr Thr Thr Pro Gln Pro Thr His Pro Gly Leu Ile
65                  70                  75                  80
Gln Val Asn Arg Ser Pro Lys Ala Phe Gly Ser Ser Ala Ser Ser Leu
                85                  90                  95
Val Ser Leu Pro Ala Gly Ala Val Phe Ala Lys Ile Thr Thr Ala Thr
            100                 105                 110
Pro Ser Lys Lys Ala Tyr Thr Ser Val Gln Thr Gly Arg Asp Ser His
        115                 120                 125
Ile Glu Leu Asn Ser Asp Leu Val Phe Cys Asn His Ser Cys Asp Pro
    130                 135                 140
Ser Leu Asn Phe Asp Met Asp Lys Met Glu Val Arg Val Val Asp Asp
145                 150                 155                 160
Arg Pro Leu Lys Val Gly Asp Ala Leu Thr Phe Phe Tyr Pro Ser Ser
                165                 170                 175
Glu Trp Glu Met Asp Gln Ala Phe Asn Cys Asn Cys Gly Ser Thr Lys
            180                 185                 190
Cys Lys Gly Trp Ile Ser Gly Ala Lys Thr Met Gly Arg Glu Glu Leu
        195                 200                 205
Glu Gly Tyr Trp Leu Asn Pro His Ile Glu Glu Met Leu Arg Glu Arg
    210                 215                 220
Asp Gly Gln Leu
225
```

<210> 22542
<211> 63
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22542

```
Tyr Glu Trp Gly Lys Asn Thr Leu Met Ala Phe Ile Thr Leu Phe Pro
1               5                   10                  15
Leu Ala Phe Gly Arg Gly Met Val Xaa Gly Ile Thr Val Ser Ala Pro
            20                  25                  30
Gly Asn Ala Gln Gln Phe Ala Arg Val Cys Val Cys Thr Ile Ile Met
        35                  40                  45
Phe Ser Val Phe Leu Ile Lys Arg Asp Arg Ser Ser His Leu Thr
    50                  55                  60
```

<210> 22543
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22543

```
Ser Gln Val Gly Leu Ile Phe Pro Arg Leu Gln Tyr Ser Pro Ser Thr
1               5                   10                  15
Lys Asn Ser Gly Ser Ser Glu Pro Ser Gly Ile Ala His Leu Arg Gln
            20                  25                  30
Ser Asp Arg Pro Ser Phe Ala Arg Pro Ser Thr Ser Thr Asp Leu Ala
        35                  40                  45
Ser Asp Pro Met Asn Ile Asp Asp Phe Ile Val Pro Ile Glu Ser Pro
```

```
    50                  55                  60
Ala Glu Ser Ser
65

<210> 22544
<211> 107
<212> PRT
<213> A.fumigatus

<400> 22544
Pro Cys His Asp Gly Ile Met Ser Gly Met Ser His Gly Gly Ala Pro
1               5                   10                  15
Lys Ala Ala Arg Pro Thr Pro Thr Ala Val Ser Ala Ser Ser Gly Tyr
            20                  25                  30
Asp Ile Ala Asp Ala Asp Arg Ser Ser Ser Ser His Phe His His Thr
        35                  40                  45
Ser Gln Leu Ser Asp Asp Phe Ser Arg Gly Ser Pro Ile Ser Pro Pro
    50                  55                  60
Asp Ser Ala His Val Gln Asp Gly Leu Leu Gln Asp Ser Leu Phe Pro
65                  70                  75                  80
Glu Trp Arg Asn Ala Ala Pro Arg Ala Gly Val Glu Ser Pro Asp Glu
                85                  90                  95
Met His Arg Lys Asp Pro Leu Ala Thr His Ile
            100                 105

<210> 22545
<211> 107
<212> PRT
<213> A.fumigatus

<400> 22545
Lys Leu Tyr Ser Arg Thr Lys Ala Gln Leu Pro Asn Gln Glu Arg Met
1               5                   10                  15
Glu Asn Leu Thr Trp Arg Met Met Ala Met Ser Leu Lys Arg Lys Glu
            20                  25                  30
Arg Glu Arg Leu Gln Gln Asn Lys Arg Tyr Val Tyr Asp Asn Ser Gly
        35                  40                  45
Ala Trp Thr Ile Ala Phe Phe Glu Val Arg Leu Asp Ser Ser Ser Leu
    50                  55                  60
Val Tyr Asn Ile Val Leu Arg Arg Arg Thr Val Ala Ala Arg Ser Arg
65                  70                  75                  80
Ala Val Leu Pro Ile Ser Val Ser Pro Thr Ala Leu Pro Leu His Gly
                85                  90                  95
His Gln His Pro Pro Ile Leu Pro Pro Thr Pro
            100                 105

<210> 22546
<211> 169
<212> PRT
<213> A.fumigatus

<400> 22546
Glu Pro Arg Asp Ser Phe Met Ile Gly Val Pro Arg Phe Gln Leu Arg
1               5                   10                  15
Arg Leu Asn Phe Ser Gly Ser Tyr Ile Tyr Gly Pro Arg Ala Thr Phe
            20                  25                  30
```

```
Ile Ser Asp Ile Gln Thr Arg Trp Ala Val Gln Phe Ser His Ser Gln
        35                  40                  45
Arg His Asn Met Thr Thr Val Val Asn Leu Pro Arg Asp Pro Asn Thr
    50                  55                  60
Leu Ser Asn Tyr Asn Asn Trp Val Ser Thr His Ile Thr Ala Asn Phe
65                  70                  75                  80
Asp Ile Leu Phe Asp Gln Arg Lys Leu Ala Gly Asn Val Ile His Arg
                85                  90                  95
Phe Arg Ser Thr Thr Asp Gly Glu Ser Asn His Ile Ile Leu Asp Thr
            100                 105                 110
Asn His Leu Asp Ile Gly Ser Val Lys Val Asn Gly Gln Pro Ser Glu
        115                 120                 125
Trp Glu Tyr Leu Pro Arg Leu Glu Pro Tyr Gly Thr Pro Leu Lys Ile
    130                 135                 140
Lys Leu Asp Gln Gly Val Lys Leu Asn Glu Thr Ile Glu Ser Ser Pro
145                 150                 155                 160
Arg Gly Trp Lys Glu Pro Arg His His
                165
```

<210> 22547
<211> 258
<212> PRT
<213> A.fumigatus

<400> 22547

```
Asn Ala Pro His Arg Arg Phe Pro His Gln Arg Ser Ser Val Ala Glu
1               5                   10                  15
Ile Ile Ser Phe Glu Ala Ser Trp Val Arg Asn Phe Thr Leu His Val
            20                  25                  30
Pro Gly Asn Phe Tyr Tyr Asn His Gly Ala Gln Ser Val Gln Asn Val
        35                  40                  45
Asp Phe Cys Asn Val Thr Val Thr Tyr Ser His Pro Gly Tyr Asp Asp
    50                  55                  60
Arg Ile Thr Val Glu Thr Trp Leu Pro Arg His Trp Asn Gln Arg Leu
65                  70                  75                  80
Gln Ala Thr Gly Gly Gly Gly Trp Arg Ala Gly Arg Phe Val Leu Ser
                85                  90                  95
Gln Phe Phe Met Gly Gly Ala Ile Gly Glu Gly Tyr Ala Thr Thr Thr
            100                 105                 110
Thr Asp Ala Gly Leu Gly Asp Thr Met Pro Asp Ala Trp Ala Leu Lys
        115                 120                 125
Ser Thr Gly Asn Val Asn Leu Glu Tyr Leu His Asn Leu Gly Tyr Arg
    130                 135                 140
Ser Leu Asn Asp Glu Ala Ile Ile Ala Lys Asp Leu Val Arg Ser Phe
145                 150                 155                 160
Tyr Gly Ile Pro Pro Ala Tyr Ser Tyr Trp Ser Gly Cys Ser Gln Gly
                165                 170                 175
Gly Arg Gln Gly Leu Met Leu Ala Gln Arg Tyr Pro His Ala Tyr Asp
            180                 185                 190
Gly Ile Val Ala Ser Ala Pro Ala Gln Ser Trp Pro Glu Phe Val Thr
        195                 200                 205
Ala Val Tyr Tyr Pro Leu Leu Ala Pro Leu Trp Ala Gly Glu Pro Ser
    210                 215                 220
Pro Leu Ser Cys Glu Leu Asp Phe Arg Thr Ala Glu Ala Val Lys Pro
225                 230                 235                 240
Cys Glu Ser Pro Glu Gly Ile Val Asp Gly Ile Ile Ser Gly Pro Glu
```

245 250 255
Gln Leu

<210> 22548
<211> 67
<212> PRT
<213> A.fumigatus

<400> 22548
Pro Ile Cys Ala Phe Leu Gly Leu Gly His Ser Glu Leu Ser Arg Phe
1 5 10 15
Val Pro Ile Tyr Gln Ser Leu Glu Gly Lys Ala Gln Arg Lys Thr Ala
20 25 30
Ile Leu Tyr Asn Met Thr Arg Met Ala His His Gly Ile Pro Pro Thr
35 40 45
Gly Ile Leu Cys Tyr Asp Leu Ser Leu Ser Asp Ala Asp Ile Ile Ser
50 55 60
Ser Gln His
65

<210> 22549
<211> 73
<212> PRT
<213> A.fumigatus

<400> 22549
Leu Ala His Gly Trp Lys Ser Pro Gly Gly Arg Leu His Asp Ala Glu
1 5 10 15
His Ala Leu Glu Lys Gly Gln Val Val Ala Phe Met Ala Glu Gly Lys
20 25 30
Glu His Ala Cys Met Val Gly Pro Leu Lys Val Gly Thr Glu Glu Met
35 40 45
Lys Glu Lys Lys Lys Gly Val Val Met Asp Glu Gly His Tyr Leu Gly
50 55 60
Asp Gly Leu Trp Lys Met His Trp Asp
65 70

<210> 22550
<211> 106
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61),(85)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22550
Lys Cys Gly Asp Ala Val Asp Arg Ile Pro Thr Ala Ile Ala Gly Asn
1 5 10 15
His Thr Pro Pro Ser Ala Asn Leu Ser Asn Ser Leu Ile Met Thr Ser
20 25 30
Cys Pro Cys Leu Pro Ser Gln Ser Met Pro Asn Tyr Ile Ala Asp Pro
35 40 45
Glu Met Ala Val Pro His Asp Cys Val Phe Thr Val Xaa Leu Ile Gly

```
    50                  55                  60
Trp Leu Pro Glu Ser Pro Ala Glu Ser Pro Phe Ala Lys Leu Asn Ser
65                  70                  75                  80
Arg Leu Gly Leu Xaa Arg Arg Asn Asn Ile Phe Ala Gln Tyr Leu Ile
                85                  90                  95
Gly Leu Trp Tyr Gln Pro Asn Gln Val Phe
            100                 105
```

<210> 22551
<211> 344
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (342),(343)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22551

```
Phe Lys Lys Ile Gly Trp Gly Glu Arg Ala Ser Ser Glu Glu Arg Met
1               5                   10                  15
Arg Gln Glu Ala Ile Phe Ser Lys Lys Tyr Arg Ala Arg Arg Thr Thr
            20                  25                  30
Gln Ala Asn Phe Ser Lys Arg Lys Gly Ala Met Ala Arg His Phe Leu
        35                  40                  45
Asp Pro Ala Gly Glu Arg Arg Ser Asn Thr Ala Thr Gly Ala Gly Ile
    50                  55                  60
Gly Pro Asp Leu Asp Met Arg Pro Ser Gly Val Asp Lys Val Pro Ile
65                  70                  75                  80
Ile Arg Thr Leu Asn Met Leu Ser Glu Lys Ile Met Ala Asn Val Ala
                85                  90                  95
Pro Val Asp Arg Asp Pro Ser Ala Pro Val Gly Ile Asp Asp Glu Thr
            100                 105                 110
Tyr Lys Glu Leu Gln Leu Arg Asp Leu Arg Gly Asp Asp Glu Gln Asn
        115                 120                 125
Arg Ile Leu Leu Asn Ile Arg Asp Gln Ser Arg Phe Phe Ser Gln Ala
    130                 135                 140
Lys Val Thr Glu Asp Glu Gln Ser Arg Leu Phe Ala Lys Gln Asp Pro
145                 150                 155                 160
Asp Gln Ile Leu Arg Asp Leu Arg Gly Gln Ile Asp Arg Asp Leu Pro
                165                 170                 175
Thr Asp Gly Thr Ala Pro Leu Gly Lys Leu Val Glu Pro Glu Glu Leu
            180                 185                 190
Glu Asp Glu Asp Glu Gln Lys His Asp Gln Arg Val Gly Ser Gln Ala
        195                 200                 205
Asn Leu Gln Arg Ala Ser Lys Gln Ile Leu Asp Ala Ile Arg Asp Arg
    210                 215                 220
Arg Asn Gln Thr Glu Ala Thr Ser Thr Gly Gly Thr Tyr Gly Leu Ser
225                 230                 235                 240
Ala Asn Leu Tyr Asp Arg Leu Thr Leu Thr His Ala Thr Thr Thr Glu
                245                 250                 255
Phe Leu His Gln Phe Trp Gln Ala Phe Leu Ser Gly Asn Pro Asp Arg
            260                 265                 270
Ala Ala Glu Val Ala Ser Leu Val Glu Ser Leu Asn Arg Ala Met Glu
        275                 280                 285
Arg Ile Gln Ser Val Ala Pro His Ala Glu Ala Gln Arg Gln Val Glu
```

```
    290                 295                 300
Val Asn Arg Leu Lys Gln His Ala Arg Glu Val Leu Glu Ala Thr Gly
305                 310                 315                 320
Lys Lys Ile Val Phe Thr Thr Gly Leu Tyr Ala Pro Arg Val Val Ile
                325                 330                 335
Ser Thr Cys Ala Gln Xaa Xaa Phe
            340
```

<210> 22552
<211> 147
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (128),(129),(130)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22552

```
Phe Ser Arg Thr Leu Ser Met His Asn Pro Lys Glu Ala Ala Glu Glu
1               5                   10                  15
Leu Arg Arg Cys Val Glu Lys Tyr Gly Phe Leu Gly Ala Leu Val Asn
            20                  25                  30
Asp Thr Gln Arg Ala Gly Pro Asp Gly Asp Asp Met Ile Phe Tyr Asp
        35                  40                  45
Gln Pro Glu Trp Asp Ile Phe Trp Gln Thr Cys Thr Asp Leu Asp Val
    50                  55                  60
Pro Leu Tyr Leu His Pro Arg Asn Pro Thr Gly Thr Ile Tyr Asp Lys
65                  70                  75                  80
Leu Trp Ala Asp Arg Lys Trp Leu Val Gly Pro Pro Leu Ser Phe Ala
                85                  90                  95
His Gly Val Ser Leu His Val Leu Gly Met Val Thr Asn Gly Val Phe
            100                 105                 110
Asp Arg Gln Ser Ser Pro Gly Val Glu Arg Gly Tyr Lys Ser Ser Xaa
        115                 120                 125
Xaa Xaa Lys Asn Val Ile Asn Arg Asn Lys Gly Arg Asn Trp Tyr Tyr
    130                 135                 140
Ile Lys Ile
145
```

<210> 22553
<211> 125
<212> PRT
<213> A.fumigatus

<400> 22553

```
Ile Pro Thr Ser Ile Ser Gln Gly Glu Ala Pro Val Ser His Arg Asp
1               5                   10                  15
Gly Leu Glu Arg Leu Pro Phe Glu Glu Gly Phe Gly Ala Phe Arg Val
            20                  25                  30
Ser Lys Lys Lys Thr Arg Trp Trp Val Ser Leu Phe Ser Thr Asp Pro
        35                  40                  45
Glu Thr His Val Lys Glu Ile Thr Asp Ile Thr Lys Ile Arg Ile Gln
    50                  55                  60
Tyr Ala Asp Lys His Gly Val Gly Tyr Gln Ile Leu Ser Tyr Thr Ala
65                  70                  75                  80
```

```
Pro Gly Val Gln Asp Ile Trp Asp Ala Lys Glu Ala Gln Ala Leu Ala
                85                  90                  95
Val Glu Ile Asn Asp Tyr Ile Ala Glu Gln Ile Lys Glu Tyr Pro Asp
            100                 105                 110
Arg Phe Gly Ala Phe Ala Tyr Val His Ser Cys Phe Leu
        115                 120                 125
```

<210> 22554
<211> 112
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22554

```
Leu Ser Phe Gln Ile Ala Gln Asp Asn Ala Arg Pro Ser Leu Phe His
1               5                   10                  15
Asn Thr Gln His Lys Val Ile Tyr Phe Ile Val Lys Leu Gly Ile Ser
            20                  25                  30
Asn Val Leu Glu Glu Cys His Glu Ala Phe His Glu Asp Ser Pro Ile
        35                  40                  45
Val Phe Ile Asn Cys Gln Leu Asp Leu Pro Glu Glu Xaa Cys Glu Thr
    50                  55                  60
Tyr Lys Asn Lys Glu His Ser Cys Pro Thr Gly Thr Trp Ala Asp Glu
65                  70                  75                  80
Ala Gly Ile Ser Val Lys Asp His Ile Lys Asp Glu Arg Asp Ser Asn
                85                  90                  95
Leu Tyr Leu Leu Ser Phe Ser Glu Arg Pro Cys Leu Trp Cys Ser Leu
            100                 105                 110
```

<210> 22555
<211> 73
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(7),(8),(16),(25),(31),(37),(40),(43),(57),(63),(65),(68),(71),(73)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22555

```
Pro Xaa Pro Arg Pro Lys Xaa Xaa Ile Asn Phe Cys Lys Asn Ile Xaa
1               5                   10                  15
Ser Phe Pro Gly Pro Thr His Phe Xaa Asn Ala Ile Leu Leu Xaa Tyr
            20                  25                  30
Pro Ala Ile Ser Xaa Ala His Xaa Ala Leu Xaa Ala Gly Trp Leu Lys
        35                  40                  45
Val Trp Arg Leu Phe Thr Ala Ala Xaa Val Gly Ala Gly Ile Xaa Ser
    50                  55                  60
Xaa Val Ser Xaa Thr Lys Xaa Glu Xaa
65                  70
```

<210> 22556

<211> 68
<212> PRT
<213> A.fumigatus

<400> 22556
Gly Cys Asp Glu Ser Thr Gln Ile His Arg Leu Trp Lys Ser Gln Arg
1 5 10 15
Asn Ser Ser Leu Cys Arg Trp Ile Glu Pro Glu Asn Ser Tyr Ser Val
20 25 30
Tyr Asp Ala Met Lys Thr Asn Asn Ala Ser Met Val Glu Ser His Leu
35 40 45
Asn Arg Pro Thr Thr Pro Ser Val Ile Ile Gly Thr Gly Val Lys Val
50 55 60
Pro Val Glu Val
65

<210> 22557
<211> 67
<212> PRT
<213> A.fumigatus

<400> 22557
Ile Thr Leu Thr Gly Phe Leu Phe Val Val Ile Asn Phe Ile Thr Ile
1 5 10 15
Leu Trp Tyr Asn Pro Ala Leu Asp His Asp Cys Pro Pro Trp Val Tyr
20 25 30
Ala Ser Cys Ala Ile Gly Leu Phe Leu Tyr Gln Thr Phe Asp Ala Val
35 40 45
Asp Gly Met Gln Ala Tyr Gly Leu Pro Ser Ser Phe Pro Ser Ala Ser
50 55 60
Arg Leu Asp
65

<210> 22558
<211> 158
<212> PRT
<213> A.fumigatus

<400> 22558
Ile Ser Val Val Tyr Ser Asn Arg Pro Leu Pro Ser Glu Leu Thr Ser
1 5 10 15
Thr Ser Gln Gln Pro Ala His Phe Leu Ile Ser Thr Ala Thr Met His
20 25 30
Ser Thr Ser Ser Ser Glu Gly Thr Ser Ser Arg Gln Ser Pro Leu Gln
35 40 45
Ile His Ile Asp Glu Leu Ser Ser Leu Pro Leu His Asp Thr Ile Gln
50 55 60
Ser Leu Val His Leu Leu Pro Glu Leu Thr Thr Ser Ile Thr Pro Thr
65 70 75 80
Gly Glu Arg Leu Val Thr His Pro Thr Tyr Glu Gly Thr Gly Lys Leu
85 90 95
Asp Asp Leu Gly Ala Leu Tyr Leu Arg Ala Ala Asp Arg Cys Thr Arg
100 105 110
Glu Arg Ala Ser Phe Lys Thr Arg Leu Leu His Ile Ser Leu Asp Ser
115 120 125
Met Ile Glu Ala Leu Tyr Ala Ser Ser Gln Glu Gln Leu Asp Lys Gly

```
    130                 135                 140
Leu Glu Asp Gly Thr Val His Leu Pro Pro Val Phe Thr Arg
145                 150                 155

<210> 22559
<211> 290
<212> PRT
<213> A.fumigatus

<400> 22559
Arg His Thr Thr Ala Ala Ala Glu Glu Ala Cys Ala Leu Leu Asp Gly
1               5                   10                  15
Lys Pro Asn Ser Gln Asn Asp Ala Asn Met Ile Val Glu Leu Tyr His
            20                  25                  30
Gly Pro Val Pro Ser Ala Leu Asn Pro Gln Arg Arg Asn Thr Ile Asp
        35                  40                  45
His Thr Ala Thr Arg Asn Met Leu Gly Asn Gly His Leu Ala Arg Ser
    50                  55                  60
Ser Arg Phe Asn Gly Thr Phe Gln Ser Leu Glu Lys Leu Ala Ala Pro
65                  70                  75                  80
Asn Ser Ser Leu Gln Ser Asn Gly Asp Ala Leu Thr Ser Asn Ser Glu
                85                  90                  95
Ser Gly Ser Arg Leu Gln Ser Ile Phe Ser Pro Gln Ser Pro Ile Gly
            100                 105                 110
Asn Gly Val His Asp Leu Pro Arg Val Ser Gly Lys Ser Met Ile Asp
        115                 120                 125
Gln Asp Pro Asp Glu Asp Thr Gly Glu Leu Leu Lys Asp Pro Val Gly
    130                 135                 140
Tyr Ala Glu Asn Gly His Ser Ser Ser Ala Thr Leu Pro Arg Arg Ser
145                 150                 155                 160
Thr Asn Pro Gln Tyr Pro Thr Asn Arg Phe Gly Asn Leu Ser Leu Ser
                165                 170                 175
Thr Asn Met Thr Ser Pro Pro Leu His Asn Tyr Ala Pro Gly Gly Ser
            180                 185                 190
Gly Arg Met Gly Val Pro Thr Pro Ser Ser Ala Phe Pro Gln Ala Ile
        195                 200                 205
Asn Gly Asn Thr Met Met Gly Gly His Gly Tyr Pro Tyr Gly Ser Gln
    210                 215                 220
His Thr Pro Arg His Ser Leu Pro Ala Ala Asn Pro Asn Asp Leu Asn
225                 230                 235                 240
Pro Pro Cys Asn Thr Leu Tyr Val Gly Asn Leu Pro Pro Asp Thr Ser
                245                 250                 255
Glu Glu Glu Leu Lys Ala Leu Phe Ser Lys Gln Arg Gly Tyr Lys Arg
            260                 265                 270
Leu Cys Phe Arg Asn Lys His Asn Gly Pro Met Cys Phe Val Glu Phe
        275                 280                 285
Asp Glu
    290

<210> 22560
<211> 124
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
```

<222> (68),(95)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22560
Phe Pro Arg Thr Thr Thr Lys Met Ala Thr Thr Pro Asn Arg Pro Ala
1 5 10 15
Gln Arg Ser Ser Ser Gln Lys Lys Arg Thr Ser Phe Asn Val Pro Leu
20 25 30
Arg Arg Gly Glu Val Arg His His Phe Arg Ile Phe Ser Ile Leu Lys
35 40 45
Leu Lys Val Ala Asp Ile Ser Thr Leu Leu Gly Ile Asp Leu Thr Thr
50 55 60
Thr Val Ala Xaa Leu Asp Ala Thr Ala Ser Asp Ile Val Ala Gln Gln
65 70 75 80
Arg Asp Ala Leu Ile Gln Arg Lys Glu Leu Ala Gln Lys Thr Xaa Asp
85 90 95
Phe Arg Lys Leu Asp Asp Ala Ser Lys Leu Ala Glu Tyr Lys Gly Leu
100 105 110
Leu Lys Trp Leu Gly Pro Trp Pro Phe Arg Pro Gly
115 120

<210> 22561
<211> 261
<212> PRT
<213> A.fumigatus

<400> 22561
Lys Ile Pro Lys Phe Lys Ser Ser Gln Thr Cys Leu Arg Ile Phe Leu
1 5 10 15
Asp Thr Lys Phe Ser Glu Lys Val Arg Thr Pro Ser Val Met Glu Ala
20 25 30
Tyr Ala Lys Glu Asn Trp Val Gln His Leu His Ser Val Gln Pro Glu
35 40 45
Glu Thr Ser Leu Glu Asp Lys Lys Thr Ile Ala Ser Met Leu Ala Arg
50 55 60
Met Phe Gly Thr Glu Glu Asn Met Ala Arg Trp Leu Gly Met Arg Ser
65 70 75 80
Trp Val Ser Thr Ser Asp Asn Leu Lys Ala Val Gln Arg Trp Trp Asn
85 90 95
Asp Ala Glu Ile Val Glu Ser Leu Ala Val Lys Glu Ala Glu Phe Val
100 105 110
Leu Ser Val Lys Glu Lys Pro Val Glu Thr Phe Arg Pro Ile Ala Glu
115 120 125
Leu Cys Thr Lys Lys Trp Leu Ala Glu Asp Asp Trp Val Pro Thr Ala
130 135 140
Pro Ala Ala Met Ile Ile Ser Tyr Leu Lys Cys Gln Arg Gly Ile Asp
145 150 155 160
Glu Asp Phe Met Glu His Phe Ala Leu Thr Ala Ala Glu Val Val Glu
165 170 175
Ala Ala Glu Trp Gly Gln Ile Glu Lys Thr Ser Arg Trp Tyr Gln Arg
180 185 190
Val Ala Val Val Leu Arg Tyr Thr Gly His Ile Asp Glu Ala Leu Asp
195 200 205
Tyr Phe Thr Lys Ala Leu Ala Leu Asp Pro Asp Asn Trp Ile Ala Lys
210 215 220
Ala Gly Met Ala Ile Ala His Leu Ser Arg Lys Glu Trp Ala Thr Ala

225 230 235 240
Leu Val Leu Asp Glu Glu Ile Glu Ala Ile Leu Ser Ser Pro Arg Gly
245 250 255
Leu Glu Gly Pro Arg
260

<210> 22562
<211> 85
<212> PRT
<213> A.fumigatus

<400> 22562
Leu Ser Gly Ile Val His Cys Ala Ser Ser Thr Gly Glu Cys Thr Gly
1 5 10 15
Pro Lys Cys His Lys Val Ser Cys Thr Gly Pro Asn Cys Gln Asn Gly
20 25 30
Val Cys Thr Gly Glu Gly Cys Glu Ser Glu Asp Asp Asp Cys Glu Ala
35 40 45
Lys Glu Ala Glu Val Cys Thr Glu Thr Val Tyr Ser Ser Ile Ile Thr
50 55 60
Pro Ala Ser Thr Tyr Thr Thr Glu Ile Tyr Val Phe Thr Thr Arg Leu
65 70 75 80
Glu Gly His Ala Leu
85

<210> 22563
<211> 70
<212> PRT
<213> A.fumigatus

<400> 22563
Asn Ser Ala Gly Gln Tyr Tyr Thr Leu Leu His Phe Gln Tyr Thr Cys
1 5 10 15
Lys Leu Leu Thr Ala Glu Gln Ser Cys Leu Arg Cys Gln Lys Ser Asn
20 25 30
Arg Thr Cys Ala Gly Tyr Gln Glu Gln Ala Ser Lys Thr Leu Ile Phe
35 40 45
Gln Arg Asn Tyr Thr Gln Ser Ala Ser Ala Asn Val Phe Thr Thr Gly
50 55 60
Leu Glu Gly Ala Val Arg
65 70

<210> 22564
<211> 207
<212> PRT
<213> A.fumigatus

<400> 22564
Thr Arg Val Leu Leu Ala Pro Ala Leu Arg Pro Gly Ile Ser His Val
1 5 10 15
Ile Leu Leu Asn Lys Phe Thr Gln Ser Pro Val Leu Pro Leu Gly Pro
20 25 30
Thr Ile Asn Tyr Leu Ser Thr Ile Arg Leu Arg Thr Leu Asp Gly Arg
35 40 45
Tyr Val Ala Val Asp Ser Asn Pro Pro Gly Asn Thr Asn Leu Ile Leu
50 55 60

```
Leu Thr Leu Val Asn Ala Pro Thr Asp Asn Thr Arg Phe Leu Ile Arg
65                  70                  75                  80
His Tyr Arg Arg Asp Ser Ser Trp Glu Trp Pro Phe Ser Gly Asn Leu
                85                  90                  95
Asp Ala Asp Ser Cys Asn Ala Asn Gly Asn Val Arg Leu Val His Val
            100                 105                 110
Asp Ser Arg Val Gly Asp Asp Thr Val Val Ser Cys Ala Lys Asn Ser
        115                 120                 125
Gly Gly Phe Met Tyr Trp Gly Val Gly Trp Gly Pro Ala Asn Asp Trp
    130                 135                 140
Glu Thr Phe Leu Pro Tyr Asp Pro Ala Asn Pro Arg Ser Ser Ala Lys
145                 150                 155                 160
Ile Leu Asp Gly Ser Val Ile Val Leu Arg Thr Leu Trp His Met Tyr
                165                 170                 175
Trp Lys Ala Gly Asn Asp Glu Asn Leu Tyr Thr Arg Leu Asn Ala Ser
            180                 185                 190
Thr Gly Ala Ile Glu Asp Ala Thr Arg Phe Val Val Lys Lys Ala
        195                 200                 205
```

<210> 22565
<211> 210
<212> PRT
<213> A.fumigatus

<400> 22565

```
Arg Glu Ser Asn Leu Gly His Tyr Met Lys Leu Pro Pro Arg Val Thr
1               5                   10                  15
Phe Ala Gly Gln Leu Val Ala Cys Leu Trp Ser Ser Ile Val Gln Ile
            20                  25                  30
Cys Thr Met Asn Trp Ala Leu Gly Ala Ile Asn Asn Val Cys Asp Pro
        35                  40                  45
Glu Gln Ala Asn His Tyr Thr Cys Pro Asn Gly Arg Val Phe Phe Asn
    50                  55                  60
Ala Ser Ile Ile Trp Gly Val Ile Gly Pro Ser Arg Met Phe Ser Pro
65                  70                  75                  80
Gly Gln Ile Tyr Ser Gly Leu Met Trp Phe Trp Leu Ala Gly Ala Ile
                85                  90                  95
Leu Pro Val Val Ile Tyr Leu Gly Ala Arg Tyr Trp Pro Lys Ser Pro
            100                 105                 110
Ile Arg Phe Leu Ser Ala Pro Val Ile Phe Gly Gly Ala Gly Leu Ile
        115                 120                 125
Pro Pro Ala Thr Pro Leu Asn Tyr Leu Ser Trp Gly Ile Val Gly Leu
    130                 135                 140
Val Phe Asn Arg His Ile Arg Asn Arg Phe Arg Gly Trp Trp Met His
145                 150                 155                 160
Tyr Thr Tyr Val Leu Ser Ala Gly Leu Asp Val Gly Leu Ala Leu Cys
                165                 170                 175
Thr Ile Leu Ile Phe Leu Thr Leu Gln Leu Thr Asn Thr Asp Phe Pro
            180                 185                 190
Ser Cys Trp Val Phe Thr Ser Gly Leu Ala Gly Thr Ala Pro Ile Ser
        195                 200                 205
Thr Pro
    210
```

<210> 22566
<211> 173

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (47),(87),(92)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22566
Phe Leu Pro Val Pro Pro Gly Trp Leu Leu Thr Tyr Gly Leu Ser Phe
1 5 10 15
Ala Thr Ile Ile Gly Gly Ala His Ser Tyr Trp Gly Ser Pro Met Glu
20 25 30
Lys Lys Leu Trp Ala Gly Phe Arg Lys Phe Gly Lys Arg Lys Xaa Asn
35 40 45
Val His Ala Arg Leu Met Ser Arg Phe Lys Thr Val Pro Leu Trp Trp
50 55 60
Tyr Ala Val Leu Ser Leu Val Met Ile Gly Met Gly Leu Gly Val Val
65 70 75 80
Leu Gly Tyr Pro Thr His Xaa Ser Trp Trp Ala Xaa Phe Val Ser Leu
85 90 95
Ile Ile Ala Ala Val Trp Phe Val Pro Ile Gly Leu Val Gln Ala Thr
100 105 110
Thr Asn Ile Gln Ile Gly Leu Asn Val Ile Thr Glu Phe Ile Ile Gly
115 120 125
Tyr Met Gln Pro Gly Arg Pro Met Ala Met Met Leu Phe Lys Thr Phe
130 135 140
Gly Tyr Ile Thr Met Ser Gln Gly Leu Tyr Phe Cys Gln Asp Met Lys
145 150 155 160
Leu Gly Met Ser Leu Ile Asn Thr Glu Glu Ser Ser Asn
165 170

<210> 22567
<211> 231
<212> PRT
<213> A.fumigatus

<400> 22567
Arg Gln Glu Thr Val Ser Gly Lys Pro Asp Ile Ile Ser Ser Gln Gln
1 5 10 15
Pro Lys Ser Thr Leu Thr Pro Lys Glu Ser Ile Phe Thr Tyr Thr Asn
20 25 30
Pro Phe Glu Gln Leu Ala Ala Ala Ser Pro Arg Lys Ala Ser Pro Gln
35 40 45
Ile Lys Ser Arg Ser Ala Ser Pro Ala Val Glu Leu Thr Gln Arg Gln
50 55 60
Lys Ile Asn Val Thr Ala Thr Ala Asp Val Ala Pro Val Ser Gln Pro
65 70 75 80
Ala Ala Ser Ser Ala Val Gln Arg Pro Ser Ser Pro Ile Leu Asp Ala
85 90 95
Glu Gln Arg Glu Ala Val Asn Gln Val Val Gly Lys Leu Val Asp Gln
100 105 110
Ile Val Gly Arg Asp Val Ala Glu Val Arg Asp Lys Thr Ala Lys Glu
115 120 125
Glu Glu Ser Leu Pro Val Arg Thr Asp Lys Asp Glu Gly Thr Lys Ala
130 135 140

```
Ala Ile Ser Ser Val Thr Ser His Leu Arg Asp Thr Thr Ala Glu Ala
145                 150                 155                 160
Lys Gln Ala Ala Lys Ile Glu Ala Ala Ala Ala Gln Asp Pro Ala Ala
                165                 170                 175
Gly Ser Pro Ala Ala Ile Asn Glu Thr Thr Asn Gly Glu Ser Gly Glu
            180                 185                 190
Ala Leu Ala Asp Ser Trp Glu Ser Ala Glu Asp Ser Ala Ala Lys Glu
        195                 200                 205
Glu Glu Arg Val Val Pro Val Tyr Asn Phe Pro Leu Lys Pro Phe Ile
    210                 215                 220
Ser Ile Ser Leu Lys Gly Asn
225                 230

<210> 22568
<211> 184
<212> PRT
<213> A.fumigatus

<400> 22568
Phe Leu Ile Pro Asn Asn Ala Cys Lys Val Gly Val Arg Glu Asn Val
1               5                   10                  15
Ser Lys Ile Asp Phe Tyr Gly Ile Ile Ala Ser Ser Ile Gly Ile Ile
            20                  25                  30
Phe Leu Leu Ile Pro Ile Ser Gly Gly Gly Ser Tyr Phe Gln Trp Asn
        35                  40                  45
Ser Ala Met Val Ile Ser Met Leu Val Ile Gly Ala Cys Ser Leu Val
    50                  55                  60
Ala Phe Val Phe Ile Glu Trp Lys Val Ala Ser Leu Pro Met Leu Pro
65                  70                  75                  80
Gly Ala Leu Gln Leu Val Pro Phe Val Asn Ser Arg Gly Ala Asp Leu
                85                  90                  95
Trp Thr Val Val Phe Phe Lys Asn Lys Val Leu Cys Ala Leu Phe Leu
            100                 105                 110
Gln Ser Phe Leu Leu Gly Ala Val Tyr Gln Ser Tyr Leu Tyr Tyr Leu
        115                 120                 125
Pro Leu Tyr Tyr Gln Asn Ala Arg Gly Trp Ser Pro Ile Val Ser Ala
    130                 135                 140
Ala Met Thr Ala Pro Met Val Gly Cys Gln Ala Leu Ala Ser Ile Ala
145                 150                 155                 160
Ser Gly Gln Tyr Ile Ser Arg Thr Lys Arg Tyr Gly Glu Val Ile Trp
                165                 170                 175
Ala Gly Phe Gly Leu Trp Thr Leu
            180

<210> 22569
<211> 240
<212> PRT
<213> A.fumigatus

<400> 22569
Arg Thr Phe Glu Glu Ile Ile Tyr Asp Lys Ala Ile Phe Lys Thr Gln
1               5                   10                  15
Leu Ala Val Arg Val Val Asp Lys Lys Asn Pro Ile Arg Trp Ala Ser
            20                  25                  30
Lys Lys Leu Asn Glu Tyr Leu Phe Pro Ala Lys Pro Val Lys Gln His
        35                  40                  45
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```
Asp Ile Ser Glu Phe Val Gly Lys Asp Pro His Val Leu Asp Lys Ile
    50                  55                  60
Ile Lys Glu Asp Asn Gly Glu Glu Arg Ala Ile Arg Lys Ile Ala Leu
65                  70                  75                  80
Thr Glu Thr Phe Gln Arg Glu Asp Asn Asp Lys Leu Thr Glu Glu Glu
                85                  90                  95
Arg Lys Asp Val Gln Gln Glu Leu Asp Glu Glu Arg Leu Arg Arg Thr
            100                 105                 110
Asp Pro Glu Ala Tyr Gln Arg Leu Ile Phe Glu Arg Gln Arg Lys Glu
        115                 120                 125
Glu Phe Val Arg Asp Gly Gly Arg Arg Arg Glu Ala Glu Arg Leu Ala
    130                 135                 140
Ile Met Val Pro Met Ser Gln Pro Gln Gly Gln Ser Trp Pro Gly Arg
145                 150                 155                 160
Pro Val Leu Pro Ile His Tyr Ala Ala Ala Gln Gln Ala Arg Val Pro
                165                 170                 175
Ser Ser Gln Val Pro Pro Pro Ser Thr Ala Pro Ser Arg Pro Arg Asp
            180                 185                 190
Trp Gly His Arg Val His Thr Tyr Asp Asp Gly Pro Phe Thr His Ala
        195                 200                 205
Arg Asn Arg Pro Thr Ser Pro Arg Ser Gln Ser Thr Ser Asn Ala Glu
    210                 215                 220
Leu Ala Val Ser Gln Asn Gly Ala Val Asp Gly Thr Gln Pro Gly Leu
225                 230                 235                 240

<210> 22570
<211> 102
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (39)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22570
Glu Ser Val Leu Ile Leu Asn Pro Cys Ser Cys Leu Gly Phe Asp Ile
1               5                   10                  15
Pro Gly Ala Asn Arg Val Val Ile Phe Asp Leu Ser Phe Asn Pro Ile
            20                  25                  30
Trp Lys Asp Lys Val Val Xaa Arg Ala Tyr Arg Leu Gly Gln Gln Lys
        35                  40                  45
Pro Val Phe Val Tyr Arg Phe Met Val Glu Glu Pro Ser Arg Arg Leu
    50                  55                  60
Ser Thr Thr Arg Pro Ser Leu Arg His Asn Leu Pro Phe Gly Leu Trp
65                  70                  75                  80
Thr Lys Arg Thr Leu Phe Ala Gly Arg Leu Arg Ser Ser Thr Ser Thr
                85                  90                  95
Ser Ser Pro Leu Asn Arg
            100

<210> 22571
<211> 202
<212> PRT
<213> A.fumigatus
```

<400> 22571
Arg Arg Leu Met Phe Gly Gly Lys Ala Ile Leu Tyr Asp Gly Ser Pro
1 5 10 15
Phe Leu Pro Asp Ala Lys Phe Leu Ile Glu Leu Leu Ser Lys Tyr Lys
20 25 30
Val Thr His Phe Gly Thr Ser Pro Arg Tyr Leu His Glu Leu Arg Lys
35 40 45
Asn Asn Ile Arg Pro Lys Asp Ile Ala Asp Leu Arg Ala Leu Arg Ile
50 55 60
Val Thr Ser Thr Gly Met Val Leu Ser Glu Ser Leu Phe Glu Trp Phe
65 70 75 80
Tyr Asp Glu Gly Phe Pro Ser Gln Thr Gln Leu Ala Asn Ile Ser Gly
85 90 95
Gly Thr Asp Leu Ala Ala Cys Phe Gly Leu Glu Asn Pro Leu Thr Pro
100 105 110
Leu Tyr Val Gly Gly Cys Gln Gly Pro Ala Leu Gly Ile Pro Ile Ala
115 120 125
Val Phe Asp Gln Ala Asp Glu Gly Ala Thr Ala Val Lys Gly Thr Ala
130 135 140
Val Pro Asp Gly Val Pro Gly Glu Leu Val Ala Thr Ala Ala Phe Pro
145 150 155 160
Thr Met Pro Val Lys Phe Leu Gly Asp Asp Gly Pro Gln Lys Tyr Phe
165 170 175
Asp Ser Tyr Phe Ala Arg Phe Asp Ser Lys Ser Pro Thr Leu Pro Thr
180 185 190
Leu Pro Met His Leu Pro Ser Thr Asn Leu
195 200

<210> 22572
<211> 317
<212> PRT
<213> A.fumigatus

<400> 22572
Phe Pro Cys Arg Glu Thr Leu Trp Pro Asp Pro Ser Pro Pro Val Glu
1 5 10 15
Lys Thr Thr Thr Pro Ala Pro Ala Pro Ala Pro Val Pro Ala Pro Ala
20 25 30
Pro Ala Pro Ala Glu Glu Gln Gln Pro Ala Ala Glu Pro Ala Ala Gly
35 40 45
His Lys Ala Ala Glu Ser Val Pro Thr Pro Ala Ser Val Pro Thr Ser
50 55 60
Ala Pro Ala Pro Ala Ala Ala Asn Ala Pro Ala Pro Val Pro Val Pro
65 70 75 80
Val Pro Val Pro Ile Pro Val Glu Lys Gly Pro Glu Pro Val Leu Pro
85 90 95
Lys Gln Pro Ala Glu Val Pro Val Thr Pro Ser Thr Ser His Ile Thr
100 105 110
Pro Pro Lys Asp Gly Leu Thr Lys Thr Asn Leu Glu Gln Ile Pro Asp
115 120 125
Val Ser Pro Pro Ala Pro Thr Ala Thr Ala Ala Ser Thr Val Gly Ser
130 135 140
Thr Leu Asp Ala Asn Ser Ile Ala Ala Ala Ser Thr Pro Ala Arg Gln
145 150 155 160
Pro Ala Gln Ala Ala Phe Pro Ser Ser Ala Phe Lys Ser Gly Ala Arg
165 170 175

```
Ala Pro Gly Ser Gln Arg Arg Val Met Glu Gln Gln Glu Ala Val Val
            180                 185                 190
Met Pro Gly Asn His Ala Val Asp Arg Ala Ala Val Gln Phe Gly Ser
        195                 200                 205
Met Gly Leu Asn Gly Asp Ala Ala Asp Val Asp Ile Asp Glu Asn Arg
    210                 215                 220
Glu Asn Ala Glu Thr Arg Ala Gln Pro Pro Gln His Ser Pro Val Ala
225                 230                 235                 240
Pro Arg Ala Ser Leu Pro Pro Ser Thr Gln Ala Gln Pro Ser Thr Glu
                245                 250                 255
Ala Pro Pro Val Ser Arg Pro Ala Pro Gly Leu Pro Pro Val Pro Gln
            260                 265                 270
Val Ser Ala Ala Asp Ser Ser Phe Thr Asp Phe Ala Arg Tyr Thr Glu
        275                 280                 285
Ala Gln Lys Pro Tyr Asp Pro Phe Ser Gln Gln Val Ser Gln Pro Gln
    290                 295                 300
Pro Gln Val Gln Glu Pro Phe Ala Asn Gln Ala Pro Val
305                 310                 315
```

<210> 22573
<211> 249
<212> PRT
<213> A.fumigatus

<400> 22573

```
Lys Arg Tyr Val Arg Tyr Phe Ser Gly His Thr Asp Lys Val Thr Cys
1                   5                   10                  15
Leu Ala Leu Ser Pro Gly Ser Asp Ala Phe Ile Ser Cys Ser Lys Asp
            20                  25                  30
Asp Thr Val Ala Leu Trp Asp Leu Ser Ser Arg Asn Ala Gln Gly Lys
        35                  40                  45
Leu Lys Leu Ala Thr Pro Tyr Leu Val Ala Phe Asp Pro Ser Ala Ser
    50                  55                  60
Val Ile Ala Ile Ala Ser Gln Ser Thr Ser Ser Val Leu Leu Tyr Asp
65                  70                  75                  80
Phe Arg Asn Tyr Asp Lys Ala Pro Phe Ser Thr Phe Asp Leu Ala Pro
                85                  90                  95
Tyr Glu Glu Arg Tyr Thr Pro Ser Thr Arg Gly Arg Ala Trp Thr Arg
            100                 105                 110
Leu Glu Phe Ser Asn Asp Gly Lys His Leu Met Val Gly Thr Asp Phe
        115                 120                 125
His Gly His Phe Ile Leu Asp Ala Phe Glu Gly Asn Ile Lys Ala Phe
    130                 135                 140
Leu Leu Gly Lys Asn Gly Ser Pro Gly Arg Ala Ala Pro Val Ser Thr
145                 150                 155                 160
Thr Gly Lys Pro Leu Gly Gln Gly Asp Ala Cys Phe Thr Pro Asp Gly
                165                 170                 175
Arg Tyr Val Leu Gly Gly Ser Gly Asp Gln Ser Asp Val Leu Val Trp
            180                 185                 190
Asp Met Gln Gln Thr Pro Asp Ala Asn Ser Leu Leu Gln Pro Met Thr
        195                 200                 205
Lys Leu Pro Asn Arg Gly Arg Thr Ala Val Leu Glu Tyr Asn Pro Arg
    210                 215                 220
Tyr Asn Met Leu Ala Thr Ala Asp Lys Glu Val Val Phe Trp Leu Pro
225                 230                 235                 240
Lys Lys Asn Ser Arg Ser Gly Glu Lys
```

245

<210> 22574
<211> 59
<212> PRT
<213> A.fumigatus

<400> 22574
Asn Asn Ser Trp His Pro Trp Gly Gln Arg Gly Pro Tyr Ser Val Pro
1 5 10 15
Gln Leu Thr Gln Val Gly Lys Thr Ile Ile Leu Gly Thr Asp Cys Gln
20 25 30
Ala Trp Asn Lys Trp Glu Thr Gln Pro Pro Val Ile Ile Val Lys Gly
35 40 45
Pro Thr Ala Lys Thr Asp Pro Gln Cys Ile Asp
50 55

<210> 22575
<211> 265
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (258),(259)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22575
Asn Leu Lys Arg Gly Ser Gly Tyr Ser Arg Gly Gln Tyr Val Glu Pro
1 5 10 15
Ser Ser Gly Lys Val Leu Val Trp Ser Ser Tyr Arg Lys Asn Gln Tyr
20 25 30
Gly Gly Thr Ser Gly Gly Leu Thr Gln Thr Ala Met Trp Asp Pro Asn
35 40 45
Thr Gly Glu Val Thr Gln Arg Glu Val Ser Asp Thr Glu His Asp Met
50 55 60
Phe Cys Ser Gly Ile Ser Met Asp Met Asn Gly Arg Val Ile Val Thr
65 70 75 80
Gly Gly Asn Asp Asp Ser Ile Thr Ser Ile Tyr Asp Ser Phe Ser Asp
85 90 95
Thr Trp His Gly Gly Ala Met Met Asn Ile Glu Arg Gly Tyr Gln Ala
100 105 110
Ser Thr Ile Leu Ser Asp Gly Asn Met Phe Val Ile Gly Gly Ser Trp
115 120 125
Asn Gly Pro Gln Leu Arg Asn Lys Asn Ser Glu Val Tyr Asn Val Val
130 135 140
Ala Asp Thr Trp Thr Glu Leu Pro Asn Ala Gly Ser Ser Tyr Met Leu
145 150 155 160
Thr Asn Asp Asn Leu Gly Pro Tyr His Gln Asp Asn His Gly Trp Ile
165 170 175
Phe Gly Trp Lys Asn Leu Ser Ile Phe Gln Ala Gly Pro Ser Arg Gln
180 185 190
Met His Trp Tyr Ser Ala His Gly Gln Gly Ser Val Ala Asp Ala Gly
195 200 205
Lys Arg Asn Ser Asp Asn Asp Gln Met Cys Gly Asn Ala Val Met Phe
210 215 220

```
Asp Ala Ala Lys Gly Lys Ile Leu Thr Phe Gly Gly Ser Pro Asn Tyr
225                 230                 235                 240
Glu Asp Ser Thr Ala Thr Asn Asn Ala Ser Leu Ile Ile Phe Val Phe
                245                 250                 255
Thr Xaa Xaa Gly Ser Lys Leu Ser Arg
            260                 265
```

<210> 22576
<211> 238
<212> PRT
<213> A.fumigatus

<400> 22576

```
Ser Ala Cys Val Phe Val Gly His Arg Gln Thr Leu Gly His Phe Lys
1               5                   10                  15
Trp Ala Ala Ala Asn Val Thr Arg Leu Thr Cys Pro Leu Ser Leu His
            20                  25                  30
Ala Glu Ile Phe Asn Asp Asn Ala Lys Lys Lys Gly His Arg Leu Arg
        35                  40                  45
Pro Ser His Arg Val Glu Leu Cys Leu Leu Arg Thr His Thr Gly Lys
    50                  55                  60
Trp Gln Val Thr Thr Val Asp Asn Leu Asp Met Gly Val Ile Pro Pro
65                  70                  75                  80
Glu Glu Pro Ile Asp Leu Phe Arg Gly Trp Pro Asn Pro Ala Leu Leu
                85                  90                  95
Pro Thr Ser Ala Leu Ala Gln Ala Ser Ala Thr Val Leu Ser Thr Pro
            100                 105                 110
Ser Ile Arg Thr Pro Ala Leu Leu Tyr Gly Pro Asp Asp Gly Tyr Leu
        115                 120                 125
Pro Leu Arg Lys Ser Val Ala Glu Trp Leu Thr His Phe Tyr Lys Pro
    130                 135                 140
Arg Asp Pro Val Gly Phe Asp Arg Ile Cys Ile Thr Gly Gly Ala Ser
145                 150                 155                 160
Gln Asn Leu Ala Cys Ile Phe Gln Val Phe Thr Asp Pro Ser Tyr Thr
                165                 170                 175
Arg His Val Trp Met Val Ala Pro Ala Tyr His Leu Ala Ser Arg Met
            180                 185                 190
Val Asp Asp Ala Gly Phe Ala Gly Arg Val Arg Ala Val Pro Gln Asp
        195                 200                 205
Asp Ala Gly Leu Asp Leu Asp Tyr Leu Arg Arg Glu Met Glu Ala Ala
    210                 215                 220
Glu Arg Lys Ala Asn Glu Glu Gln Arg Phe Glu Pro Val Arg
225                 230                 235
```

<210> 22577
<211> 203
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22577

```
Pro Pro Arg Lys Ala Asn Phe Glu Leu Val Phe Arg Thr Glu Gly Xaa
```

```
1               5                   10                  15
Leu Ser Ala Val Arg Val Leu Leu Met Asn Phe Ser Arg Asn Tyr Val
            20                  25                  30
Gly Leu Gln Ser Ile Thr Val Thr Val Glu Asn Ile Ser Thr Arg Tyr
        35                  40                  45
Pro Gln Leu Ala Ala Leu Ile Gly Arg Gly Gly Phe Ser Ser Leu Gly
    50                  55                  60
Leu Arg Asn Gly Val Met Thr Gln Arg Gly Pro Arg Asp Ser Ala Arg
65                  70                  75                  80
Val Tyr Val Phe Phe Thr Ala Ala Asp Gly Phe Thr Gly Glu Gly Lys
                85                  90                  95
Arg Ala Ala Ser Val Thr Lys Glu Gln Leu Leu Ser Asp Glu Ala Leu
            100                 105                 110
Leu Gly Arg Phe Gly Asp Ser Val Lys Glu Leu Val Ala Val Gly Val
        115                 120                 125
Ala Cys Asp Lys Thr Ala Asp Leu Pro Glu Gly Val Val Glu Val Lys
    130                 135                 140
Pro Leu Tyr Met Leu Pro Val Gly Ala Ala Trp Ala His Lys Pro Gly
145                 150                 155                 160
Val Thr Ile Val Gly Asp Ala Ala His Leu Met Cys Pro Trp Ala Gly
                165                 170                 175
Glu Gly Val Asn Leu Ala Met Cys Asp Ala Leu Met Leu Ala Lys Val
            180                 185                 190
Ile Val Lys Val Trp Glu Lys Trp Thr Gly Cys
        195                 200
```

<210> 22578
<211> 206
<212> PRT
<213> A.fumigatus

<400> 22578

```
Thr Asn Asp Gly Asn Thr Met Leu Lys Asp Met Ser Val Met His Pro
1               5                   10                  15
Ala Ala Arg Met Leu Val Asp Leu Ser Ala Ala Gln Asp Val Glu Ala
            20                  25                  30
Gly Asp Gly Thr Thr Ser Val Val Val Ile Ala Gly Ser Leu Leu Gly
        35                  40                  45
Ala Ala Glu Arg Leu Leu Gly Lys Gly Ile His Pro Thr Ile Ile Ser
    50                  55                  60
Glu Ser Phe Gln Arg Ala Ala Ala Ala Ala Val Glu Ile Leu Gln Asn
65                  70                  75                  80
Met Ser Arg Pro Ile Asn Leu Met Asp Arg Ala Thr Leu Leu Gln Ala
                85                  90                  95
Ala Ser Thr Ser Leu Ser Ser Lys Ile Val Ser Gln His Ser Gly Leu
            100                 105                 110
Leu Gly Pro Met Ala Val Asp Ser Val Leu Lys Val Ile Asn Pro Lys
        115                 120                 125
Thr Ala Glu Asn Val Asp Leu Arg Asn Ile Arg Ile Val Lys Lys Val
    130                 135                 140
Gly Gly Thr Ile Glu Asp Ser Glu Met Val Asp Gly Leu Val Leu Asn
145                 150                 155                 160
Gln Pro Val Ile Lys Ser Ser Gly Gly Pro Thr Arg Ile Glu Lys Ala
                165                 170                 175
Arg Ile Gly Leu Ile Gln Phe Gln Leu Ser Pro Pro Lys Pro Asp Val
            180                 185                 190
```

```
Arg Val Ser Thr Ser Lys Ala Arg Tyr Arg Tyr Thr Gly Cys
        195                 200                 205

<210> 22579
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22579
Val Ser Gly Gly Asn Asp Asn Gln Phe Met Val Gly Asp Gln Leu Asn
1               5                   10                  15
Gly Thr Pro Phe Ile Arg Phe Ser Asp His Thr Ala Ala Val Lys Ala
            20                  25                  30
Ile Ala Trp Ser Pro His Gln His Leu Leu Leu Ala Ser Gly Gly Gly
        35                  40                  45
Thr Ala Asp Arg Thr Ile Lys Phe Trp Asn Thr Ala Ile Gly Ser Leu
    50                  55                  60
Ile Lys Gly Ser
65

<210> 22580
<211> 103
<212> PRT
<213> A.fumigatus

<400> 22580
Ser Arg Glu Val Asp Thr Gly Ser Gln Val Cys Asn Leu Ala Trp Ser
1               5                   10                  15
Lys Asn Ser Asp Glu Ile Ile Ser Thr His Gly Tyr Ser Gln Asn Gln
            20                  25                  30
Ile Val Ile Trp Lys Tyr Pro Arg Met Glu Gln Ile Val Ser Leu Thr
        35                  40                  45
Gly His Thr Phe Arg Val Leu Tyr Leu Ala Met Ser Pro Asp Gly Gln
    50                  55                  60
Thr Val Val Thr Gly Ala Gly Asp Glu Thr Leu Arg Phe Trp Lys Ile
65                  70                  75                  80
Phe Asn Lys Arg Ser Gly Arg Glu His Gly Arg Glu Ser Gly Lys Leu
                85                  90                  95
Ala Glu Trp Gly Thr Ile Arg
            100

<210> 22581
<211> 70
<212> PRT
<213> A.fumigatus

<400> 22581
Pro Gly Ser Ser Gly Arg Ala Ile Ile Gly Ala Gly Val Gly Ile Val
1               5                   10                  15
Lys Val Ala Ala Pro Val Leu Ile Gln Glu Ile Ser His Pro Arg Leu
            20                  25                  30
Arg Pro Ile Leu Gly Ser Cys Tyr Gln Thr Phe Ala Tyr Ile Gly Ile
        35                  40                  45
Phe Phe Ala Ala Ile Met Thr Cys Asp Ser Pro Arg Pro Thr Arg Ser
    50                  55                  60
Thr Phe Ser Ala Asn Pro
```

65 70

<210> 22582
<211> 149
<212> PRT
<213> A.fumigatus

<400> 22582
Arg Arg Pro Lys Ile Trp Ala Glu Thr Leu Asn Gly Thr Ile Val Gly
1 5 10 15
Gly Glu Lys Gly Gly Trp Tyr His Asp Asp Val Trp Asn Arg Lys Tyr
20 25 30
Leu Arg Gly Phe Lys Trp Ala Asp Arg Met Glu Gln Val Gln Arg Glu
35 40 45
Ser Ser Glu Arg Glu Ala Lys Arg Arg Ile Glu Asn Thr Arg Pro Arg
50 55 60
Lys Glu Asp Lys Val Phe Leu Gln Gly Val Glu Gln Gly Lys Phe Leu
65 70 75 80
Gln Gly Ile Gln Lys Lys Asn Glu Glu Lys Lys Lys Lys Lys Gly Glu
85 90 95
Thr Gly Thr Gly Glu Gly Ser Ala Asp Ala Ala Ala Asn Ala Ser Glu
100 105 110
Leu Lys Val Arg Arg Leu Phe Lys Gln Asn Glu Val Lys Met Gly Arg
115 120 125
Asp Lys Val Lys Asp Ile Ser Ala Leu Glu Asp Asp Ala Lys Arg Val
130 135 140
Leu Ser Lys Ile Phe
145

<210> 22583
<211> 166
<212> PRT
<213> A.fumigatus

<400> 22583
Gly Ile Leu His Val Ser Asp Ser Val Leu Gly Asn His Leu Thr Gly
1 5 10 15
Thr Asn Phe Asn Asp Pro Asn Phe Glu Ala Ile Glu Ala Ser Ser Gln
20 25 30
Tyr Ser Cys Thr Ile Pro Asp Val Val Leu Val Lys Lys His Tyr Ala
35 40 45
Arg Lys Lys Asn Lys Lys Thr Arg Asn Trp Arg Leu Lys Arg Met Ala
50 55 60
Arg Glu Tyr Glu Glu Glu Ala Leu Gln Gln Gln Gly Ala Ser Ile Ser
65 70 75 80
Arg Lys Gln Glu Gln Glu Arg Glu Arg Met Glu Ala Asp Phe Glu Met
85 90 95
Phe Leu Arg Asp Val Glu Glu Asp Gln Glu Leu Arg Ser Thr Leu Gln
100 105 110
Leu Tyr Lys Asn Lys Asn Ala Arg Pro Asn Asn Arg Met Gln Val Glu
115 120 125
Gly Gly Ala Gly Gly Met Glu Met Asp Glu Asp Glu Ser Asp Asp Asp
130 135 140
Ala Pro Lys Ile Ser Met Glu Glu Leu Leu Asp Asp Phe Asp Glu Leu
145 150 155 160
Asn Met Asp Asp Glu Glu

165

<210> 22584
<211> 310
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(21),(22),(23),(24),(25),(26),(27),(28),(29),(30),(31),(33),(34),(35),(36),(37),(38),(39),(41),(42),(43),(44),(47),(48),(50),(51),(53),(54),(55),(56),(58),(64),(85),(97),(101),(124),(166),(205),(207),(210),(230),(252),(253),(261),(280),(286)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22584
Thr Lys Arg Gln Lys Asn Lys Ala Lys Arg Asn Gln Lys Val Met Leu
1 5 10 15
Thr Ser Gly Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Phe Phe Xaa Xaa
35 40 45
Leu Xaa Xaa Pro Xaa Xaa Xaa Xaa Asn Xaa Pro Ser Phe Pro Pro Xaa
50 55 60
Ser Pro Phe Ser Phe Phe Leu Phe Phe Phe Pro Leu Phe Pro Phe Leu
65 70 75 80
Leu Ser Pro Leu Xaa Phe Leu Phe Pro Phe Leu Phe Phe Ser Leu Leu
85 90 95
Xaa Phe Leu Phe Xaa Pro Phe Leu Ser Leu Pro Pro Phe Phe Phe Ser
100 105 110
Leu Ser Leu Phe Pro Leu Leu Phe Phe Leu Pro Xaa Pro Ser Phe Ser
115 120 125
Pro Phe Leu Leu Phe Pro Phe Phe Leu Leu Phe Leu Leu Leu Leu Phe
130 135 140
Pro Ser Pro Pro Ser Phe Ser Leu Phe Pro Ser Leu Ser Pro Pro Leu
145 150 155 160
Phe Leu Phe Ser Leu Xaa Ser Phe Phe Phe Leu Leu Ser Phe Ser Leu
165 170 175
Pro Leu Phe Ser Pro Leu Phe Leu Ser Pro Phe Phe Pro Phe Pro Leu
180 185 190
Phe Phe Ser Pro Phe Pro Ser Pro Ser Phe Phe Phe Xaa Phe Xaa Pro
195 200 205
Leu Xaa Leu Leu Leu Ser Ser Ser Ser Phe Leu Phe Ser Pro Leu Phe
210 215 220
Leu Phe Ser Ser Pro Xaa Ser Phe Leu Phe Phe Phe Phe Leu Phe Phe
225 230 235 240
Leu Phe Ser Leu Phe Phe Phe Phe Phe Pro Ser Xaa Xaa Ser Phe Ser
245 250 255
Pro Phe Phe Pro Xaa Leu Ser Phe Ser Phe Phe Ser Ser Phe Leu Pro
260 265 270
Phe Phe Leu Leu Phe Phe Ser Xaa Leu Pro Ser Ser Phe Xaa Phe Ser
275 280 285
Leu Leu Phe Leu Ser Ser Ser Ser Pro Phe Leu Pro Phe Ser Phe Ser
290 295 300
Ser Ser Phe Ser Leu Pro

305 310

<210> 22585
<211> 296
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(6),(8),(9),(11),(12),(13),(14),(15),(17),(18),(19),(20),(21),(22),(23),(24),(26),(27),(28),(29),(30),(33),(34),(36),(38),(40),(41),(42),(44),(50),(71),(83),(87),(109),(152),(191),(193),(195),(216),(238),(239),(246),(266),(271),(272)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22585
Cys Ser Gln Ala Asp Xaa Asn Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Cys
1 5 10 15
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Xaa Xaa Xaa Xaa Xaa Phe Phe
20 25 30
Xaa Xaa Phe Xaa Phe Xaa Phe Xaa Xaa Xaa Ile Xaa Leu Pro Phe Pro
35 40 45
Leu Xaa Leu Pro Phe Leu Ser Phe Phe Phe Phe Ser Leu Phe Ser Pro
50 55 60
Phe Phe Phe Pro Leu Phe Xaa Phe Phe Ser Pro Phe Ser Phe Phe Pro
65 70 75 80
Ser Phe Xaa Ser Phe Ser Xaa Pro Phe Ser Leu Ser Leu Leu Ser Phe
85 90 95
Ser Leu Ser Leu Ser Ser Leu Ser Phe Phe Phe Phe Xaa Phe Leu Leu
100 105 110
Phe Leu Pro Phe Ser Ser Ser Leu Phe Phe Phe Phe Phe Phe Ser Phe
115 120 125
Phe Phe Pro Pro Pro Pro Leu Phe Pro Ser Phe Leu Pro Phe Pro Leu
130 135 140
Leu Ser Ser Ser Phe Leu Ser Xaa Leu Phe Phe Ser Phe Phe Pro Phe
145 150 155 160
Leu Phe Pro Ser Phe Leu Pro Phe Phe Ser Pro Pro Phe Phe Leu Phe
165 170 175
Pro Phe Ser Phe Leu Pro Phe Leu Pro Leu Pro Phe Ser Phe Xaa Ser
180 185 190
Xaa Pro Xaa Leu Phe Phe Phe Leu Leu Leu Leu Phe Phe Phe Leu Leu
195 200 205
Phe Phe Phe Ser Leu Pro Leu Xaa Pro Phe Ser Phe Ser Ser Ser Phe
210 215 220
Phe Phe Ser Ser Pro Phe Phe Phe Phe Phe Phe Pro Leu Xaa Xaa Leu
225 230 235 240
Phe Leu Pro Phe Phe Xaa Phe Phe Leu Ser Leu Ser Ser Leu Leu Ser
245 250 255
Ser Leu Phe Phe Phe Phe Ser Ser Leu Xaa Phe Leu Pro Leu Xaa Xaa
260 265 270
Ser Leu Ser Phe Ser Ser Leu Pro Pro Leu Leu Ser Ser Leu Phe Leu
275 280 285
Phe Pro Pro Leu Phe Leu Ser Pro
290 295

<210> 22586

<211> 303
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(14),(16),(17),(18),(19),(21),(22),(23),(24),(26),(27),(28),(29),(30),(31),(32),(34),(35),(36),(37),(40),(41),(42),(44),(46),(48),(49),(50),(51),(57),(78),(90),(95),(117),(159),(198),(200),(203),(223),(246),(254),(273),(274),(279),(280)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22586

Gly	Lys	Glu	Glu	Ser	Lys	Ser	Asn	Ala	His	Lys	Arg	Ile	Xaa	Thr	Xaa
1				5					10					15	
Xaa	Xaa	Xaa	Ile	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			20					25					30		
Ser	Xaa	Xaa	Xaa	Xaa	Leu	Phe	Xaa	Xaa	Xaa	Phe	Xaa	Ser	Xaa	Phe	Xaa
		35					40					45			
Xaa	Xaa	Xaa	Pro	Phe	Leu	Ser	Pro	Xaa	Phe	Ser	Leu	Phe	Phe	Leu	Ser
	50					55					60				
Phe	Phe	Phe	Pro	Ser	Phe	Pro	Leu	Ser	Ser	Phe	Pro	Ser	Xaa	Phe	Ser
65					70					75					80
Phe	Pro	Leu	Ser	Leu	Phe	Phe	Pro	Pro	Xaa	Phe	Pro	Phe	Pro	Xaa	Leu
			85					90					95		
Ser	Leu	Ser	Pro	Ser	Phe	Leu	Phe	Leu	Ser	Leu	Ser	Leu	Pro	Ser	Pro
			100					105					110		
Phe	Phe	Ser	Ser	Xaa	Ser	Phe	Phe	Phe	Ser	Leu	Ser	Pro	Leu	Pro	Phe
		115					120					125			
Phe	Ser	Ser	Phe	Ser	Ser	Pro	Ser	Phe	Ser	Leu	Pro	Pro	Leu	Phe	Phe
	130					135					140				
Pro	Leu	Ser	Phe	Pro	Phe	Pro	Ser	Ser	Leu	Pro	Leu	Phe	Ser	Xaa	Phe
145					150					155					160
Phe	Phe	Phe	Pro	Ser	Phe	Leu	Phe	Ser	Ser	Pro	Leu	Phe	Ser	Pro	Phe
			165					170					175		
Ser	Leu	Pro	Leu	Phe	Ser	Phe	Ser	Pro	Phe	Leu	Phe	Ser	Leu	Ser	Phe
		180					185					190			
Pro	Phe	Leu	Phe	Leu	Xaa	Phe	Xaa	Pro	Pro	Xaa	Ser	Ser	Ser	Phe	Phe
	195					200					205				
Phe	Phe	Phe	Ser	Phe	Phe	Ser	Ser	Phe	Ser	Phe	Leu	Phe	Pro	Xaa	Leu
210					215					220					
Leu	Ser	Leu	Phe	Leu	Leu	Pro	Phe	Phe	Ser	Leu	Leu	Pro	Phe	Phe	Phe
225					230					235					240
Phe	Phe	Ser	Leu	Phe	Xaa	Leu	Phe	Phe	Ser	Leu	Phe	Ser	Xaa	Ser	Phe
			245					250					255		
Phe	Leu	Phe	Leu	Leu	Phe	Phe	Pro	Pro	Phe	Phe	Ser	Ser	Phe	Leu	Leu
		260					265					270			
Xaa	Xaa	Ser	Phe	Leu	Phe	Xaa	Xaa	Leu	Ser	Pro	Phe	Pro	Leu	Phe	Leu
	275					280					285				
Leu	Ser	Phe	Pro	Pro	Phe	Phe	Phe	Phe	Leu	Leu	Phe	Phe	Ser	Pro	
290					295					300					

<210> 22587
<211> 285
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(25),(31),(50),(58),(59),(81),(101),(104),(106),(145),(187),(210),(214),(226),(247),(253),(255),(256),(257),(258),(260),(261),(263),(264),(267),(268),(269),(270),(272),(273),(274),(275),(276),(277),(278),(280),(281),(282),(283),(284),(285)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22587
Gly Glu Arg Lys Arg Gly Gly Lys Arg Lys Arg Glu Glu Arg Arg Gly
1 5 10 15
Gly Arg Glu Glu Lys Glu Arg Glu Xaa Lys Arg Gly Arg Lys Xaa Arg
20 25 30
Glu Glu Lys Lys Lys Lys Arg Glu Glu Arg Arg Glu Glu Arg Glu Arg
35 40 45
Lys Xaa Arg Lys Lys Gly Arg Lys Arg Xaa Xaa Arg Gly Lys Lys Lys
50 55 60
Lys Lys Lys Gly Glu Glu Lys Lys Lys Glu Glu Glu Lys Glu Lys Gly
65 70 75 80
Xaa Arg Gly Arg Glu Lys Lys Lys Arg Arg Lys Lys Lys Arg Arg Arg
85 90 95
Arg Lys Lys Lys Xaa Glu Gly Xaa Glu Xaa Lys Glu Lys Gly Arg Gly
100 105 110
Arg Lys Gly Arg Lys Glu Lys Gly Lys Arg Lys Lys Gly Gly Glu Lys
115 120 125
Lys Gly Arg Lys Glu Gly Lys Arg Lys Gly Lys Lys Glu Lys Lys Arg
130 135 140
Xaa Glu Arg Lys Glu Glu Glu Arg Arg Gly Lys Gly Arg Lys Glu Gly
145 150 155 160
Lys Arg Gly Gly Gly Gly Lys Lys Lys Glu Lys Lys Lys Lys Lys Lys
165 170 175
Arg Glu Glu Glu Lys Gly Arg Lys Arg Arg Xaa Arg Lys Lys Lys Lys
180 185 190
Glu Arg Glu Glu Arg Glu Arg Glu Lys Glu Arg Arg Glu Arg Glu Lys
195 200 205
Gly Xaa Glu Lys Glu Xaa Lys Glu Gly Lys Lys Glu Lys Gly Glu Lys
210 215 220
Lys Xaa Lys Arg Gly Lys Lys Lys Gly Glu Lys Arg Glu Lys Lys Lys
225 230 235 240
Lys Glu Arg Lys Gly Arg Xaa Arg Gly Lys Gly Arg Xaa Ile Xaa Xaa
245 250 255
Xaa Xaa Gly Xaa Xaa Lys Xaa Xaa Lys Lys Xaa Xaa Xaa Xaa Glu Xaa
260 265 270
Xaa Xaa Xaa Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa
275 280 285

<210> 22588
<211> 290
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222>
(24),(25),(30),(31),(50),(58),(81),(101),(104),(106),(145),(187),(209),(214),(226),(247),(253),(254),(255),(256),(258),(260),(262),(263),(264),(267),(268),(269),(270),(272),(273),(274),(275),(276),(277),(278),(280),(281),(282),(283),(285),(286),(287),(288),(290)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22588
Gly Arg Glu Lys Glu Glu Glu Lys Glu Lys Gly Arg Lys Gly Glu Glu
1 5 10 15
Glu Glu Arg Lys Arg Arg Glu Xaa Xaa Lys Glu Glu Gly Xaa Xaa Glu
20 25 30
Lys Lys Arg Arg Lys Lys Gly Arg Lys Glu Glu Lys Lys Glu Lys Glu
35 40 45
Arg Xaa Gly Lys Lys Gly Glu Lys Glu Xaa Glu Glu Gly Lys Lys Lys
50 55 60
Lys Lys Arg Glu Lys Arg Lys Lys Arg Lys Lys Lys Lys Arg Lys Glu
65 70 75 80
Xaa Gly Glu Glu Lys Arg Lys Arg Gly Glu Lys Arg Lys Glu Glu Glu
85 90 95
Glu Arg Arg Arg Xaa Arg Gly Xaa Lys Xaa Lys Lys Lys Glu Gly Glu
100 105 110
Gly Lys Gly Glu Lys Lys Arg Gly Lys Gly Lys Lys Gly Glu Arg Lys
115 120 125
Arg Gly Glu Lys Arg Gly Arg Glu Lys Glu Arg Arg Lys Lys Lys Glu
130 135 140
Xaa Arg Glu Lys Arg Lys Arg Gly Gly Glu Arg Glu Gly Lys Arg Glu
145 150 155 160
Lys Glu Gly Gly Glu Gly Lys Arg Arg Arg Arg Lys Arg Arg Lys Lys
165 170 175
Gly Lys Arg Arg Lys Gly Glu Lys Glu Gly Xaa Gly Arg Lys Lys Arg
180 185 190
Arg Gly Lys Arg Glu Arg Glu Lys Lys Lys Gly Gly Arg Glu Arg Lys
195 200 205
Xaa Gly Lys Arg Lys Xaa Arg Arg Glu Lys Lys Arg Lys Gly Lys Arg
210 215 220
Lys Xaa Arg Gly Glu Arg Arg Lys Gly Lys Arg Gly Lys Lys Lys Arg
225 230 235 240
Lys Lys Glu Lys Gly Glu Xaa Gly Gly Lys Glu Gly Xaa Xaa Xaa Xaa
245 250 255
Glu Xaa Gly Xaa Glu Xaa Xaa Xaa Lys Lys Xaa Xaa Xaa Xaa Arg Xaa
260 265 270
Xaa Xaa Xaa Xaa Xaa Xaa Glu Xaa Xaa Xaa Xaa Asn Xaa Xaa Xaa Xaa
275 280 285
Gly Xaa
290

<210> 22589
<211> 255
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222>
(25),(26),(31),(51),(58),(59),(81),(102),(104),(106),(145),(188),(210),(214),(226),(247),(253),(255)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22589
Gly Gly Glu Lys Lys Arg Arg Lys Lys Lys Lys Gly Gly Lys Glu Arg
1 5 10 15
Arg Lys Arg Gly Lys Gly Glu Arg Xaa Xaa Lys Arg Lys Glu Xaa Lys
20 25 30
Arg Arg Lys Glu Glu Lys Lys Gly Gly Lys Lys Arg Arg Lys Arg Lys
35 40 45
Lys Glu Xaa Glu Lys Arg Glu Lys Lys Xaa Xaa Lys Arg Glu Lys Lys
50 55 60
Lys Lys Lys Gly Arg Arg Glu Lys Lys Gly Arg Arg Lys Arg Glu Arg
65 70 75 80
Xaa Lys Gly Lys Arg Lys Glu Lys Glu Glu Lys Lys Glu Lys Lys Lys
85 90 95
Lys Lys Glu Glu Glu Xaa Gly Xaa Arg Xaa Glu Arg Lys Arg Lys Gly
100 105 110
Lys Glu Arg Glu Lys Arg Lys Gly Glu Lys Glu Lys Arg Gly Arg Glu
115 120 125
Lys Gly Glu Lys Arg Gly Glu Glu Lys Arg Lys Glu Gly Lys Lys Lys
130 135 140
Xaa Arg Glu Lys Arg Gly Arg Glu Glu Gly Lys Gly Lys Glu Arg Gly
145 150 155 160
Lys Lys Arg Gly Gly Arg Glu Lys Glu Gly Glu Glu Lys Glu Glu Lys
165 170 175
Lys Gly Arg Gly Glu Arg Glu Lys Lys Lys Glu Xaa Glu Glu Lys Lys
180 185 190
Gly Glu Gly Arg Glu Arg Glu Arg Lys Arg Lys Glu Gly Glu Arg Glu
195 200 205
Arg Xaa Gly Lys Gly Xaa Glu Gly Gly Lys Lys Arg Glu Arg Gly Lys
210 215 220
Glu Xaa Lys Glu Gly Lys Glu Glu Arg Gly Lys Glu Gly Lys Lys Lys
225 230 235 240
Glu Arg Lys Lys Arg Glu Xaa Lys Gly Glu Arg Lys Xaa Asn Xaa
245 250 255

<210> 22590
<211> 416
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (208)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22590
Arg Pro Val Trp Cys Ala Leu Ser Pro Asn Tyr Pro Ser Leu Val Ile
1 5 10 15
Ala Arg Ile Phe Gln Gly Ile Ala Val Ser Thr Val Glu Cys Leu Pro
20 25 30
Ser Ala Thr Ile Ala Glu Ile Tyr Phe Leu His Glu Arg Ala Tyr Arg
35 40 45

```
Val Gly Ile Tyr Thr Leu Leu Leu Leu Gly Gly Lys Asn Leu Val Pro
    50                  55                  60
Leu Val Ser Ala Ala Ile Ile Gly Arg Met Gly Trp Arg Trp Val Phe
65                  70                  75                  80
Trp Ile Val Ala Ile Ile Val Gly Ala Cys Leu Val Leu Leu Phe Phe
                85                  90                  95
Phe Val Pro Glu Thr Phe Trp Asp Arg Thr Pro Arg Pro Arg Arg Ser
            100                 105                 110
His Lys Arg Pro His Pro Met Arg Ser Val Ser Asp Leu Leu Arg Gly
        115                 120                 125
Arg Gln Leu His His Arg Leu Glu Asn Pro Ala Ser Asn Gly Asp His
    130                 135                 140
Thr Ser Pro Ala Pro Arg Lys Ser Asn Lys Gly His Val Gly Phe Val
145                 150                 155                 160
Glu Asp Gln Asp Gln Asp Gly Asn Pro Ile Asp Glu Lys Lys Arg Asn
                165                 170                 175
Leu Glu Asp Asn Asp Gln Ile Leu Pro Ser Glu Thr Pro Ala Glu His
            180                 185                 190
Asn Asp Gln Ser Val Leu Ala Asn Pro Glu Gln His Asp Ala Pro Xaa
        195                 200                 205
Gln Ile Pro Ala Pro Ala Val Thr Arg Glu Ser Asp Ser Gln Arg Asp
    210                 215                 220
Leu Glu Phe Ala Arg Arg Pro Ala Val Ser Pro Ala Arg Ser Glu Ser
225                 230                 235                 240
Val Gly Ser Ala Val Pro Leu Leu Pro Ser Gln Val Tyr Thr Asn Arg
                245                 250                 255
Leu Arg Glu Lys Pro Arg Ile Pro Phe Thr His Tyr Leu Arg Val Trp
            260                 265                 270
Asn Gly Arg Ile Ser His Asp Lys Trp Leu Arg Val Ala Ile Arg Pro
        275                 280                 285
Phe Ile Leu Phe Ala Tyr Pro Ala Val Leu Trp Ser Ser Val Val Tyr
    290                 295                 300
Ala Leu Ser Val Gly Trp Leu Ile Val Leu Ser Glu Ser Val Ala His
305                 310                 315                 320
Leu Tyr Gln Gly Pro His Gly Tyr Asn Phe Thr Pro Leu Gln Thr Gly
                325                 330                 335
Leu Ile Tyr Ile Ser Pro Phe Val Gly Gly Leu Leu Gly Thr Ala Val
            340                 345                 350
Ala Gly Lys Val Ser Asp Val Ile Val Arg Phe Met Ser Arg Arg Asn
        355                 360                 365
Gly Gly Val Tyr Glu Pro Glu Phe Arg Leu Val Met Ala Ile Pro Ile
    370                 375                 380
Ala Leu Ser Thr Ser Ala Gly Leu Met Ala Phe Gly Trp Ser Thr Ala
385                 390                 395                 400
Val Lys Asp Leu Tyr Gln Gly Asp Arg Gly Ile Pro Arg Tyr Gly His
                405                 410                 415
```

<210> 22591
<211> 105
<212> PRT
<213> A.fumigatus

<400> 22591

```
Asn Trp Arg His Thr Pro Lys Val Gly Lys Gln Ser Arg Asn Gln Asn
1               5                   10                  15
Phe Arg Asn Ala Val Asp Lys Asp Gly Thr Arg Leu Pro Thr Arg Ile
```

```
            20                  25                  30
Tyr Pro Ala Pro Ala Val Ser Thr Ile Arg Ala Asp Leu Val Asp Leu
        35                  40                  45
Thr Gly Arg Pro Met Phe Ser Met Thr Gly Asn Val Ile Ser Cys Gly
    50                  55                  60
Arg Leu Val Ala Leu Ala His Cys Leu Gly Leu Asn Arg Asp Pro Ser
65                  70                  75                  80
Asn Trp Lys Leu Ser Pro Gln Glu Lys Asp Asn Arg Ile Arg Leu Trp
                85                  90                  95
Trp Gly Val Val Ile His Asp Arg Trp
            100                 105
```

<210> 22592
<211> 189
<212> PRT
<213> A.fumigatus

<400> 22592

```
Ser Ile Glu Leu Leu His Thr Thr Ile Gln Ala Val Asp Ile Leu Ser
1               5                   10                  15
Ala Thr His Ser Val Asp Asp Tyr Asn Val Ser Thr Ala Gly Phe Ile
            20                  25                  30
Gly Phe Tyr His Ser Ile Gly Arg Tyr Pro Leu Pro Glu Arg Ser Thr
        35                  40                  45
Tyr Phe Tyr Lys Thr Leu Phe Ala Ser Val Leu Arg Val Leu Pro His
    50                  55                  60
Thr Asn Pro Ser Val Asn Ser Gly Ala Val Arg Gln Asn His Lys Met
65                  70                  75                  80
Asp Phe Ile Ser Thr Gln His His Asp Thr Tyr Pro Phe Ile Ala Gln
                85                  90                  95
Ala Thr His His Asn His Arg Val Leu Ile Thr Gly Ala Ser Arg Gly
            100                 105                 110
Ile Gly Leu Ala Thr Ala His Ser Phe Ala Arg Ala Gly Ala Pro Ser
        115                 120                 125
Ile Ala Ile Ala Ala Arg Gly Pro Leu Asp Thr Val Glu Thr Ala Leu
    130                 135                 140
Leu Ser Thr Ala Lys Glu Ala Gly His Pro Pro Pro Thr Ile Leu Lys
145                 150                 155                 160
Leu Thr Leu Asp Val Ala Asp Asp Ala Ser Val Ala Ala Ala Ala Glu
                165                 170                 175
Glu Val Ala Ala Thr Arg Thr Pro Arg His Pro Asp Gln
            180                 185
```

<210> 22593
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22593

```
Asn Lys Pro Thr Arg Ser Cys Tyr Arg Leu Asn Asp Ile Glu Asp Gly
1               5                   10                  15
Ser Thr Leu Arg Arg Gly Lys Pro Ala Ala His Leu Lys Phe Gly Leu
            20                  25                  30
Gly Gln Thr Val Asn Ala Ala Thr Phe Leu His Ala Glu Ala Val Arg
        35                  40                  45
Tyr Thr Leu Glu His Leu Gly Pro Asp Cys Ser Met Leu Met Leu Lys
```

50 55 60
Leu
65

<210> 22594
<211> 296
<212> PRT
<213> A.fumigatus

<400> 22594
Ser Ser Ser Cys Ser Ala Gly Pro Ser Ser Pro Val Val Lys Thr Asp
1 5 10 15
Val Thr Asp Ala Ile Ile Glu Leu Asp Lys Ala Phe Arg Cys Ala Lys
20 25 30
Ala Pro Leu Ser Pro Ile Ser Arg Pro Asp Asn Asn Ser Val Glu Phe
35 40 45
Ala Arg Thr Gln Glu Asn Gly Asn Ser Leu Ser Leu Pro Glu Leu Pro
50 55 60
Pro Ile Leu Asp Ser Ser Leu Glu Leu Ala Val Phe Thr His Pro Gly
65 70 75 80
Leu Ser Lys Asp Ser Lys Leu Thr Tyr Asp Arg Leu Glu Ile Leu Gly
85 90 95
Asp Ala Tyr Ile Glu Leu Ile Ala Thr Arg Phe Ile Trp Gly Arg Tyr
100 105 110
Glu Gly Phe Ser Ser Gly Gln Ile Ser Gln Ile Arg Glu Leu Leu Val
115 120 125
Lys Asn Glu Thr Leu Ser Glu Phe Ala Thr Leu Tyr Gly Leu Asp Asn
130 135 140
Arg Ala Ser Val Pro Arg Asp Leu Leu Ser Gln Pro Arg Arg Trp Thr
145 150 155 160
Lys Thr Lys Gly Asp Ile Phe Glu Ser Tyr Val Ala Ala Val Ile Leu
165 170 175
Ser Arg Pro Ser Asp Gly Tyr His Val Ala Glu Arg Trp Leu Thr Gln
180 185 190
Leu Trp Leu Pro Arg Leu Thr Asp Ala Val Ile Pro Arg Thr Ala Leu
195 200 205
Asp Ala Lys Glu Asn Leu Ala Lys Arg Ile Met Gly Lys Gly Val Lys
210 215 220
Leu Lys Tyr Val Asp Glu Arg Ser Pro Ala Gln Ser Arg Gly Gly Met
225 230 235 240
Gln Thr Phe Tyr Val Gly Val Tyr Leu Thr Gly Trp Gly Trp Gln Asn
245 250 255
Lys His Leu Gly Ser Gly His Gly Pro Ser Lys Ala Val Ala Gly Asp
260 265 270
Ala Ala Ala Arg Gln Ala Leu Phe Glu Trp Ser Ser Leu Lys Phe Ile
275 280 285
Ile Pro Thr Lys Lys Glu Asn Pro
290 295

<210> 22595
<211> 102
<212> PRT
<213> A.fumigatus

<400> 22595
Ser Pro His Tyr Val Pro Ala Pro Ser Cys Gln Asn Asn Ser Ser Gly

```
1               5                   10                  15
His Ala Gly Trp Leu Gly Trp Pro Ala Asn Leu Gly Pro Ala Ala Thr
            20                  25                  30
Leu Phe Ala Lys Val Tyr Thr Asp Ala Gly Ser Pro Ala Ala Val Arg
        35                  40                  45
Gly Leu Ala Thr Asn Val Ala Asn Tyr Asn Ala Trp Ser Leu Ser Thr
    50                  55                  60
Cys Pro Ser Tyr Thr Gln Gly Asp Pro Gln Leu Arg Arg Glu Glu Val
65                  70                  75                  80
His Gln Arg His Gly Ala Ser Ser Gln Gly Ser Arg Leu Arg Cys Pro
                85                  90                  95
Leu His His Gly Tyr Leu
            100
```

<210> 22596
<211> 103
<212> PRT
<213> A.fumigatus

<400> 22596

```
Val Leu Ile Pro Ile Ala Asp Val Cys Arg Leu Ile Asn Val Ser Ala
1               5                   10                  15
Arg Asn Gly Val Gln Pro Thr Lys Gln Asn Ala Trp Gly Asp Trp Cys
            20                  25                  30
Asn Val Ile Gly Thr Gly Phe Gly Val Arg Pro Ser Thr Asn Thr Gly
        35                  40                  45
Asp Pro Leu Gln Asp Ala Phe Val Trp Ile Lys Pro Gly Gly Glu Ser
    50                  55                  60
Asp Gly Thr Ser Asn Ser Thr Ser Pro Arg Tyr Asp Ala His Cys Gly
65                  70                  75                  80
Tyr Ser Asp Ala Leu Gln Pro Ala Pro Glu Ala Gly Thr Trp Phe Gln
                85                  90                  95
Val Cys His Pro Leu Ala Arg
            100
```

<210> 22597
<211> 113
<212> PRT
<213> A.fumigatus

<400> 22597

```
His Arg Ile Thr Cys Gln Pro Arg Arg Val Arg Ile Thr His Gln Ala
1               5                   10                  15
Met Arg Ala Gly Ser Asp Gly Pro Pro Thr Trp Ala Pro Pro Gln His
            20                  25                  30
Ser Ser Pro Lys Ser Thr Pro Thr Arg Val Pro Pro Arg Leu Phe Val
        35                  40                  45
Ala Trp Pro Pro Thr Ser Pro Thr Thr Thr Pro Gly Arg Ser Val Pro
    50                  55                  60
Ala Pro Pro Thr Pro Arg Glu Thr Pro Asn Cys Asp Glu Lys Lys Tyr
65                  70                  75                  80
Ile Asn Ala Met Ala Pro Leu Leu Lys Glu Ala Gly Phe Asp Ala His
                85                  90                  95
Phe Ile Met Asp Thr Cys Lys Cys Leu Phe Gln Ser Pro Met Cys Ala
            100                 105                 110
Asp
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<210> 22598
<211> 169
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (55)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22598
Trp Arg Phe Cys Ser Val Ser Ala Arg Glu Gly Met Ile Ile Thr Asp
1 5 10 15
Phe Ala Ser Met Pro Phe Ala Arg Gln Leu Glu Lys Thr Ala Ala Asn
20 25 30
Asp Cys Arg Ser Lys Asn Arg Trp Thr Met Val Ala Ser Leu Val Ile
35 40 45
Ala Thr Ile Leu Arg Val Xaa Trp Val Ile Ile Ser Tyr Gly Cys Lys
50 55 60
Val Pro Val Gly Ile Phe Val Pro Ser Met Ala Ile Gly Ala Ser Phe
65 70 75 80
Gly Arg Leu Val Gly Ile Leu Val Gln Ala Leu His Glu Ala Phe Pro
85 90 95
Asn Ser Ala Tyr Tyr Ala Ser Cys Lys Pro Asp Val Pro Cys Ile Thr
100 105 110
Pro Gly Thr Tyr Ala Phe Leu Gly Ala Gly Ala Ala Leu Ser Gly Ile
115 120 125
Met His Leu Arg Ile Ser Val Val Val Ile Met Phe Glu Pro Tyr Gly
130 135 140
Gly Leu Thr Tyr Phe Leu Pro Thr Met Val Ser Gln Ser Gly Leu Val
145 150 155 160
Gly Ile Ile Thr Lys His Tyr Ile Gly
165

<210> 22599
<211> 95
<212> PRT
<213> A.fumigatus

<400> 22599
Leu Gly Gly Trp Thr Leu Leu Ile Lys Ser Ile Ala Leu Pro Leu Ala
1 5 10 15
Ile Ala Ser Gly Leu Ser Val Gly Lys Glu Gly Pro Ser Val His Phe
20 25 30
Ala Val Cys Thr Gly Asn Val Ile Ser Arg Leu Phe Ser Lys Tyr Lys
35 40 45
Leu Asn Ala Ser Lys Thr Arg Glu Val Leu Thr Ala Thr Ala Ala Ala
50 55 60
Gly Val Ala Val Ala Phe Gly Ser Pro Ile Gly Gly Val Leu Phe Ser
65 70 75 80
Leu Glu Val Gly Asp Phe Glu Ala His Val Phe Gly Gly Leu Cys
85 90 95

<210> 22600

<211> 72
<212> PRT
<213> A.fumigatus

<400> 22600
Ser Arg Pro Gln Met Met Asn Pro Phe Arg Thr Gly Gln Leu Val Met
1 5 10 15
Phe Gln Val Gln Tyr Asp Arg Thr Trp His Phe Phe Glu Leu Ile Phe
20 25 30
Phe Val Leu Leu Gly Ile Phe Gly Gly Leu Tyr Gly Val Phe Val Ile
35 40 45
Lys Trp Asn Leu Arg Val Gln Ala Phe Arg Lys Lys Tyr Leu Ser Gln
50 55 60
Tyr Pro Ile Val Glu Ser Val Ile
65 70

<210> 22601
<211> 319
<212> PRT
<213> A.fumigatus

<400> 22601
Cys Thr His Phe Leu Pro Ser Arg Arg Leu Arg Ile Asp Ser Cys Asp
1 5 10 15
Val Arg Gly Ser Leu Glu Gly Leu Lys Glu Met Leu Ser Glu Leu Lys
20 25 30
Ser Ala Lys Glu Ile Ala Ile Asp Leu Glu His His Asp Val His Ser
35 40 45
Tyr His Gly Leu Val Ser Leu Met Gln Ile Ser Thr Arg Asp Lys Asp
50 55 60
Trp Val Val Asp Thr Leu Lys Pro Trp Arg Glu Glu Leu Gln Ile Leu
65 70 75 80
Asn Glu Val Phe Ala Asp Pro Gly Ile Leu Lys Val Leu His Gly Ser
85 90 95
Ser Met Asp Ile Ile Trp Leu Gln Arg Asp Leu Gly Leu Tyr Val Val
100 105 110
Gly Met Phe Asp Thr Tyr His Ala Ala Cys Ala Leu Asn Tyr Pro Lys
115 120 125
Arg Ser Leu Lys Phe Leu Leu His Lys Phe Val Asn Phe Glu Ala Asp
130 135 140
Lys Arg Tyr Gln Met Ala Asp Trp Arg Ile Arg Pro Leu Pro Ser Gly
145 150 155 160
Met Phe Asp Tyr Ala Arg Ser Asp Thr His Tyr Leu Leu Tyr Ile Tyr
165 170 175
Asp His Leu Arg Asn Glu Leu Leu Glu Asn Ser Thr Pro Asp His Asn
180 185 190
Leu Val Asp Tyr Val Leu Glu Gln Ser Lys Asn Glu Ala Leu Gln Arg
195 200 205
Tyr Glu Arg Pro Val Tyr Asp Ala Ala Thr Gly Gln Gly Gln Gly Gly
210 215 220
Trp Tyr Asp Tyr Leu Tyr Arg Asn Pro Ala Val Leu Ser Lys Glu Gln
225 230 235 240
Phe Ala Val Phe Lys Ala Val His Gln Trp Arg Asp Glu Val Ala Arg
245 250 255
Glu Glu Asp Glu Gly Val Gln Cys Val Phe Pro Lys His Ile Leu Phe
260 265 270

```
Lys Ile Ala Gln Val Met Pro Leu Asp Gln Gly Thr Leu Phe Arg Thr
        275                 280                 285
Leu Ser Pro Val Thr Pro Ile Ala Lys Asp Arg Ala Ala Asp Leu Leu
    290                 295                 300
Glu Val Ile Lys Lys Ala Lys Ile Glu Gly Ala Thr Gly Pro Glu
305                 310                 315

<210> 22602
<211> 204
<212> PRT
<213> A.fumigatus

<400> 22602
Ser Leu Gly Ile His Leu Ser Phe Val Arg Leu Gly Glu Asn Thr Val
1               5                   10                  15
Ala Met Ser Arg Ala Arg Ser His Thr Arg Ser Ala Ser Arg Ser Pro
            20                  25                  30
Ser Ala Tyr Ser Arg Ser Ala Thr Pro Ser Asp Asp Glu Glu Ala Ala
        35                  40                  45
Arg Glu Arg Glu Arg Ile Arg Arg Glu Arg Arg Gln Asp Ala Glu Arg
    50                  55                  60
Gln Leu Arg Gln Ser Arg Met Gly Thr Glu Arg Arg Ile Gln Met Met
65                  70                  75                  80
Ala Arg Glu Gln Asn Arg Asp Ile Ser Glu Lys Val Ala Leu Gly Leu
                85                  90                  95
Ala Lys Pro Thr Gln Thr Ser Glu Ser Met Trp Asp Ser Arg Leu Phe
            100                 105                 110
Asn Gln Thr Ser Gly Leu Gln Ser Gly Phe Asn Glu Asp Asn Pro Tyr
        115                 120                 125
Asp Lys Pro Leu Phe Ala Ala Gln Asp Ala Ile Asn Ser Ile Tyr Arg
    130                 135                 140
Pro Arg Ala Gln Leu Asp Val Asp Asp Glu Glu Gly Ala Glu Gly Glu
145                 150                 155                 160
Met Ser Lys Ile Gln Lys Thr Asn Arg Phe Glu Val Leu Gly Lys Ala
                165                 170                 175
Lys Asp Ser Phe Arg Gly Ala Ala Glu Ala Glu Val Arg Phe Asp Ser
            180                 185                 190
Pro Ser Ala Pro Pro Pro Ser Arg Met Pro Leu Ser
        195                 200

<210> 22603
<211> 297
<212> PRT
<213> A.fumigatus

<400> 22603
Ser Pro Leu Leu Ala Pro Ile Phe Asn Leu Pro Asn Pro Val Ser Leu
1               5                   10                  15
Arg Gln Arg Asn Ala Ile Phe Gln Ser Tyr Cys Asp Phe Ile Ser Glu
            20                  25                  30
Arg Ser Lys Ala Ile Lys Leu Ile Lys Met Ser Ala His Thr Leu Lys
        35                  40                  45
Lys Lys Ser Trp Glu Ser Leu Ser Ser Thr Phe Ser Asn Leu Glu Ile
    50                  55                  60
Ser Val Ser Gln Asp Ser Cys Tyr Ala Ser Asp Glu Leu Ser Ile Ser
65                  70                  75                  80
```

```
Pro Thr Asn Pro Val Thr Ala Gly Thr Ser Leu Ala Ser Phe Thr Pro
                85                  90                  95
Ala Arg Gln Asn Ser Leu His Ser Leu Leu Lys Pro Ile Leu Lys Arg
            100                 105                 110
Pro Tyr Ser Asp Ile Glu Glu Asp Glu Glu Pro Glu Ser Gly Tyr Gly
        115                 120                 125
Thr Asp Asp Ser Glu Tyr Asp Tyr Ala Ser Val Ser Asp Glu His Asp
    130                 135                 140
Asp Glu Met Tyr Ala Val Ser Thr Trp Asp Glu Ala Ser Asp Ala Ser
145                 150                 155                 160
Asp Ala Ile Leu Glu Asn Cys Asn Asp Asp Val Glu Ser Val Asp Gly
                165                 170                 175
Ser Phe Ile Ser Phe Glu Ser Met Val Arg Phe Asp Thr Asn Val Arg
            180                 185                 190
Tyr Ile Glu Ala Pro Glu Pro Gln Glu Glu Glu Thr Glu Thr Pro Arg
        195                 200                 205
Thr Glu Leu Thr Cys His Glu Leu Met Glu Met Ala Arg Ala Ser Gly
    210                 215                 220
Thr Leu Arg Leu Gln Gly Glu Gln Val Ala Glu Ser Asp Ser Ser Asp
225                 230                 235                 240
Lys Met Pro Glu His Asp Glu Leu Asp Asp Ser Ile Lys Gln Trp Pro
                245                 250                 255
Glu Glu His Pro Ser Asp Ile Val Asp Leu Asp Lys Arg Leu Phe Ile
            260                 265                 270
Gly Tyr Ile Asn Arg Ile Asn Gly Asn Ala Asp Pro Gly Tyr Lys Val
        275                 280                 285
Arg Leu Pro Glu Arg Phe Asp Asp Ile
    290                 295
```

<210> 22604
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22),(23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22604

```
Pro Gly Pro Leu Phe Ala Asp Asp Arg Ile His Val Gly Ala Phe Ala
1               5                   10                  15
Ser Trp Cys Thr Pro Xaa Xaa Val Leu Thr Thr Pro Leu His His Ser
            20                  25                  30
Met Ile Gly Val Pro Arg Arg Asn Leu Pro Thr Arg Thr Ile Ala Val
        35                  40                  45
Thr Pro Leu Pro Arg Thr Ala Pro His Ile Leu Leu Cys Thr Pro Leu
    50                  55                  60
Gln Val Arg
65
```

<210> 22605
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22605
Thr Ser Ile Ala Asp Pro Ser Ser Pro Val Val Lys Thr Ser Ile Glu
1 5 10 15
Gly Ile Pro Leu Ala Thr Phe Asn His Val Asp Tyr Gly Val Phe Gly
20 25 30
Phe Cys Lys Gly Gly Glu Cys Thr Asn Ile Gly Arg Gly Tyr Thr Thr
35 40 45
Gly Met Trp Phe Arg Leu Tyr Ser Ser Lys Gln Val Ala Gly Tyr His
50 55 60
Ser
65

<210> 22606
<211> 266
<212> PRT
<213> A.fumigatus

<400> 22606
His Pro Ser Asp Glu Ile Ser Asn Thr Asp Asn Ser Glu Phe Asp Leu
1 5 10 15
Pro Ser Ser Thr Arg Arg Ala Leu Ser Ser Ile Leu Ile Gly His Pro
20 25 30
Val Ala Ala Phe Leu Thr Leu Val Cys Leu Cys Leu Ala Ala Ala Ala
35 40 45
His Leu His Ala Pro Ser His Ser Pro Arg Tyr Leu Leu Ala Leu Leu
50 55 60
Ile Leu Leu Leu Thr Thr Leu Leu Asp Ser Leu Leu Ala Phe Leu Val
65 70 75 80
Asp Ile Leu Leu Phe Gly Pro His Leu Gly Trp Gly Gly Trp Ile Val
85 90 95
Leu Gly Ala Thr Ile Leu Leu Val Ile Ser Gly Val Val Thr Cys Ala
100 105 110
Met Arg Arg Thr Leu Val Ser Arg Lys Ala Arg Lys Arg Arg Ile Ala
115 120 125
Glu Asn Ala Glu Met Ser Gly Glu Asn Tyr Tyr Asn Arg Gln Asn Ala
130 135 140
Ala Ala Pro Val Val Ala Ser Gly Phe Thr Gly Pro Arg Ser Ala Ala
145 150 155 160
Leu Asn Ala Glu Thr Lys Glu Ala Ile Leu Thr Thr Ser Pro Asn Ser
165 170 175
Glu Ser Gly Pro Met Phe Ala Thr Phe Arg Thr Thr Thr His Ser Ser
180 185 190
Asp Asp Asp Gln Thr Pro Leu Asn Thr Gln Gly Ala Pro Thr Asp Ile
195 200 205
Pro Ala Pro Asp Ser Gln Tyr Ala Ala Arg Gly His Gly Asp Arg Met
210 215 220
Pro Ser Gly Ala Leu Phe Asp Glu Ser Arg Asn His Pro Tyr Ala Ser
225 230 235 240
Ser Tyr Arg Pro Gly Pro Arg Met Arg Pro Glu Pro Gly Asp Pro Arg
245 250 255
Leu Arg Pro Gln Tyr Ser Asp Gly Ser Met
260 265

<210> 22607
<211> 115
<212> PRT

<213> A.fumigatus

<400> 22607
Ala Arg Phe Leu Pro Gly Pro Trp Arg Glu Asp Gln Thr Phe Leu Ser
1 5 10 15
Val Cys Leu Ala Thr Ser Val Leu Ala Val Thr Asn His Ala Glu Asn
20 25 30
Leu Ala His Gln Ala Ser Leu Pro His His Arg Phe Thr Leu Asp Cys
35 40 45
Leu Ser Ser Ser Lys Arg Leu Phe Ile Gly Gln Cys Thr Arg Gly Asp
50 55 60
Ser Leu Arg Arg Pro Ala Asp Gln Gln Met Gln Arg Ser Tyr Ala His
65 70 75 80
Arg Glu Tyr Pro Gln Asp Arg His Leu Val Asn Leu Cys Pro Arg Lys
85 90 95
Gly Trp Cys Asn Gly Thr Ile Gly Val Glu Arg Leu Ser Leu Phe Asp
100 105 110
Ala Gly Leu
115

<210> 22608
<211> 98
<212> PRT
<213> A.fumigatus

<400> 22608
Gly Gly Gly Lys Lys Ser Lys Lys Lys Lys Thr Gly Asn Tyr Gln Gln
1 5 10 15
Thr Ile Gly Ile Ile Phe Pro Gln Asn Asn Thr Gln Gly Glu Glu Tyr
20 25 30
Arg Pro Arg Val Leu Gln Gly Gln Phe Gly Met Ala Thr Leu Thr Ser
35 40 45
Val Gly Ile Glu Gly Ile Gly Leu Arg Gly Thr Thr Gly Ile Gly Thr
50 55 60
Leu Arg Lys Val Asn Cys Gly Gly Lys Asn Asp Trp Phe Gly Thr Thr
65 70 75 80
Gln Leu Asn Pro Trp Val Arg Arg Thr Val Leu Pro Leu Ala Ser Met
85 90 95
Glu Ile

<210> 22609
<211> 95
<212> PRT
<213> A.fumigatus

<400> 22609
Ser Cys Thr Pro Arg Leu Leu His Phe Val Thr Ser Lys Ser Glu Ser
1 5 10 15
Thr Arg Asn Leu Val Leu Ser Ala Glu His Glu Pro Tyr Phe Val Ile
20 25 30
Leu Gln Tyr Leu Leu Ala Phe Ser Tyr Lys Lys Val Val Leu Ala Arg
35 40 45
Asp Thr Phe Gly Glu Cys Ser Thr Gln Cys Tyr Thr Tyr Leu Ser Leu
50 55 60
Tyr Leu Cys Thr Val Gln Ser Arg Ser Ala Phe Gln Ser Ser Thr Leu

65 70 75 80
Val Leu Arg Tyr Arg Leu Cys Phe Ser Arg Asn Pro Cys Pro Thr
85 90 95

<210> 22610
<211> 337
<212> PRT
<213> A.fumigatus

<400> 22610
Gly Gly Gly Thr Leu Cys Arg Cys Leu Leu Ser Gly Ile Phe Ala Arg
1 5 10 15
Thr Leu Val His Leu Trp Gly Ser Arg Asn Ser Lys Ser Ile Trp Arg
20 25 30
Thr Arg Thr Phe Phe Pro Met Asp Ala Ile Arg Glu Val Lys Tyr Leu
35 40 45
Gln Glu Phe Ser His Pro Asn Ile Ile Ala Leu His Asp Val Phe Ser
50 55 60
Phe Lys Asp Gln Asn Leu Asn Leu Val Leu Glu Tyr Leu Pro Arg Gly
65 70 75 80
Asp Leu Glu Met Leu Ile Lys Asp Glu Asn Ile His Tyr Gly Val Ala
85 90 95
Asp Val Lys Ala Trp Met Gly Met Leu Ala Arg Gly Val Trp Phe Cys
100 105 110
His Glu Asn Phe Val Leu His Arg Asp Ile Lys Pro Asn Asn Leu Leu
115 120 125
Ile Ala Ser Asp Gly Glu Val Lys Leu Ala Asp Phe Gly Leu Ala Arg
130 135 140
Ser Phe Ala Asp Pro Tyr Leu Asn Met Thr His Gln Val Ile Thr Arg
145 150 155 160
Trp Tyr Arg Pro Pro Glu Leu Leu Tyr Gly Ala Arg Gln Tyr Ser Gly
165 170 175
Ala Val Asp Val Trp Ser Met Gly Met Val Phe Ala Glu Leu Leu Leu
180 185 190
Arg Val Pro Phe Val Ala Gly Asn Ser Asp Ile Asp Gln Ile Ser Lys
195 200 205
Ile Cys Glu Ala Phe Gly Thr Pro Ser Glu Glu Asn Trp Pro Gly Val
210 215 220
Ser Thr Leu Pro Asn Tyr Ile Pro Ser Asp Arg Gln Ser Thr Val Pro
225 230 235 240
Leu Gln Gly Arg Asp Phe Phe Leu Arg Gln Phe Pro Thr Ala Gly Pro
245 250 255
Ala Gly Ala Asp Leu Leu Met Ser Met Cys Thr Leu Asp Pro Arg Lys
260 265 270
Arg Ser Thr Ala Tyr Gln Ile Leu Gln His Gly Trp Trp Ser Thr Glu
275 280 285
Pro Arg Pro Thr Ala Lys Glu Asp Leu Pro Arg Lys Ser Gly Gly Thr
290 295 300
Lys Lys Met Gly Asp Asp Leu Ser Arg Arg Gly Gly Asp Val Asp Asp
305 310 315 320
Gly Pro Phe Lys Ser Ala Ala Arg Gln Leu Asp Phe Met Ala Val Lys
325 330 335
Arg

<210> 22611

<211> 274
<212> PRT
<213> A.fumigatus

<400> 22611
Met Val Ala Gln Ala Leu Asn Gly Phe Gly His Pro Asp Ser Gln Val
1 5 10 15
Pro Phe Glu Glu Pro Ser Pro Ala Pro Tyr Pro Ala Thr Tyr Ser Pro
20 25 30
His Thr Pro Gln Ser Ser Phe Thr Gln His Gln Pro Pro Thr His Phe
35 40 45
Ser Ser Gly Ala Leu Ala Ser Ala Thr Pro His Phe Thr Pro Ser His
50 55 60
Ile Gln Asn Gly Ala His Thr Asn Val Asp Glu Asp Ile Asp Glu Ser
65 70 75 80
Met Asn Glu His Trp Gln Gln Gln Leu Gln Leu Ala Ala Glu Ser Arg
85 90 95
Gln Ala Ser Ser Pro His Tyr His Ala Arg Ser Val Ala Arg Gln Ala
100 105 110
Lys Gly Ile Gln Ile Ala Pro Ser Gln Pro Glu Thr Gln Glu Gln Val
115 120 125
Pro Asp Gly Gln Asn Gly Val Val Lys Ala Lys Ala Ser Ser Arg Gln
130 135 140
Gly Trp His Ala Leu Asp Phe Gly Gly Gln Gly Leu Arg Ala Leu Ser
145 150 155 160
Thr Ser Leu Phe Asn Tyr Ile Phe Leu Glu Lys Leu Tyr Leu Asn His
165 170 175
Asn Lys Leu Lys Ala Leu Pro Pro Ala Ile Gly Gln Leu Arg Lys Leu
180 185 190
Asn His Leu Asp Leu Ser Gly Asn Asp Leu Thr Glu Leu Pro Glu Glu
195 200 205
Ile Gly Met Leu Thr Asn Leu Lys Lys Leu Tyr Leu Phe Asp Asn Asn
210 215 220
Ile Arg Thr Leu Pro Tyr Glu Met Gly Tyr Leu Tyr Arg Leu Glu Thr
225 230 235 240
Leu Gly Val Glu Gly Asn Pro Leu Asn Asp Val Leu Lys Ser His Ile
245 250 255
Met Lys Glu Gly Thr Lys Ala Leu Ile Lys Tyr Leu Lys Glu Glu Met
260 265 270
Pro Gly

<210> 22612
<211> 64
<212> PRT
<213> A.fumigatus

<400> 22612
Arg Val Trp Ala Ser Arg Phe Pro Ser Ser Ile Arg Arg Ala Ile Thr
1 5 10 15
Arg Thr Ile Pro Ser Asn Leu Phe Thr Thr His Thr Thr Ile Lys Leu
20 25 30
His Thr Thr Ser Thr Thr Asn Thr Leu Leu Glu Arg Gly Ile Gly Phe
35 40 45
Arg Asp Ser Pro Leu Tyr Pro Lys Pro His Pro Lys Trp Gly Ser His
50 55 60

<210> 22613
<211> 125
<212> PRT
<213> A.fumigatus

<400> 22613
Arg Pro Ser Ala Pro Asn Ala Ser Cys Thr Pro Glu Thr Tyr Asp His
1 5 10 15
Ile Leu Gly Met Ile Asp Lys Tyr Val Arg Arg Glu Arg Ser Gln Arg
20 25 30
Arg Trp Arg Leu Ala His Phe Val Ala Ser Val Val Val Ser Ile Gly
35 40 45
Cys Phe Val Gly Val Trp Trp Thr Gly Asp His Leu Pro Tyr Val Ala
50 55 60
Phe Ile Leu Cys Leu Val Ser Thr Leu Ser Phe Gly Ala Gly Ile Leu
65 70 75 80
Asp Gly Leu Ile Gly Gly Leu Phe Val Ser Ser Glu Leu Arg Ala Leu
85 90 95
Lys Glu Phe Glu Trp Glu Val Arg Asn Ala Lys Arg Ile Val Glu Arg
100 105 110
Ala Gly Ala Gln Gly Thr Ile Lys Ile Glu Glu Ser Gln
115 120 125

<210> 22614
<211> 240
<212> PRT
<213> A.fumigatus

<400> 22614
Arg Thr Ser Pro Arg Thr His Lys Trp Cys Phe Ile Pro Arg Asp Arg
1 5 10 15
Gln Pro Arg Phe Thr Ser Pro Lys Ala Gly Val His Ser Thr Asn Arg
20 25 30
Phe His Pro Phe Val Lys Gln Glu Thr Ser Lys His Ala Leu Thr Gly
35 40 45
Ser Ala Pro Leu Glu Arg Lys Ser Arg Ala Arg Pro Glu Ala Asp Asp
50 55 60
Asp Trp Ser Ala Ala Gly Ser Glu Phe Asp Ser Ser Asp Asp Asp Asp
65 70 75 80
Asp Glu Arg Pro Gly Gly Gly Ser Ala Lys Gln Leu Ala Ser Ile Leu
85 90 95
Phe Gly Thr Met Ala Pro Pro Arg Pro Leu Ser Ala Met Asp Asp Lys
100 105 110
Ser Pro Ser Lys Ser Ser Thr Pro Val Gln Asp Ser Pro Val Ala Ser
115 120 125
Leu Pro Val Pro Glu Ser Asn Gly Ser Leu Ser Ala Pro Ala Ala Pro
130 135 140
Pro Pro Pro Pro Pro Pro Pro Pro Ala Ala Val Pro Ser Tyr Asp Pro
145 150 155 160
Ser Val Ala Pro Pro Pro Pro Pro Ala Pro Pro Met Ala Pro Pro Ala
165 170 175
Pro Pro Pro Gly Pro Pro Pro Pro Pro Gly Pro Pro Pro Pro Pro Ala
180 185 190
Pro Pro Ala Ala Ser Gly Pro Pro Thr Pro Ala Gly Ala Pro Asp Arg
195 200 205

```
Ser Ala Leu Leu Ala Ser Ile Gln Lys Gly Lys Gly Leu Arg Lys Val
    210                 215                 220
Gln Thr Asn Asp Arg Ser Thr Ser Ser Ile Ala Gly Arg Val Leu Asp
225                 230                 235                 240
```

<210> 22615
<211> 93
<212> PRT
<213> A.fumigatus

<400> 22615

```
Ile Cys Thr Asp Cys Tyr Arg Asp Ile Ala Lys Ala Leu Glu Leu Phe
1               5                   10                  15
Met Ile Ser Leu Val Thr Lys Ala Ala Lys Glu Ala Arg Asp Arg Asn
            20                  25                  30
Ser Lys Arg Val Thr Ala Thr His Leu Lys Gln Ala Val Val Lys Asp
        35                  40                  45
Glu Val Leu Asp Phe Leu Ala Asp Ile Ile Ala Lys Val Pro Asp Gln
    50                  55                  60
Pro Ala Gly Gly Thr Lys His Val Phe Ile His Glu Gly Gly Lys Asn
65                  70                  75                  80
Pro Arg Lys Gly Ile His Asn Pro Pro Ile Ala Pro Ala
                85                  90
```

<210> 22616
<211> 187
<212> PRT
<213> A.fumigatus

<400> 22616

```
Ser Ile Phe Leu Ala Met Thr Asp Gln Asp Ser Thr Tyr Arg Pro Arg
1               5                   10                  15
Ser Pro Asp Leu Ser Thr Phe Gln Ser Ser Val Pro Pro Ala Val Asn
            20                  25                  30
Ser Pro Ile Tyr Pro Leu Ala Ser Pro Leu Ala His Arg Ala Ser Tyr
        35                  40                  45
Asp Ala Ser Pro Phe Phe Ala Pro Gln Tyr Gln Gln Pro Pro Ala Pro
    50                  55                  60
Leu Gly Arg Val Pro Gln Gln Tyr Ile Pro Pro Phe Val Asp Pro Asn
65                  70                  75                  80
Ser Pro Leu Ser Pro Asp Met Ala Arg Arg Ser Ser Arg Leu Ala Arg
                85                  90                  95
Ala Thr Glu Val Ala Pro Met Pro Glu Val Ser Tyr Ala Gln Pro Val
            100                 105                 110
Leu Ser Glu Glu Pro Gln Gln Leu Pro Pro Pro Pro Pro Gln Pro Asn
        115                 120                 125
Pro Val Ala Ser Ile Glu Val Lys Thr Lys Phe Pro Val Ala Arg Ile
    130                 135                 140
Lys Arg Ile Met Gln Ala Asp Glu Asp Val Gly Lys Val Ala Gln Val
145                 150                 155                 160
Thr Pro Ile Ala Val Cys Thr Cys Ile Pro Leu His Phe Val Pro Ala
                165                 170                 175
Ser Leu Glu Ser Val Leu Thr Ala Ile Val Ile
            180                 185
```

<210> 22617

<211> 201
<212> PRT
<213> A.fumigatus

<400> 22617
Leu Ser Glu Gln Ala Phe Ser Leu Ser Asp Thr Pro Ile Glu Cys Asn
1 5 10 15
Met Thr Lys Ser Ala Phe Leu Phe Leu Asp Ile Gln Asn Gly Ile Val
20 25 30
Glu Arg Leu Asp Asp Pro Asp Thr Tyr Leu Ala Ser Leu Ala Pro Val
35 40 45
Ile Lys Ala Ala Arg Lys Ser Val Val Lys Val Ile Tyr Val Lys Thr
50 55 60
Ala Phe Arg Glu Gly Tyr Pro Asp Thr His Pro Arg Ser Thr Met Gly
65 70 75 80
Thr Arg Val Arg Glu Ser Gln Ser Phe His Glu Gly Asp Ile Ser Val
85 90 95
Glu Ile Pro Ser Ile Val Ser Pro Asp Ala Asn Glu Pro Ile Ile Thr
100 105 110
Lys Arg Arg Val Ser Ala Phe Thr Ala Thr Asp Leu Asp Leu Val Leu
115 120 125
Arg Cys Leu Gly Ala Glu His Leu Val Val Val Gly Leu Ile Thr Ser
130 135 140
Gly Ala Val Leu Ser Thr Val Arg Gln Ala Ala Asp Leu Asp Tyr Gln
145 150 155 160
Leu Thr Val Leu Glu Asp Leu Cys Met Asp Arg Asp Gln Glu Val His
165 170 175
Asp Val Leu Met Lys Lys Val Leu Ser Arg Gln Ala Arg Val Val Ser
180 185 190
Ser Ala Glu Trp Leu Ala Glu Leu Asp
195 200

<210> 22618
<211> 100
<212> PRT
<213> A.fumigatus

<400> 22618
Phe Leu Leu Val Cys Cys Ile Leu Ile Leu Arg Gly Ser Ala Tyr Asn
1 5 10 15
Leu Ser Gln Met Ala Ser Arg Ser Pro Ser Glu Glu Ala Pro Lys Pro
20 25 30
Ala Pro Phe Ser Asn Phe Pro Gln Asp Pro Ala Glu Phe Asp Ser Asp
35 40 45
Pro Arg Ile Ser Phe Ser Lys Leu Asp Asn Lys Phe Ile Leu Glu Thr
50 55 60
Glu Asp Gly Gln Glu Phe Glu Tyr Asp Thr Val Leu Lys Arg Trp Ile
65 70 75 80
Pro Thr Val Cys Ala Arg Phe Leu Cys Ser Trp Ser Ile Pro Phe Val
85 90 95
Ser Cys Asp Arg
100

<210> 22619
<211> 83
<212> PRT

<213> A.fumigatus

<400> 22619
Asn Asp Gly Phe Arg Arg Cys Val Arg Ala Ser Ser Ala Ala Gly Arg
1 5 10 15
Phe Pro Leu Tyr Leu Ala Ile Val Glu Leu Leu Pro Phe Leu Ser Pro
20 25 30
Ser Cys Tyr Glu Leu Pro Phe Tyr His Thr Val Phe Phe Pro Leu Ala
35 40 45
Lys Tyr His Ile Trp Ser Thr Ala Phe Asp Cys Arg Tyr Thr Ala Ile
50 55 60
Ala Val Ala Thr Trp Ser Val Phe Thr Thr Gly Leu Ala Gly Ser Ala
65 70 75 80
Leu Ser Val

<210> 22620
<211> 229
<212> PRT
<213> A.fumigatus

<400> 22620
Leu Pro Pro Leu Leu Val Glu Met Gly Met Met Glu Asn Asn Asn Arg
1 5 10 15
Phe Arg Ser Tyr Ser Val Asn Ala Lys Glu Lys Tyr Ala Asp Asp Glu
20 25 30
Ile Leu Glu Tyr Ala Thr Arg Tyr Ser Gln Ile Pro Ser Gly Thr Val
35 40 45
Thr Leu Ser Ala Ala Ala Thr Ala Ala Gln Leu Ala Ala Thr Gln Ala
50 55 60
Gln Ile His Gln His Asn Leu Ala Val Gln Ala Phe Ala Asn His Ala
65 70 75 80
Ser Val Asn Arg Pro Arg Ala Arg Thr Ala Gly Val Leu Glu Ala Pro
85 90 95
Pro Gln Arg Ser Ser Ile Arg Asn Tyr Leu Ala Thr Pro Ser Arg Leu
100 105 110
Glu Asn Ser Phe Ser Ala Ala Asp Leu His Ile Ala Glu Thr Gly Glu
115 120 125
Tyr Asp Glu Leu Ser Glu Ala Val Gln Met Met Asn Leu Gly Gly Asn
130 135 140
Gly Gly Gln Asn Leu Gly Leu Arg Ala Ser Gly Glu Ala Ala Asp Glu
145 150 155 160
Ser Asn Gln Asp Gly Pro Thr Arg Ala Leu Trp Ile Gly Ser Ile Pro
165 170 175
Val Ser Thr Thr Val Thr Ser Leu Glu Ala Ile Phe Gly Ile Tyr Gly
180 185 190
Lys Ile Glu Ser Thr Arg Val Leu Thr His Lys Asn Cys Gly Phe Val
195 200 205
Asn Phe Glu Arg Leu Glu Ser Ala Val Gln Ala Lys Ser Leu Leu Asn
210 215 220
Gly Lys Glu Ile Phe
225

<210> 22621
<211> 125
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (113)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22621
Arg Ser Gln Thr Asp Ser Ser Gly Gly Gly Gly Asp Leu Thr Thr Met
1 5 10 15
Thr Arg Thr Ser Thr Pro Pro Thr Leu Leu Gln Leu Gln Ser Ala Asp
20 25 30
Ser Val Ser Ser Gln Ala Ala Val Leu Arg Ser Leu Lys Asn Glu Thr
35 40 45
Ile Gly His Asp Gln Arg Lys Glu Ile Tyr Ile Lys Arg Gly Ile Ile
50 55 60
Pro Val Leu Thr Lys Val Leu Thr Ser Arg Lys Leu Ser Gly Gly Ser
65 70 75 80
Val Thr Ala Pro Val Lys Glu Ser Ser Gly Ile Lys Ser Glu Glu Asp
85 90 95
Asp Ala Cys Leu Gln Ala Ile Ile Ile Leu Gly Ser Leu Ala Gln Gly
100 105 110
Xaa Phe Pro Val Ile Cys Pro Asn Asn Ala Ser Gly His
115 120 125

<210> 22622
<211> 86
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3),(12),(18),(22),(23),(31),(40),(41),(78)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22622
His Asn Xaa Thr Asn Leu Gly Val Asn Asp Leu Xaa Gly Met Glu Lys
1 5 10 15
Ile Xaa Arg Asp Lys Xaa Xaa Leu Arg Ile Trp Ile Thr Ser Xaa Tyr
20 25 30
Leu Phe Glu Ile Arg Thr Leu Xaa Xaa Val Ile Ala Leu His Lys Arg
35 40 45
Ser Ile Ser Thr Gln Leu Ile Leu Arg Asn Leu Leu Ser Met Ile Leu
50 55 60
His Gly Lys Trp Thr Gly Ala Leu Thr Trp Gly Asn Cys Xaa Leu Phe
65 70 75 80
Ser Thr Ser Trp Cys Ser
85

<210> 22623
<211> 78
<212> PRT
<213> A.fumigatus

<400> 22623
Pro Val Ala Met Asn Arg Ser Ile Thr Ser Ile Asn Ser Arg Ala Cys

```
1               5                   10                  15
Ile Gln Thr Leu Tyr Trp Ser Leu Asn Pro Ser Ile Pro Pro Gln Arg
            20                  25                  30
Ser Cys Phe Ser Trp Thr Ala Leu His Leu Pro Tyr Trp Ser Asn Gly
        35                  40                  45
Ala Leu Gln Gly Glu Asn Ser Pro Asp Tyr Pro Arg Ser Ser Gln Ser
    50                  55                  60
Thr Phe Ile His Arg His Arg Gln Lys Pro Ile Gln Ser Cys
65                  70                  75
```

<210> 22624
<211> 74
<212> PRT
<213> A.fumigatus

<400> 22624

```
Trp Tyr Val Thr Glu Lys Ser Val Val Ile Ser Leu Leu Thr Ile Ile
1               5                   10                  15
Gly Ser Glu Arg Ala Arg Thr Ala Lys Thr Ala Gly Ser Thr Leu Ala
            20                  25                  30
Glu Ala Gly Lys Ile Asn Glu Ser Leu Met Tyr Leu Gly Gln Cys Leu
        35                  40                  45
Gln Met Gln Ser Glu Ile Gln Glu Gly Lys Val Arg Phe Met Met Pro
    50                  55                  60
Thr Ile Leu Phe Pro Cys Leu His His Gly
65                  70
```

<210> 22625
<211> 264
<212> PRT
<213> A.fumigatus

<400> 22625

```
Thr Glu Ala Leu Arg Pro Ser Ile Pro Gly Arg Ala Ser Lys Pro Ser
1               5                   10                  15
Thr Gly Pro Ser Thr Pro Gln Ser Pro Leu Lys Gly Ala Val Ser Pro
            20                  25                  30
Gly Pro Arg Cys Thr Tyr Arg Ile Gly Pro Thr Ala Leu Phe Lys Glu
        35                  40                  45
Arg Ile Arg Arg Thr Ile Leu Gly Pro Pro Lys Ala Pro Leu Phe Thr
    50                  55                  60
Ala Thr Asp Arg Ser Pro Phe Asn His Ala Lys Gln Ser Ser His Ile
65                  70                  75                  80
Leu Gln Glu Pro Thr Pro Ala Leu Ile Phe Pro Arg Arg Asn Met Pro
                85                  90                  95
Gln Lys Pro Asn Val Leu Pro Arg Leu Pro Asp Val Ser His Leu Thr
            100                 105                 110
Val Glu Leu Asn His Asn Ser Glu Tyr Ile Val Leu Val Ser Met Tyr
        115                 120                 125
Glu Val Tyr Asn Asp Arg Ile Phe Asp Leu Leu Ser Pro Ala Val Val
    130                 135                 140
Pro Gly Gln Gly Ser Ala Met Ser Arg Gln Gly Ala Asn Ala Gln Lys
145                 150                 155                 160
Asp Arg Arg Arg Pro Leu Leu Tyr Lys Ser Thr Glu Gly Ser Pro Asp
                165                 170                 175
Arg Lys Val Val Ala Gly Leu Arg Lys Ile Ala Cys Ser Thr Tyr Glu
```

```
            180                 185                 190
Glu Ala Leu Ala Val Leu Glu Val Gly Met Thr Glu Arg Arg Val Thr
        195                 200                 205
Gly Thr Ser Ala Asn Ser Val Ser Ser Arg Ser His Gly Phe Phe Cys
    210                 215                 220
Leu Glu Val Lys Arg Arg Met Arg Asn Lys Arg Thr Gly Glu Glu Thr
225                 230                 235                 240
Trp Ile Gly Asn Thr Leu Thr Val Ala Asp Leu Asp Gly Thr Ser Leu
                245                 250                 255
Arg Asn Arg Leu Ser Phe Leu Phe
            260
```

<210> 22626
<211> 231
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22626

```
Ser Xaa Xaa Leu Gln Lys Ser Ser Ser Phe Thr Glu Leu Ile Gly His
1               5                   10                  15
Ala Val Ser Leu Asn Lys Lys Ser Ser Ser Val Gly Glu Thr Glu Cys
            20                  25                  30
Gly Ile Gly Asn Thr Cys Ala Trp Lys Met Cys Gly Ile Asp Pro Ser
        35                  40                  45
Ser Ser Tyr Gly Val Tyr Phe Glu Ile Ala Asn Gln Gly Gly Pro Ala
    50                  55                  60
Ala Val Gln Pro Gly Leu Gln Arg Gly Met Met Gln Phe Leu Thr Tyr
65                  70                  75                  80
Tyr Gln His Ala Ser Gly His Tyr His Leu Arg Val Thr Thr Val Ala
                85                  90                  95
Arg Pro Leu Ser Gly Pro Ala Gly Asp Pro Thr Leu Ala Gln Ser Phe
            100                 105                 110
Asp Gln Glu Ala Ala Ala Val Leu Met Ala Arg Ile Ala Val Tyr Lys
        115                 120                 125
Ala Asp Val Asp Asp Gly Pro Asp Val Ile Arg Trp Val Asp Arg Met
    130                 135                 140
Leu Ile Arg Leu Cys Ser Arg Phe Ala Asp Tyr Arg Lys Asp Asp Pro
145                 150                 155                 160
Thr Ser Phe Arg Leu Glu Lys Asn Phe Thr Leu Tyr Pro Gln Phe Met
                165                 170                 175
Phe His Leu Arg Arg Ser Gln Phe Leu Gln Val Phe Asn Asn Ser Pro
            180                 185                 190
Asp Glu Thr Ala Phe Tyr Arg His Val Leu Asn His Glu Asp Val Gly
        195                 200                 205
Asp Ala Leu Val Met Ile Gln Pro Thr Leu Asp Ser Tyr Phe Leu Glu
    210                 215                 220
His Glu Gly Ser Gln His Gly
225                 230
```

<210> 22627
<211> 78

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15),(42),(61),(62)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22627
Ile Leu Pro Gly Ala Trp Thr Ser Cys Phe Leu Glu Arg Arg Xaa Gly
1 5 10 15
Gln Leu His Gly Gly His Arg Phe Leu Thr Asp Ser Ser Thr Ser Ser
20 25 30
Gln Phe Lys Arg Cys Leu Val Arg Val Xaa Asp Lys Asn Ala Asn Asp
35 40 45
Asn Phe Trp Met Gly Phe Asn Ala Ser Leu Glu Val Xaa Xaa Tyr Lys
50 55 60
Arg Ala Gln Val Ser Pro Asn Leu Ser Val Met Gln Phe Leu
65 70 75

<210> 22628
<211> 139
<212> PRT
<213> A.fumigatus

<400> 22628
Leu Pro Ala Asn Leu Glu Gln Leu Glu Ser Ala Pro Pro Pro Ser Ser
1 5 10 15
Ala Val Phe Val Met Ala Ala Asn Gln Asp Thr Pro Thr Lys Val Pro
20 25 30
Asp Gly Gln Pro Asn Pro Val Met Val Gly Pro Gly Met Lys Ser Leu
35 40 45
Gly Glu Glu Ala Tyr Thr Asn Ala Ser Asn Ala Thr Pro Ser Leu Glu
50 55 60
Thr Asp Lys Lys His Pro Leu Val Asn Asp Ala Pro Ser Tyr Phe Ser
65 70 75 80
Gln Val Pro Gly Thr Lys Gln Ser Ser Thr Val Ser Asp Thr Ala Leu
85 90 95
Pro Gly Ser Pro Ala Asp Ala Ala Arg Asp Ala Lys Ser Pro Ile Glu
100 105 110
Leu Leu Arg Arg Leu Ser Leu Gly Arg Ser Pro Met Ile Pro Asp Val
115 120 125
Asp Pro Arg Glu Gln Tyr Pro Gly Leu Asn Leu
130 135

<210> 22629
<211> 139
<212> PRT
<213> A.fumigatus

<400> 22629
Tyr Gln Arg Gly His Arg Ala Ala Val Leu Gln Val Thr Asp Lys Gly
1 5 10 15
Asp Ile Ala Ser Ser Ser Val Leu Gly Phe Gly Phe Ser Leu Val Arg
20 25 30
Glu Phe His Leu Val Asp Gly Tyr Ser Ala Val Gly Thr Lys Leu Phe

```
        35                  40                  45
Ile Val Val Leu Pro Ile Ser Ile Phe Ile Ser Ser Ala Val Ile Phe
    50                  55                  60
Phe Asn Leu Leu Ala Ser Leu Leu Val Thr Ser Asn Leu Ala Leu Arg
65                  70                  75                  80
Leu Ile Leu Ile Pro Leu Pro Asn Tyr Arg Val Arg Arg Leu Asn Pro
                85                  90                  95
Trp Pro Pro Met Pro Lys Arg Pro Pro Ile His Pro Leu Pro Phe Pro
            100                 105                 110
Lys Leu Asp Leu Ser Ile Phe Ala Ala Tyr Gln His Phe Leu Val Pro
        115                 120                 125
Trp Asp Pro Pro Gln Lys His Pro Ser Gly Tyr
    130                 135
```

<210> 22630
<211> 166
<212> PRT
<213> A.fumigatus

<400> 22630

```
Arg Arg Gly Thr Thr Ala Gly Gly Ser Ile Ser Gly Gly Val Phe Leu
1               5                   10                  15
Arg Gly Val Pro Arg His Glu Lys Val Leu Val Ser Cys Glu Asp Gly
            20                  25                  30
Glu Ile Glu Phe Gly Glu Gly Glu Arg Met Asn Arg Trp Thr Leu Trp
        35                  40                  45
His Arg Arg Pro Trp Ile Glu Thr Pro Asp Thr Val Val Gly Glu Trp
    50                  55                  60
Asp Glu Asn Gln Ser Glu Gly Glu Val Ala Gly Asp Glu Glu Gly Ser
65                  70                  75                  80
Glu Glu Ile Glu Glu Asp Asp Gly Gly Ala Asp Glu Asp Gly Asp Gly
                85                  90                  95
Glu Asp Asn Asp Glu Lys Leu Arg Ala Asp Cys Ala Val Ala Ile His
            100                 105                 110
Glu Val Lys Leu Ala Asn Glu Thr Glu Thr Glu Thr Glu Asp Gly Gly
        115                 120                 125
Arg Ser Tyr Val Pro Phe Ile Gly His Leu Glu Asp Ser Arg Ser Met
    130                 135                 140
Ala Ser Leu Ile Leu Gly Ile Cys Gly Val Phe Thr Thr Gly Leu Gly
145                 150                 155                 160
Gly Ala Thr Cys Ser Gln
                165
```

<210> 22631
<211> 243
<212> PRT
<213> A.fumigatus

<400> 22631

```
Asp Gly Gln Thr Lys Lys Ala Leu Asn Leu Ile Leu Ser Asp Leu Lys
1               5                   10                  15
Asp Val Ser Leu Ala Ile Ser Phe Ala Lys Ser Gln Asp Asp Pro Asp
            20                  25                  30
Leu Trp Glu Asp Leu Leu Asn Tyr Ser Met Asp Lys Pro Arg Phe Ile
        35                  40                  45
His Gly Leu Leu Val Glu Ala Gly Thr Ser Ile Asp Pro Ile Lys Leu
```

```
    50                  55                  60
Val Arg Arg Ile Pro Ser Gly Leu Glu Ile Glu Gly Leu Arg Glu Gly
65                  70                  75                  80
Leu Thr Arg Met Ile Arg Glu His Asp Leu Gln Ala Ser Ile Ser Gln
                85                  90                  95
Gly Ala Ala Lys Val Leu Gln Ser Glu Val Ala Val Gly Met Ala Thr
            100                 105                 110
Leu Arg Lys Gly Gln Gln Arg Gly Ile Lys Phe Asn Ile Ile Glu Glu
        115                 120                 125
Lys Ala Val Ser Asp Thr Gly Asp Arg Asn Glu Ala Ser Ser Asn Thr
    130                 135                 140
Asp Thr Glu Lys Ala Leu Ser Pro Ser Arg Pro Pro Thr Phe Gln Pro
145                 150                 155                 160
Gly Arg Cys Ala Gly Cys His Leu Pro Phe Tyr Pro Asn Gly Lys Leu
                165                 170                 175
Pro Cys Leu Asp Tyr Thr Lys Met Ser Ser Val Leu Ile His Tyr Val
            180                 185                 190
Arg Val Lys Lys Arg Lys Ser Ser Leu Ala Ser His Val Asp Met Ser
        195                 200                 205
Ser Thr Tyr Arg Thr Phe Thr Arg Met Ile Pro Gln Gln Pro Arg Thr
    210                 215                 220
Glu Thr Ser Pro Glu Cys Arg Pro His Ala Arg Cys Gln Lys Leu Ala
225                 230                 235                 240
Tyr Pro Pro
```

<210> 22632
<211> 115
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (113),(114)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 22632
Ala Thr Leu Leu Arg Leu Tyr Lys Asn Val Leu Ser Val Asp Pro Leu
1               5                   10                  15
Cys Ser Arg Lys Glu Lys Glu Ile Leu Val Gly Phe Ala Cys Gly His
            20                  25                  30
Val Phe His Leu Ser His Val His Ser Asp Asp Thr Ser Thr Thr Ser
        35                  40                  45
Asp Gly Asn Gln Ser Gly Met Gln Thr Pro Arg Pro Leu Pro Glu Ile
    50                  55                  60
Gly Ile Ser Thr Leu Asn Glu Leu Pro Leu Ser Met Ser Ser Thr Val
65                  70                  75                  80
Gly Ala Lys Val Thr Thr Ala Arg Leu Leu Arg Asp Arg Ile Gly Asn
                85                  90                  95
Gly Cys Arg Ile Cys Ser Leu Ala Lys Glu Ile Glu Ala Leu Gly Glu
            100                 105                 110
Xaa Xaa Thr
        115
```

<210> 22633
<211> 89

<212> PRT
<213> A.fumigatus

<400> 22633
Gly Gly His Ala Asn Ser Asp Phe Ala Leu Lys Asp Leu Gly Gly Thr
1 5 10 15
Leu Ala Asp Thr Arg Leu Gln Val Val Phe Thr Asn His Ala Gly Glu
20 25 30
Ala Phe Pro Gln Pro Phe Asp Phe Lys Ser Ala Trp Asp Ala Ser Asp
35 40 45
Lys Phe Asp Arg Val Asp Gly Arg Ala Ser Leu Asn Lys Glu Pro Val
50 55 60
Asp Glu Ala Trp Leu Val His Gly Val Val Glu Lys Val Phe Pro Lys
65 70 75 80
Ile Arg Ile Ile Leu Arg Leu Gly Lys
85

<210> 22634
<211> 293
<212> PRT
<213> A.fumigatus

<400> 22634
Arg Ser Lys Phe Leu Val Gln Lys Val Thr Gln Val Pro Glu Leu Pro
1 5 10 15
Asn Met Leu Phe Gly Pro Ile Leu Phe Trp His Asp Asp Glu Ser Met
20 25 30
Ile Thr Asp Glu Thr Ala Lys Val Phe Leu Arg His Leu Leu Ser Lys
35 40 45
Gly Lys Thr Gln Val Arg Asp Leu Arg Val Glu Ser Asp Gln Lys Arg
50 55 60
Arg Glu Val Asp Asn Ala Lys Arg Val Arg Glu Asn Val Arg Gln Gly
65 70 75 80
Lys Asp Asn Arg Asn Glu Val Glu Val Val Arg Ser Ile Phe Phe Leu
85 90 95
Gln Glu Ala Leu His Glu Val Glu Arg Lys Arg Leu Ala Ala Glu Val
100 105 110
Glu Thr Ser Thr Ile Ile Ser Val Val Gly Asp Leu Ser Leu Gly Ala
115 120 125
Lys Asn His Asn Phe Lys Ser Gln Thr Phe Lys Ile Pro Thr Asn Cys
130 135 140
Asp Leu Cys Gly Glu Arg Ile Trp Gly Leu Ser Ala Lys Gly Phe Asp
145 150 155 160
Cys Arg Asp Cys Gly Tyr Thr Cys His Ser Lys Cys Gln Met Lys Val
165 170 175
Pro Ala Glu Cys Pro Gly Glu Gln Thr Lys Glu Glu Lys Lys Lys Leu
180 185 190
Lys Ala Glu Arg Gln Glu Gln Ala Gly Ala Met Pro Ala Leu Asp Ile
195 200 205
Thr Pro Ser Asn Gly Thr Ser Ala Ala Pro Ser Leu Thr Arg Gln Asn
210 215 220
Thr Met Asn Ser Leu Ser Ser Gly Tyr Ala Ala Ser Ala Asn Arg Ser
225 230 235 240
Leu Ser Asn Val Thr Ser Gln Pro Ala Ser Ala Thr Glu Pro Ala Ala
245 250 255
Pro Ala Thr Pro Ala Ala Pro Ala Glu Thr Lys Pro Ala Val Ala Ala

```
            260                 265                 270
Pro Lys Arg Asn Arg Ile Val Ala Pro Leu Ser Gly Thr Val Cys Tyr
        275                 280                 285
Arg Ser Ser Pro Lys
    290
```

<210> 22635
<211> 135
<212> PRT
<213> A.fumigatus

<400> 22635

```
Leu Arg Ser Leu Asp Gly Ser Gly Trp Met Arg Val Arg Ala Gly Ser
1               5                   10                  15
Arg Gln Gly Leu Val Pro Ala Ser Tyr Val Glu Val Leu Pro Thr Ala
            20                  25                  30
Ser His Ala Pro Thr Ala Ser Pro Gly Ile Thr Asp Arg Pro Gly Ser
        35                  40                  45
Thr Tyr Ser Asn Ser Ser Ala Ser Leu Ser Gly Ser Met Ala Ala Lys
    50                  55                  60
Arg Val Gly Pro Ala Val Ala Pro Arg Arg Gly Ala Lys Lys Leu Gln
65                  70                  75                  80
Tyr Val Glu Ala Leu Tyr Asp Tyr Glu Ala Arg Ser Asp Met Glu Trp
                85                  90                  95
Ser Met Val Glu Gly Asp Arg Phe Val Leu Val Asn Arg Asp Ser Gly
            100                 105                 110
Asp Gly Trp Ala Asp Val Glu Arg Gly Gly Val Thr Lys Ser Val Pro
        115                 120                 125
Ala Asn Tyr Ile Gln Glu Val
    130                 135
```

<210> 22636
<211> 78
<212> PRT
<213> A.fumigatus

<400> 22636

```
Gln Leu Phe Thr Ile Leu Pro Gln Val Val Ala Arg Ile Cys His Pro
1               5                   10                  15
His Ala Thr Val Tyr Glu Leu Leu Thr Arg Ile Val Ala Lys Val Ala
            20                  25                  30
Asn Ala Phe Pro Gln Gln Gly Leu Trp Thr Val Leu Ala Val Val Lys
        35                  40                  45
Ser Ser Ser Lys Asp Arg Ala Ser Arg Gly Ile Asn Cys Leu His Lys
    50                  55                  60
Ile Thr Val Ser Ala Gln Asn His Arg Ile Glu Val Thr Tyr
65                  70                  75
```

<210> 22637
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22637

```
Leu Lys Asn Ser Ser Ser Leu Ser Gly Glu Ala Ser Lys Leu Val Ile
1               5                   10                  15
```

```
Asp Asn Tyr Leu Arg Ser Leu Ala His Gly Asn Lys Tyr Val Phe Gln
            20                  25                  30
Ser Leu Pro Arg Ile Leu Thr Leu Trp Leu Glu His Ala Ala Thr Val
        35                  40                  45
Asp Lys Pro Phe Asp Pro Lys Arg Gly Asp Asn Glu Tyr
    50                  55                  60
```

<210> 22638
<211> 79
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22638

```
Ile Lys Thr Leu Ser Ile Pro Ile Phe Ile Ile Phe Ser Phe Pro Arg
1               5                   10                  15
Arg Phe Gly Gln Leu Leu Ile Cys His Leu Val Tyr Leu Gly Ile Tyr
            20                  25                  30
Cys Ala Phe Gly Arg Ser Gly Xaa Arg Gln Lys Arg Thr Gln Pro Pro
        35                  40                  45
Pro Met Asn Pro Leu Glu Lys Lys Val Leu Asp Met Gly Pro Ile Met
    50                  55                  60
Tyr Glu Trp Ser Asp Lys Phe Tyr Gly Met Gly Glu Cys Lys Met
65                  70                  75
```

<210> 22639
<211> 181
<212> PRT
<213> A.fumigatus

<400> 22639

```
Val Asn Gly Leu Gln Pro Thr Pro Ala Pro Phe Glu Pro Val Met Glu
1               5                   10                  15
Ile Ser Asn Pro Phe Thr Cys Asn Glu Ser Ser Ile Leu Ser Glu Ile
            20                  25                  30
Asn Ser Ser Ser Glu Pro Thr Thr Cys Asn Pro Val Ser Asn Asn Phe
        35                  40                  45
Gly Gly Ser Arg Ala Ser Pro Leu His Arg Ala Val Gln Met Gly His
    50                  55                  60
Ser Lys Ile Val Arg Leu Leu Leu Glu His Asn Ala Asn Cys Asn Glu
65                  70                  75                  80
Lys Asp Ser Asp Gly Leu Thr Pro Leu Ile His Ala Ile Ile Gly Gly
                85                  90                  95
Tyr Glu Asp Met Val Asp Met Leu Leu Ser His Gly Ala Ser Ile Gly
            100                 105                 110
Leu Val Asp Asp Glu His Arg Ser Ala Leu His Trp Ala Val Ile Arg
        115                 120                 125
Arg Arg Asp Arg Leu Leu Thr Arg Val Leu Lys His Cys Val Gly Asn
    130                 135                 140
Ser Thr Leu Val Asn Gln Cys Thr Lys Asp Gly Arg Thr Pro Leu Leu
145                 150                 155                 160
Ile Ala Ile Asp Ile Gly Phe Glu Ala Ala Val Glu Val Leu Leu Glu
```

```
                165                 170                 175
Ser Gly Ala Val Val
            180
```

<210> 22640
<211> 193
<212> PRT
<213> A.fumigatus

<400> 22640

```
Met Leu Leu Arg Val Arg Asn Ser Ser Cys Ala Gly Ala Gln Ala Gly
1               5                  10                  15
Glu Ser Leu His Arg Val Arg Leu Val Tyr Pro Lys Ala Arg Leu Thr
            20                  25                  30
Leu His Thr Ser Gly Lys Ser Thr Leu Leu Leu Ser Leu Leu Arg Leu
        35                  40                  45
Leu Glu Leu Gln Ser Gly Gln Ile Glu Leu Asp Gly Val Asp Ile Ser
    50                  55                  60
Gln Val Arg Leu Asp Ile Leu Arg Arg Arg Cys Phe Val Ala Val Ser
65                  70                  75                  80
Gln Asp Pro Leu Leu Leu Pro Asn Glu Thr Leu Arg Phe Asn Leu Asp
                85                  90                  95
Pro Asp Ala Ser Ile Ser Asp Asp Ala Leu Val Val Ala Leu Asn Lys
            100                 105                 110
Val Gly Leu Trp Ser His Phe Phe Glu Gly His Thr Tyr Phe Gly Gly
        115                 120                 125
Glu Pro Ala Thr Val Ile Asn Ile Pro Gly Ser Asn Glu His Pro Ile
    130                 135                 140
Leu Asp Gln Lys Val Ser Ile Phe Gln Glu Leu Ser Val Arg Gln Arg
145                 150                 155                 160
Gln Leu Phe Ala Leu Cys Gln Ala Leu Val Lys Val Ser Ser Phe Arg
                165                 170                 175
Thr Phe Trp Ser Glu Thr Pro Trp Phe Ser Trp Thr Ser Leu His Pro
            180                 185                 190
Ser
```

<210> 22641
<211> 94
<212> PRT
<213> A.fumigatus

<400> 22641

```
Asp Arg Gln Ala Arg Arg Arg Leu Tyr Val Pro Trp Leu Cys Trp Ser
1               5                  10                  15
His Val Pro Leu His Val Leu Trp Leu Leu Arg Arg Ser Phe Pro Asp
            20                  25                  30
Val Arg Ile Leu Val Ser Leu His Asn Gly Leu Leu Gly Ile Phe Val
        35                  40                  45
Thr Ser Thr Glu Phe Val Ser Glu Thr Leu Thr Thr Phe Arg Phe Met
    50                  55                  60
Gly Ser Leu Thr Asn Asn Gly Arg Lys Leu Ala Asn Phe Ala Gly Phe
65                  70                  75                  80
Tyr Lys Gly Ile Gln Ser Ala Gly Ala Ala Gly Met Trp Arg
                85                  90
```

<210> 22642
<211> 82
<212> PRT
<213> A.fumigatus

<400> 22642
Leu Val Leu Pro Ser Lys Thr Ala Gly Thr Gln Leu Arg Glu Ser Gln
1 5 10 15
Ser Gln Ser Met Cys Pro Arg Pro Lys Ser Pro Leu Glu Asn Phe Asp
20 25 30
Ser Leu Gln Pro Asn Ile Leu Thr Cys Cys Val Gly Ala Gln Tyr Asp
35 40 45
Asn Met Ile Leu Leu His Ile Cys Ile Gly Gln Asp Phe Tyr Tyr Cys
50 55 60
Ile Thr Ala Phe Leu Val Met Phe Arg Leu Leu Arg Arg Gly Trp Met
65 70 75 80
Phe Glu

<210> 22643
<211> 104
<212> PRT
<213> A.fumigatus

<400> 22643
Arg Leu Asn Ile Arg Thr Arg Ser Leu Asn Ser Leu Leu Tyr Trp Leu
1 5 10 15
Met Gln Met Val Gly Ala Phe Val Phe Gly Lys Leu Leu Asp Leu Gln
20 25 30
Phe Leu Ser Arg Ser Met Arg Ala Lys Leu Asn Trp Leu Ile Leu Leu
35 40 45
Val Ile Thr Met Gly Val Trp Gly Gly Gly Tyr Ala Phe Gln Lys Gln
50 55 60
Tyr Thr Leu Glu Thr Ala Lys Gln Asp Val Asp Phe Thr Ser His Gly
65 70 75 80
Tyr Val Gly Pro Met Phe Leu Tyr Met Phe Tyr Gly Phe Tyr Asp Ala
85 90 95
Ala Phe Gln Thr Cys Ala Tyr Trp
100

<210> 22644
<211> 92
<212> PRT
<213> A.fumigatus

<400> 22644
Thr Cys Lys Gly Ile Leu Val Asp Met Ser Asp Ile Cys Ser Met Asp
1 5 10 15
Ala Glu Lys Thr Pro Phe Met Thr Gln Phe Ala Ser Cys Trp Gly Leu
20 25 30
Leu Val Gly Ser Leu Leu Ile Ala Ser Pro Ile Ile Phe Phe Lys Ile
35 40 45
Lys Asp His Val Asp Val Glu Glu Asp Leu Lys Phe Ser Asp Glu Thr
50 55 60
Thr Glu Asp Val Thr Gly Ile Ala Ile Glu Asp Arg Arg Asp Ser Thr
65 70 75 80

Lys Gly Glu Ser Val Thr Lys His Val Ser Ala Ser
85 90

<210> 22645
<211> 116
<212> PRT
<213> A.fumigatus

<400> 22645
Val Val Pro Leu Pro Thr Leu Ile His Asn Phe Ser Leu Phe Thr Gly
1 5 10 15
Trp Glu Ala Ile Arg Glu Trp Pro Ala Leu Thr Ala Thr Phe Gln Thr
20 25 30
Ala Cys Asn Val Tyr Leu Ile Phe Ser Ala Asn Lys Ser Gly Glu Tyr
35 40 45
Tyr Gly Tyr Ala Arg Met Met Ser Pro Ile Lys Glu Asp Glu Thr Leu
50 55 60
Ala Leu Glu Met Pro Val Arg Pro Asp His Gly Pro Pro Glu Pro Val
65 70 75 80
Glu Leu His Val Val Pro Thr Gln Ala Thr Ala Thr Ala Pro Thr Gly
85 90 95
Arg Ile Ile Asp Asp Ser Ala Ser Ser Pro Arg Arg Leu Glu Gly Arg
100 105 110
Thr Ile Gln Ala
115

<210> 22646
<211> 70
<212> PRT
<213> A.fumigatus

<400> 22646
Val Thr Ser Val Cys Ala Leu Ser Cys Tyr Cys Ala Leu Glu Asp Val
1 5 10 15
Phe Glu Ile Asp Tyr Leu Pro Val Trp Lys Tyr Met Ser Arg Phe Leu
20 25 30
Asp Gly Leu Ile Pro Ser Gln Ser Gly Arg Ala Arg Pro Asn Ile Tyr
35 40 45
Leu Arg Thr Leu Asn Phe Leu Glu Thr Ile Glu Gln His Arg Asp Trp
50 55 60
Ile Ile Ser Arg Ser Ala
65 70

<210> 22647
<211> 223
<212> PRT
<213> A.fumigatus

<400> 22647
Gly Ser Cys Leu Val Arg Met Arg Glu Thr Glu Gln Asn Ser Leu Asn
1 5 10 15
Arg Arg His Ser Thr Thr Gln His Tyr Gln Thr Phe Asp Thr Pro Pro
20 25 30
Pro Lys Ser Arg Gly Arg Pro Asn Ser Gly Gln Ser Glu Leu Ser Gly
35 40 45
Gly Asn Ser Asn Leu Gln Gln His Gly Ser Gly Ser Asp Asp Glu Ser

```
    50                  55                  60
Arg Ser Pro Leu Pro Lys Lys Gln Met Ala Val Leu Ala Met Ile Ala
65                  70                  75                  80
Leu Cys Glu Gln Thr Ala Leu Asn Ser Ile Ser Pro Tyr Leu Pro Asp
                85                  90                  95
Met Ala Ala Ser Phe Pro Gly Val Glu Ser Gln Ser Val Gly Ile Tyr
            100                 105                 110
Val Gly Thr Ile Ala Ser Ala Phe Ala Leu Ala Gln Phe Ile Thr Asn
        115                 120                 125
Tyr Phe Trp Gly Trp Leu Ser Asp Arg Val Gly Arg Lys Pro Val Ile
    130                 135                 140
Leu Leu Gly Thr Ile Leu Thr Ala Val Cys Met Leu Ala Phe Gly Phe
145                 150                 155                 160
Cys Lys Thr Leu Trp Gln Ala Ile Leu Val Gln Ala Leu Met Gly Ala
                165                 170                 175
Val Asn Gly Asn Gln Gly Leu Val Ser Thr Cys Leu Gly Glu Ile Thr
            180                 185                 190
Asp Arg Ser Asn Gln Ser Lys Ala Phe Thr Tyr Leu Pro Val Leu Tyr
        195                 200                 205
Gly Ile Gly Gly Ile Thr Gly Pro Leu Ile Gly Gly Leu Leu Phe
    210                 215                 220
```

<210> 22648
<211> 128
<212> PRT
<213> A.fumigatus

<400> 22648

```
His Leu Glu Asn Ser Pro Trp Phe Asp Gly Gly Val Lys Met Ala Ser
1               5                   10                  15
Val His Pro Cys Arg His Ala Ser Val Met Lys Thr Leu Leu Asp Arg
            20                  25                  30
Ala Asp Ala Ala Leu Lys Ile Arg Arg Asp Lys Leu Lys Gln Ala His
        35                  40                  45
Ser Ala Asp Gln Ala Asn Arg Ile Asn Ser Glu Arg Gly Leu Glu Gly
    50                  55                  60
Leu Val Asp Glu Thr Arg Gly Leu Ser Leu Asn Glu Gln Gln Gly His
65                  70                  75                  80
Ser Pro Gly Gly Asp Glu Trp Glu Val Leu Gln His Asp Glu Glu Asp
                85                  90                  95
Gln Val Ala Ile Arg Val Asp Gln Tyr Leu Val Val Phe Leu Lys Phe
            100                 105                 110
Ile Ala Ser Val Thr Pro Gly Ile Glu His Asp Phe Thr Met Gly Val
        115                 120                 125
```

<210> 22649
<211> 146
<212> PRT
<213> A.fumigatus

<400> 22649

```
Glu Tyr Tyr Ile Pro Ala Glu Ser Ser Ser Ile His Phe Leu Arg Ser
1               5                   10                  15
Thr Leu Cys Val Gly Cys Ala Arg Gly Phe Glu Val Val Ser Leu Glu
            20                  25                  30
Thr Thr Glu Thr Gln Ser Leu Leu Asp Gln Ala Asp Thr Ser Leu Asp
```

```
        35                  40                  45
Phe Val Ala Arg Lys Glu Asn Val Lys Pro Ile His Ile Glu Arg Met
    50                  55                  60
Asn Gly Glu Phe Leu Leu Asn Tyr Ser Asp Phe Ser Phe Phe Val Asn
65                  70                  75                  80
Arg Asn Gly Trp Arg Ala Arg Pro Asp Trp Lys Ile Ser Trp Glu Gly
                85                  90                  95
Asn Pro Asn Ala Phe Ala Leu Ser Tyr Pro Tyr Ile Leu Ala Phe Glu
            100                 105                 110
Pro Asn Phe Ile Glu Ile Arg His Ile Glu Thr Ser Glu Leu Ile His
        115                 120                 125
Ile Met Thr Gly Lys Asn Ile Arg Met Leu His Ser Ser Thr Arg Glu
    130                 135                 140
Val Cys
145
```

<210> 22650
<211> 255
<212> PRT
<213> A.fumigatus

<400> 22650

```
Arg Lys Ile Ala Arg Asn Glu Gly Thr Leu Ala Leu Trp Arg Gly Leu
1               5                   10                  15
Ser Pro Thr Leu Met Met Ser Ile Pro Ala Asn Val Ile Tyr Phe Ala
            20                  25                  30
Gly Tyr Asp Trp Leu Arg Ala Asp Glu Lys Ser Pro Ile Lys Arg Phe
        35                  40                  45
Phe Pro Ala Ala Tyr Ala Pro Leu Val Ala Gly Ser Val Ala Arg Ile
    50                  55                  60
Ala Ala Ala Ser Ala Ile Ser Pro Ile Glu Met Phe Arg Thr Arg Leu
65                  70                  75                  80
Gln Ala Thr Pro Gly Thr Gly Ala Gly His Phe Lys Ala Thr Leu Glu
                85                  90                  95
Asp Leu His Gln Met Thr Gln Val His Gly Tyr Arg Ala Leu Trp Arg
            100                 105                 110
Gly Leu Thr Leu Thr Met Trp Arg Asp Val Pro Phe Ser Gly Leu Tyr
        115                 120                 125
Trp Trp Gly Tyr Glu Glu Cys Lys Arg Tyr Leu Leu Asp Leu Arg Arg
    130                 135                 140
Glu Ala Tyr Asn His His Leu Leu Arg His Val Ser Ser Ser Ala Leu
145                 150                 155                 160
Gln His Asp Leu Asp Thr Pro Thr Phe Leu Glu Ser Phe Leu Ser Gly
                165                 170                 175
Ala Leu Ser Gly Ser Leu Ala Ala Phe Val Thr Thr Pro Phe Asp Val
            180                 185                 190
Gly Lys Thr Arg Gln Gln Val Phe Arg His Met Gly Asp Gly Gly Pro
        195                 200                 205
Ser Ser Leu Arg Gly Ser Val Ala Pro Glu Thr Leu Arg Pro Glu Gln
    210                 215                 220
Leu Ser Leu Pro Lys Phe Leu Met His Ile Phe Arg Glu Glu Gly Met
225                 230                 235                 240
Ala Ser Leu Phe Arg Gly Trp Val Ala Arg Cys Leu Lys Val Ala
                245                 250                 255
```

<210> 22651

<211> 89
<212> PRT
<213> A.fumigatus

<400> 22651
His Thr Gln Pro Glu Leu Ala His Pro Trp Glu Val Leu His Glu Lys
1 5 10 15
Ala Glu Leu Val Ile Ala Ser Pro Lys Gly Gly Glu Ala Pro Leu Asp
20 25 30
Pro Ala Ser Val Lys Met Phe Glu Asn Asp Pro Val Ala Ser Lys Phe
35 40 45
Leu Asn Glu Gln Lys Ser Leu Trp Thr Asn Thr Val Lys Leu Ser Asp
50 55 60
Val Leu Pro Lys Val Ser Glu Phe Asp Ala Ile Phe Tyr Val Gly Gly
65 70 75 80
His Gly Arg Thr Phe Pro Asp Ser Thr
85

<210> 22652
<211> 83
<212> PRT
<213> A.fumigatus

<400> 22652
Arg Lys Val Ala Met Phe Asp Leu Val Asn Asp Glu Thr Ser Ile Ala
1 5 10 15
Leu Ile Glu Ala Leu Ser Ala Ala Arg Lys Pro Ile Ala Ala Val Cys
20 25 30
His Gly Pro Thr Val Leu Leu Lys Ala Lys Ala Pro Ser Gly Val Pro
35 40 45
Leu Leu Ser Ala Cys Thr Val Asn Gly Phe Ser Asn Thr Glu Glu Glu
50 55 60
Gln Gly Ala Asn Val Val Arg Glu Cys Ile Tyr Ala Gly Arg Arg Ser
65 70 75 80
Cys Lys Lys

<210> 22653
<211> 180
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22653
Ser Ala Ser Thr Thr Thr Gly Tyr Ile Thr Leu Gln Leu Ala Lys Leu
1 5 10 15
Ala Gly Leu Lys Val Ile Cys Val Ala Asp Val Ala Arg His Gly Ala
20 25 30
Lys Leu Leu Asp Xaa Gly Ala Asp Phe Phe Val Asp Arg His Asp Thr
35 40 45
Ala Arg Ala Ala Glu Ile Ile Arg Gly Val Thr Lys Glu Arg Leu Arg
50 55 60

```
Tyr Ala Ile Asp Ile Val Gly Lys Asp Thr Ala Thr Leu Leu Gln Gln
65                  70                  75                  80
Thr Leu Asp Ser Ala Val His Glu Asp Gly Ser His Ala His Leu Leu
                85                  90                  95
Gly Leu Thr Gly Leu Pro Lys Glu Arg Asp Ser Arg Ile Val Tyr His
            100                 105                 110
Thr Val Pro Ile Lys Leu Phe His Thr Ser Pro Ala Val Gly Glu Ala
        115                 120                 125
Met Val Thr Trp Leu Glu Glu Leu Leu Gln Thr Glu Thr Ile Arg Leu
    130                 135                 140
Pro Glu Ile Ile Leu Ala Asp Gly Gly Leu Glu Gly Ile Asn Ala Ser
145                 150                 155                 160
Leu Glu Ala Leu Arg Gln Gly Lys Ala Ser Gly Lys Arg Ile Val Met
                165                 170                 175
Asn Leu Arg Arg
            180

<210> 22654
<211> 253
<212> PRT
<213> A.fumigatus

<400> 22654
Glu Thr Gly Ala Leu Ser Asp Ser Glu Gln Gln Ile Glu Pro Gly Pro
1               5                   10                  15
Pro Ala Ala Ala Gln Thr Tyr Asn Ala Asp Leu Glu Gly Gly Pro Glu
            20                  25                  30
Leu His Ala Leu Met Arg Ala Val Glu Met Ile Ala Arg Lys Arg Arg
        35                  40                  45
Glu Glu Asp Arg Glu Ala Ser Asp Thr Lys Pro Tyr Leu Ser Pro Leu
    50                  55                  60
Glu Ser Tyr Phe Leu Ser Gln Ser Asp Val Ser Thr Ser Ala Ser Ser
65                  70                  75                  80
Leu Asn Ser Gln Asp Pro Ser Pro Ile Pro Glu Lys Leu Leu Lys Thr
                85                  90                  95
Asn Ser Ala Ser Pro Ala Val Pro Thr Thr Ser Lys Thr Pro Pro Val
            100                 105                 110
Ala Pro Val Ala Pro Val Ala Ala Pro Arg Ile Arg Ser Arg Ala Gln
        115                 120                 125
Gly Gly Tyr Leu Cys Thr Asp Leu Asp Val Tyr Leu Thr His Glu Pro
    130                 135                 140
Cys Leu Cys Cys Ser Met Gly Met Leu Leu Ser Arg Phe Arg Ala Val
145                 150                 155                 160
Ile Phe Pro Arg Lys Gly Arg Met Val Thr Gly Gly Leu Ala Ser Glu
                165                 170                 175
Pro Val Ile Ser Pro Ala Ser Asp Thr Val Pro Glu Gly Glu Pro Glu
            180                 185                 190
Glu Ser Glu Ser Lys Ala Pro Met Asp Glu Ser Ser Asp Pro Ala Thr
        195                 200                 205
Lys Arg Lys Tyr Tyr Gly Leu His Trp Arg Lys Glu Leu Asn Trp Arg
    210                 215                 220
Ala Leu Gly Phe Glu Phe Val Glu His Asp Asp Ala Asp Glu Leu Ala
225                 230                 235                 240
Arg Arg Thr Glu Asp Gln Thr Gly Val Ala Phe His Ala
                245                 250
```

<210> 22655
<211> 76
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23),(40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22655
Thr Ser Ile Ser Thr Thr Cys Glu Phe Ala Ser Ala Val Val Phe Ala
1 5 10 15
His Glu Tyr Gly Ile Leu Xaa Ala Ser Leu Gln Asp Arg Pro Phe Ile
20 25 30
Pro Thr Ala Leu Val Ser Ile Xaa Gly Ile Pro Glu Ser Ala Arg Ser
35 40 45
Ala Phe Arg Lys Trp Glu Lys Pro Ser Gly Gln Met Arg Pro Gln Val
50 55 60
Phe Pro Leu Asn Ala Ala Ile Glu Ser Ile Arg Ser
65 70 75

<210> 22656
<211> 173
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (173)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22656
Met Glu Phe Gln Gln Val Tyr Tyr Ser Gln Thr Met Asn Pro Ser Ile
1 5 10 15
Ser Arg Glu Leu Asn Pro Leu Asp Pro Ala Val Leu Arg Ala Thr Ser
20 25 30
Asp His Leu His His Thr Trp Ala Lys Thr Phe Tyr Ser Arg Pro Glu
35 40 45
Leu Tyr Ile Arg Pro Arg Ser Ile Ala Glu Ile Gln Lys Val Val Thr
50 55 60
Leu Ala Arg Arg Cys Arg Arg Arg Leu Val Thr Val Gly Ser Gly His
65 70 75 80
Ser Pro Ser Asp Leu Thr Cys Thr Ser Ser Trp Leu Val Asn Leu Asp
85 90 95
Asp Phe Asn Arg Ile Leu His Ile Asp Arg Glu Thr His Val Val Thr
100 105 110
Val Glu Ala Gly Ile Arg Leu Arg Asp Leu Gly Arg Gln Phe Glu Glu
115 120 125
His Gly Leu Thr Leu Ser Asn Leu Gly Ser Ile Asp Ser Gln Ser Ile
130 135 140
Ala Gly Val Ile Ser Thr Gly Thr His Gly Ser Phe Leu Ala His Gly
145 150 155 160
Leu Ile Ser Lys Cys Ile Ile Ser Leu Thr Leu Met Xaa
165 170

<210> 22657
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22657
Ile Cys Thr Arg Asn Ser Gly Pro Lys Ala Val Ser Gln Ala Phe Tyr
1 5 10 15
Thr Thr Thr Tyr Val Ser Ser Pro Arg Thr Val Gln Gln Thr Glu Tyr
20 25 30
Leu Thr Asp Leu Gln Phe Arg Gln Lys Pro Ser Ser His Leu Asn Thr
35 40 45
Pro Gln Pro Pro Pro Ala Asn His Thr Val Ser Ser Ser Leu Ala Val
50 55 60
Ser Ala Met Ala
65

<210> 22658
<211> 85
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(3),(4),(5),(6),(7),(8),(9),(10),(11),(12),(13),(14),(15),(16),(17),(18),(19),(
26),(27),(42),(44),(46),(47),(49),(50),(52),(54),(56),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22658
Phe Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15
Xaa Xaa Xaa Phe Phe Pro Leu Phe Leu Xaa Xaa Leu Phe Ser Pro Pro
20 25 30
Gln Val Tyr Asn Asn Phe Pro Phe Phe Xaa Ser Xaa Asn Xaa Xaa Ser
35 40 45
Xaa Xaa Ser Xaa Ile Xaa Phe Xaa Xaa Leu Gly Phe Phe Phe Ser Leu
50 55 60
Phe Pro Arg Phe Phe Pro Gly Phe Gly Gly Pro Cys Ala Arg Gly Phe
65 70 75 80
Gly Ala Val Leu Ser
85

<210> 22659
<211> 181
<212> PRT
<213> A.fumigatus

<400> 22659
Gly Cys Ser Cys Asp His Phe His Tyr Pro Val Thr Ser Phe Tyr Pro
1 5 10 15
Phe Arg Ser Ala Thr Phe Cys Arg Pro His Arg Arg Arg Arg Lys Phe
20 25 30
Leu Gln Ser Pro Leu Leu Leu Phe Asn Cys Ser Val Leu Glu Ile His
35 40 45
Gln Gln Leu Pro Glu Asp Met Ser Glu Val Gln Thr Arg Pro Ser Ala

```
    50                  55                  60
Ser Arg Gly Arg Val Ser Ala Arg Gly Gly Arg Gly Gly Tyr Ser Ser
65                  70                  75                  80
Arg Gly Gly Arg Gly Gly Ser Arg Ser Ala Lys Ala Asp Thr Ser Asp
                85                  90                  95
Gln Thr Thr Phe Glu Asp Glu Gly Glu Ile Gly Gln Met Lys Lys Lys
            100                 105                 110
Tyr Ser Asn Asp Leu Pro Thr Leu Lys Glu Leu Phe Pro Asp Trp Thr
        115                 120                 125
Asp Glu Asp Leu Val Phe Ala Leu Glu Asp Ala Asp Gly Val Leu Glu
    130                 135                 140
Asp Ala Val Glu Arg Ile Thr Glu Gly Met Ile Met Asp Ser Val Ser
145                 150                 155                 160
Cys Ile Ser Tyr Pro Tyr Ile Cys Cys Ser Leu Glu Phe Ala Leu Thr
                165                 170                 175
Leu Ile Val Pro Ser
            180
```

<210> 22660
<211> 104
<212> PRT
<213> A.fumigatus

```
<400> 22660
Arg Tyr Asp His Gly Phe Arg Glu Leu Tyr Leu Val Pro Leu His Met
1               5                   10                  15
Leu Leu Thr Gly Ile Arg Ser Asn Phe Asp Arg Pro Ile Ile Thr Gly
            20                  25                  30
Asn Val Ser Gln Trp Gly Glu Val Lys Lys Lys Thr Ala Asp Arg Asn
        35                  40                  45
Arg Ser Lys Ala Lys Glu Ala Gln Ser Thr Pro Thr Glu Ala Thr Thr
    50                  55                  60
Ser Ser Val Arg Thr Gly Arg Gly Arg Gly Gly Phe Glu Gly Arg Gly
65                  70                  75                  80
Arg Ala Arg Gly Asp Arg Gly Arg Gly Gly Arg Gly Ala Val Phe Thr
                85                  90                  95
Thr Gly Leu Glu Gly Ala Ala Pro
            100
```

<210> 22661
<211> 63
<212> PRT
<213> A.fumigatus

```
<400> 22661
Lys Thr Pro Tyr Phe Thr Ala Thr Leu Ile Lys Tyr Leu Ile Ile Arg
1               5                   10                  15
Ile Leu Ile Ser Leu Phe Gln Phe Glu Phe Pro Phe Phe Gly Ala Pro
            20                  25                  30
Phe Ser Val Pro Gly Leu Phe Pro Leu Lys Tyr Tyr Leu Pro Ser Phe
        35                  40                  45
Lys Ser Leu Leu Asn Ser Ile Phe Leu Leu His Leu Pro Ser Thr
    50                  55                  60
```

<210> 22662
<211> 65

<212> PRT
<213> A.fumigatus

<400> 22662
Met Ser Leu Gly Phe Ile His Phe Glu Leu Leu Gly Val Thr Asn Leu
1 5 10 15
Arg Gly Phe Ile Asn Gln Trp Asp Val Leu Ala Arg Leu Ser Asn Asn
20 25 30
Asn Asp Asp Trp His Gly Val Gln Trp Lys Trp Tyr Ser Ile Glu Ala
35 40 45
Ala Lys Ser Val Phe Thr His Gly Ala Pro Glu Gly Ser Ser Ala Lys
50 55 60
Ala
65

<210> 22663
<211> 287
<212> PRT
<213> A.fumigatus

<400> 22663
Gly Glu Gly Val Leu Glu Ser Ala Arg Glu Gln Leu Glu Glu Arg Ser
1 5 10 15
Gly Pro Ser Gln Arg Lys Asn Pro Lys Arg Glu Ala Arg Asp Arg Val
20 25 30
Glu Lys Glu Arg Gln Glu Ala Arg Ala Lys Ile Glu Arg Ala Asn Cys
35 40 45
Arg Lys Arg Lys Leu Arg Leu Ser Val Lys Gln Pro Arg Ser Glu Lys
50 55 60
Gly Pro Ser Glu Arg Pro Arg Lys Pro Arg Gln Arg Gln Ser Ala Lys
65 70 75 80
Gln Leu Arg Leu Glu Leu Lys Asp Leu Leu Leu Trp Pro Arg Lys Glu
85 90 95
Arg Leu Glu Pro Lys Pro Lys Pro Lys Lys Arg Pro Gln Lys Gln Lys
100 105 110
Pro Arg Pro Arg Arg Arg Pro Leu Arg Lys Arg Leu Pro Gln Arg Pro
115 120 125
Leu Leu Lys Arg Lys Pro Met Pro Asn Ser Pro Arg Ser Arg Lys Leu
130 135 140
Leu Arg Arg Ser Met Arg Lys Arg Arg Pro Lys Met Pro Arg Lys Pro
145 150 155 160
Gln Leu Glu Ser Arg Gln Arg Arg Lys Gln Gln Ala Ala Asn Pro Gln
165 170 175
Gln Gly Gln Arg Leu Pro Gly Pro Arg Leu Gln Lys Ser Gln Arg Ile
180 185 190
Arg Ala Val Leu Gly His Gln Gln Leu Arg Thr Arg Met Met Pro Ile
195 200 205
Arg Ser Gly His Thr Thr Asp Pro Ala Asp Pro Met Arg Val His Gln
210 215 220
Val Pro Arg Ser Ile Leu Asn Leu Pro Met Pro Leu Arg Ser Arg Arg
225 230 235 240
Pro Gly Arg Pro Arg His Leu Gln Pro Glu Ala Pro Thr Arg Pro Lys
245 250 255
Ile Arg Thr Arg Leu Ser Ser Glu Ala Phe Met Pro Ser Ile Thr Pro
260 265 270
Ser Cys Glu Val Leu Trp Arg Ser Trp Ser Leu Ala Lys Gly Trp

275 280 285

<210> 22664
<211> 264
<212> PRT
<213> A.fumigatus

<400> 22664
Ser Lys Asp Arg Ala Gly Glu Leu Pro Glu Ala Lys Ala Lys Ala Glu
1 5 10 15
Arg Glu Ala Ala Glu Val Arg Glu Arg Ala Glu Arg Glu Ala Ala Glu
20 25 30
Ala Lys Thr Lys Ala Glu Arg Glu Ala Ala Glu Ala Arg Ala Gln Arg
35 40 45
Leu Ala Ala Leu Ala Lys Glu Arg Glu Ala Arg Ala Lys Ala Lys Ala
50 55 60
Glu Lys Glu Ala Ala Glu Ala Lys Ala Lys Ala Glu Lys Glu Ala Ala
65 70 75 80
Glu Lys Glu Ala Ala Ala Lys Ala Ala Ala Lys Lys Glu Ala Asp Ala
85 90 95
Lys Phe Ala Ala Leu Lys Glu Ala Ala Ala Lys Lys Tyr Ala Glu Lys
100 105 110
Lys Ala Lys Asp Ala Gln Glu Ala Ala Ala Arg Glu Gln Ala Ala Ala
115 120 125
Glu Ala Ala Ser Ser Lys Ser Ala Thr Gly Ser Thr Ala Pro Arg Thr
130 135 140
Pro Ser Pro Lys Lys Pro Ala Tyr Thr Gly Ser Ala Arg Thr Pro Thr
145 150 155 160
Thr Ala Asp Glu Asp Asp Ala Tyr Ser Phe Arg Pro Tyr Asp Arg Pro
165 170 175
Arg Arg Pro Tyr Ala Gly Thr Ser Gly Ser Ser Val Tyr Ser Glu Ser
180 185 190
Ser Tyr Ala Pro Ser Gln Ser Thr Ala Arg Thr Thr Pro Pro Pro Ser
195 200 205
Thr Arg Gly Ala Tyr Ser Thr Lys Asp Pro Asp Lys Ile Val Ile Arg
210 215 220
Gly Val Tyr Ala Phe Asn Asn Ala Phe Leu Arg Ser Pro Val Ala Gln
225 230 235 240
Leu Val Ser Gly Gln Gly Val Val Thr Asp Gly Leu Val Leu Arg Ser
245 250 255
Leu His Pro Gln Gly Ala Glu Gly
260

<210> 22665
<211> 236
<212> PRT
<213> A.fumigatus

<400> 22665
Thr His Ser Ser Val Pro Ser Ala Ala Val Cys Glu Asp Lys Thr Ala
1 5 10 15
Leu Tyr Phe Ala Val Glu Ser Gly Asp Leu Gly Lys Val Thr Ala Leu
20 25 30
Leu Glu His Pro Asp Val Asp Val Asn Leu Arg Thr Asp Glu Leu Gly
35 40 45
Asp Gly Gln Ser Leu Leu His Cys Ala Val Asn Gln Gln Cys Val Asp

```
    50                  55                  60
Pro Glu Ile Met Lys Ala Leu Leu Ala Arg Pro Asp Ile Asn Val Ser
65                  70                  75                  80
Ala Arg Asp Tyr Ser Gly Arg Thr Pro Leu Ala Phe Ala Ala Phe Asn
                85                  90                  95
Gly Glu Ala Glu Leu Val Lys Leu Leu Leu Gln Arg His Asp Val Asp
            100                 105                 110
Val Phe Pro Gln Asp Arg Phe Gly Asp Thr Pro Leu Leu Leu Ala Ala
        115                 120                 125
Lys Glu Gly Glu Ile His Ile Val Asn Met Leu Ser Lys Val Pro Gly
    130                 135                 140
Thr Asp Thr Trp His Arg Asn Asn Trp Asp Lys Thr Ala Leu Gly Leu
145                 150                 155                 160
Ala Gly Glu Ser Gly His Thr Glu Val Met Arg Arg Leu Leu Asp Pro
                165                 170                 175
Asp Leu Lys Ala Thr Arg Glu Ile Ile Cys Asp Ala Met Glu Asn Thr
            180                 185                 190
Lys Glu Ala Leu Asp Ala Ile Arg Arg Thr Pro Arg Ser Val Leu Gly
        195                 200                 205
Ser Glu Asn Glu Ser Leu Ala Gln Glu Arg Lys Ile Glu Glu Ala Tyr
    210                 215                 220
Lys Leu Leu Ser Ala Gly Leu Asn Arg Thr Gly Ser
225                 230                 235
```

<210> 22666
<211> 126
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (112)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 22666
Pro Tyr Leu His Asn Thr Gly Thr Gln His Gly Cys Leu Ile Pro Met
1               5                   10                  15
Ala Ser Pro Pro Pro Val Ser Thr Ala Thr Ala Thr Ala Thr Gly Ser
            20                  25                  30
Ser His His Phe Pro Asn Asp Ser Val Leu Lys Tyr Ser His Ile Gly
        35                  40                  45
Gln Thr Glu Lys Tyr Val Phe Ser Ala Phe Ala Gly Val Val Trp Tyr
    50                  55                  60
Asn Ala Ile Glu Leu Ile Val Leu Cys Leu Thr Thr Phe Lys Arg Tyr
65                  70                  75                  80
Arg Gly Cys Tyr Phe Trp Ser Leu Leu Leu Ala Ser Ile Ser Leu Thr
                85                  90                  95
Thr Tyr Ile Leu Gly Ser Phe Ser Ser Ser Phe Ser Pro Cys Pro Xaa
            100                 105                 110
Pro Pro Met Val Ala Ser Ala Ser Ser Val Arg Ala Gly Ala
        115                 120                 125
```

<210> 22667
<211> 202
<212> PRT
<213> A.fumigatus

<400> 22667
Asn Ile Leu Ser Ser His Gln Pro Pro Ser Asn Ser Pro Ala Gln Ala
1 5 10 15
Lys His Ala Ala Ile Thr Ile Lys Lys Ser Lys Met Pro Ser Lys Ile
20 25 30
Thr Val Ala Val Ala Gln Ala Arg Thr His Ile Ala Thr Gln Ala Thr
35 40 45
Leu Ser Ala Leu Ser Arg Ile Ala His His Ala Arg Ile Arg Gly Val
50 55 60
His Leu Leu Leu Phe Pro Glu Ala Tyr Leu Gly Gly Tyr Pro Arg Thr
65 70 75 80
Cys Ser Phe Val Cys Ala Val Gly Ser Arg Ala Pro His Gly Arg Asp
85 90 95
Gln Phe Leu Ala Tyr Phe Arg Ser Ala Ile Asp Leu Gly Asp Thr Pro
100 105 110
Ala Gly Ala Gly Asp Asp Trp Val Gln Arg Arg Leu Pro Val Ala Glu
115 120 125
Gly Arg Ser Glu Arg Gly Asp Gly Thr Arg Glu Glu Met Glu Arg Val
130 135 140
Ala Arg Glu Thr Gly Val Phe Leu Val Val Gly Val Ile Glu Arg Ala
145 150 155 160
Gly Gly Ser Leu Tyr Cys Ala Val Val Tyr Val Asp Pro Leu Arg Gly
165 170 175
Cys Ile Gly Lys Arg Arg Lys Val Met Pro Val Ser Leu Pro Cys Ser
180 185 190
Phe Ser Phe Ser Phe Ser Ser Arg Phe His
195 200

<210> 22668
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22668
Thr Gly Thr Glu Arg Leu Ile Trp Ala Gln Gly Ser Pro Ser Thr Leu
1 5 10 15
Lys Ala Val Thr Thr His Leu Asn Gly Val Pro Val Thr Leu Ala Ala
20 25 30
Ala Ile Cys Trp Glu Asn Tyr Met Pro Leu Leu Arg Gln Ser Leu Tyr
35 40 45
Ala Gln Asn Val Asn Ile Tyr Leu Ala Pro Thr Ala Asp
50 55 60

<210> 22669
<211> 151
<212> PRT
<213> A.fumigatus

<400> 22669
Pro Ser Ser Ser Ser Arg Tyr Thr His Ala Gly Asp Pro His Arg Gln
1 5 10 15
Gln Arg Asn Thr Asn Cys Pro Pro Arg Ala Gln Ser Pro Pro Gln Gln
20 25 30
Glu Thr Arg Pro Ser Leu Ser Pro Pro Ala Pro Ser Pro Pro Ser Ser
35 40 45

```
His Arg Arg Ala Arg Ser Ala Pro Arg Leu Gln Ala Thr Val Val Glu
    50                  55                  60
Pro Asn His Pro Arg Arg Pro Gln Gly Tyr Arg Arg Asp Gln Ser Pro
65                  70                  75                  80
Ser Gly Asn Arg Pro Gly Thr Gly Arg Gly Arg Val Gly Arg Ala Ser
                85                  90                  95
Pro Pro His Ile Arg Arg Ser Arg Tyr Val Gly Ile Arg Pro Asp Arg
            100                 105                 110
Pro Arg Gly Arg Gly Gly Gly Ala Arg Arg Gly Cys Gly Arg Gly Gly
        115                 120                 125
Arg Cys Gly Arg Gly Arg Arg Glu Trp Leu Val Leu Leu Cys Glu Cys
    130                 135                 140
Gly Leu Gly Arg Leu Pro Arg
145                 150
```

<210> 22670
<211> 307
<212> PRT
<213> A.fumigatus

```
<400> 22670
Gly Asp Val Val Val Ala Asn Asp His Gln Asn Pro Asp Ile Phe Trp
1               5                   10                  15
Ala Leu Arg Gly Gly Gly Gly Gly Thr Phe Gly Ile Val Thr Arg Ala
            20                  25                  30
Thr Met Arg Val His Leu Asn Ser Pro Val Cys Val Ser Glu Val Ala
        35                  40                  45
Val Ser Gly Ser Arg Asn Asn Ser Leu Leu Trp Thr Lys Gly Ile Thr
    50                  55                  60
Gly Leu Phe Ser Ile Leu Arg Ser Phe Asn Gln Gln Gly Ile Pro Gly
65                  70                  75                  80
Gln Phe Ile Leu Arg Pro Leu Ser Lys Asp Gln Val Asn Ala Ser Leu
                85                  90                  95
Thr Leu Tyr Ser Leu Asn Thr Asp Asp Thr Arg Arg Ser Ala Glu Asn
            100                 105                 110
Met Leu Ser Ile Arg Asn Ile Leu Glu Ser Thr Thr Leu Pro Phe Thr
        115                 120                 125
Leu Ala Ser Arg Cys Leu Pro Lys Ile Ser Asp Ala Leu Arg Lys Gly
    130                 135                 140
Pro Asp Met Leu Pro Val Asn Tyr Gly Ile Ile Thr Gly Ser Val Leu
145                 150                 155                 160
Val Ser Glu Asp Leu Phe Asn Ser Glu Glu Gly Pro Leu His Leu Ala
                165                 170                 175
Lys Gln Leu Glu His Phe Pro Met Gly Pro Met Asp Leu Leu Phe Thr
            180                 185                 190
Ser Asn Leu Gly Gly Asn Val Ser Ala Asn Thr Gly Lys Lys His Arg
        195                 200                 205
Asp Thr Ser Met His Pro Gly Trp Arg Gln Ala Ala His Leu Ile Asn
    210                 215                 220
Phe Val Arg Ser Val Ser Thr Pro Thr Ala His Glu Lys Ala Arg Ser
225                 230                 235                 240
Leu Glu Glu Leu His Ser Val Gln Met Arg Gln Leu Tyr Asp Ile Glu
                245                 250                 255
Pro Asp Phe Arg Val Ser Tyr Arg Asn Leu Gly Asp Pro Leu Glu Ser
            260                 265                 270
Asp Ala Ala Gln Val Tyr Trp Gly Pro Asn Tyr Lys Arg Leu Leu Glu
```

```
        275                 280                 285
Ile Lys Arg Leu His Thr Gly Leu Glu Gly Pro Thr Val Leu Arg Gln
    290                 295                 300
Ser Met Gly
305
```

<210> 22671
<211> 135
<212> PRT
<213> A.fumigatus

<400> 22671

```
Ser Pro Glu Asp Val Trp Val Leu Val Val Ile Gly His Asp Asn Ile
1               5                   10                  15
Ser Leu His Ser His Ser Glu Leu Gln Tyr Lys Asp Thr Ile Leu Gln
            20                  25                  30
Val Ile Lys Asp Val Ser Thr Asn Leu Arg Arg His Asp Leu Lys Phe
        35                  40                  45
Glu Asp Ile Ile Tyr Ser Gln Thr Val Asp Glu Ala Val Glu Thr Gly
    50                  55                  60
His Ser Ala Ser Leu Glu Lys Thr Ala Arg Ser Ala His Gly Arg Thr
65                  70                  75                  80
Leu Pro Pro Asp Asp His Pro Ser Ile Thr Gly Thr Ser Cys Ile His
                85                  90                  95
Leu Pro Gln Ser His Ser Ser Ala Tyr Ala His Gly Trp Ala Thr Val
            100                 105                 110
Tyr Ile Gly Ala Glu Gly Pro Glu Val Val Met Ser Ser Pro Arg Gly
        115                 120                 125
Ala Gly Arg Ile Arg Ala Gln
    130                 135
```

<210> 22672
<211> 207
<212> PRT
<213> A.fumigatus

<400> 22672

```
Ser Leu Asp Ser Gly Arg Arg Ile Asn Trp Pro Gly Ile Pro Cys Trp
1               5                   10                  15
Leu Asn Glu Arg Arg Met Glu Asn Arg Pro Val Ile Pro Phe Val Gln
            20                  25                  30
Ser Asn Glu Leu Phe Arg Glu Pro Asp Thr Ala Thr Ser Glu Thr Gln
        35                  40                  45
Thr Gly Leu Leu Arg Cys Thr Leu Ile Val Ala Arg Val Thr Met Pro
    50                  55                  60
Lys Val Pro Pro Pro Pro Pro Arg Lys Ala Gln Lys Met Ser Gly Phe
65                  70                  75                  80
Trp Trp Ser Leu Ala Thr Thr Thr Ser Pro Tyr Thr Ala Ile Val Asn
                85                  90                  95
Phe Ser Thr Lys Thr Pro Tyr Cys Lys Leu Ser Arg Met Tyr Leu Pro
            100                 105                 110
Thr Phe Ala Val Thr Thr Ser Asn Ser Arg Thr Leu Ser Thr Ala Arg
        115                 120                 125
Pro Ser Met Lys Leu Trp Lys Leu Asp Thr Pro Pro Pro Trp Arg Lys
    130                 135                 140
Pro Pro Ala Ala Pro Thr Val Gly His Ser Pro Pro Thr Thr Thr His
```

```
145                 150                 155                 160
Pro Ser Arg Ala Pro Leu Ala Tyr Ile Ser Pro Arg Val Thr Pro Ala
                165                 170                 175
Pro Thr Leu Thr Ala Gly Pro Arg Ser Ile Ser Glu Pro Arg Ala Arg
            180                 185                 190
Lys Leu Ser Cys Leu His His Gly Gly Leu Ala Gly Ser Ala Leu
        195                 200                 205
```

<210> 22673
<211> 173
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22673

```
Arg Val Ser Arg Ser Xaa Arg Arg Lys Gly Asp Ala Lys Gly Pro Trp
1               5                   10                  15
Ala Glu Lys Ala Gly Leu Thr Ala Ser Pro Ala Glu Thr Lys Pro Ala
            20                  25                  30
Gly Pro Ala Ala Pro Ala Lys Glu Ala Ala Lys Lys Asp Asp Ser Arg
        35                  40                  45
Met Glu Met Thr Arg Val Val Thr Ala Ser Thr Pro Val Asp Lys Val
    50                  55                  60
Lys Glu Tyr Leu Lys Arg Pro Ser Gln Lys Ser Asn Asp Ala Ile Val
65                  70                  75                  80
Gly Leu Val Arg Pro Ile Ile Gln Asp Val Arg Asp Gly Gly Asp Ala
                85                  90                  95
Ala Val Leu Lys Tyr Thr His Lys Phe Glu Lys Ala Thr Ser Leu Thr
            100                 105                 110
Ser Pro Val Ile Arg Ala Pro Phe Pro Pro Glu Leu Met Lys Leu Ser
        115                 120                 125
Pro Glu Thr Gln Glu Ala Ile Asp Val Ser Ile Ala Asn Ile Lys Lys
    130                 135                 140
Phe His Ser Ala Gln Lys Asp Ser Asn Asp Val Leu Gln Val Glu Thr
145                 150                 155                 160
Met Pro Gly Val Val Cys Ser Arg Phe Ser Arg Pro Tyr
                165                 170
```

<210> 22674
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22674

```
Thr Cys Gly Ser Val Thr Pro Pro Val Ala His Pro Gly Ala Val Pro
1               5                   10                  15
Pro Arg Pro Met Lys Leu Gly Val Pro Pro Trp Leu Ala Ala Ala Xaa
```

```
            20                  25                  30
Lys Met Ser Trp Gly Ser Pro Pro Pro Gly Gln Trp Ala His Pro Pro
        35                  40                  45
Pro Arg Ile Val Leu Leu Pro Pro Pro Asn Leu Glu Thr Gln Lys Thr
    50                  55                  60
Cys Pro Pro Pro Gly Val Ser Gln Ala Leu
65                  70
```

<210> 22675
<211> 111
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (93)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22675

```
Thr Trp Ser Phe Gln Pro Arg Gly Glu Asp Lys Asp Leu Gln Ala Arg
1               5                   10                  15
Lys Ala Asp Ala Pro Ala Gly Ser Tyr Thr Ala Arg Leu Phe Asn Glu
            20                  25                  30
Pro Lys Leu Thr Gln Ala Lys Ile Met Glu Glu Ala Asp Glu Leu Cys
        35                  40                  45
Arg Ala Thr Thr Lys Glu Glu Ile Ala Phe Glu Ala Ala Asp Leu Leu
    50                  55                  60
Tyr Phe Ala Leu Thr Arg Cys Val Ala Ala Gly Val Ser Leu Glu Asp
65                  70                  75                  80
Ile Glu Arg Asn Leu Asp Leu Lys Ser Leu Lys Val Xaa Lys Lys Lys
                85                  90                  95
Gly Arg Cys Glu Gly Ala Val Gly Gly Glu Gly Trp Ser Asp Cys
            100                 105                 110
```

<210> 22676
<211> 139
<212> PRT
<213> A.fumigatus

<400> 22676

```
Ser Cys Ile Gly Pro Gly Leu Ile Pro Ala Leu Val Lys Gln Ala Lys
1               5                   10                  15
Ala Lys Arg Ile Val His Val His Asn Glu Met Thr Cys Leu Pro Asn
            20                  25                  30
Gln Ser Arg Asn Gly Asn Asp Val Asn Gln Ser Thr Pro Pro Tyr Val
        35                  40                  45
Arg Gln Thr Asp Cys Leu Glu Ser Arg Val Glu Ser Leu Lys Met Ile
    50                  55                  60
Ser Ser Ser Ser Ala Pro His Pro Pro Ser Ser Ser Glu Ser Pro Pro
65                  70                  75                  80
Pro Phe Ser Ser Gln Pro Glu Pro Thr Pro Pro Leu Ser Pro Val Ala
                85                  90                  95
Ser Pro His Ala Ser Gln Thr Ile Pro Pro Ala Pro Gly Pro Pro Leu
            100                 105                 110
Pro Ala Ser His Ala Gln Pro Tyr Thr Ser Ser Ser Pro Ala Ala Glu
        115                 120                 125
```

```
Pro Asp Ile Pro Arg Trp Pro Leu Pro Phe Asp
    130                 135

<210> 22677
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22677
Cys Glu Gly Cys His Gly Gly Gln Gln Leu Asn Leu Pro Val Val Asp
1               5                   10                  15
Phe Phe Trp Ser Trp Ser Ile Phe Asp Gln Ser Lys Asp Gly His Cys
            20                  25                  30
Ala Thr Tyr Asp Phe Gly Tyr Glu Asn Cys Arg Arg Asn Gly Thr Lys
        35                  40                  45
Gly Asp Trp Lys Val Arg Arg Lys Leu Met Glu Ala Ser Thr Val Ser
    50                  55                  60
Lys
65

<210> 22678
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26),(64),(67)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22678
Thr Leu Lys Arg Gly Tyr His Thr Val Phe Ala Gly Tyr Leu Ile His
1               5                   10                  15
Asn Ile Ala Val Ser Phe Tyr Val Asn Xaa Leu Thr Val Tyr Asp Ser
            20                  25                  30
Tyr Phe His Asn Ala Thr Asp Ile Leu Val Glu Val Cys Phe His Tyr
        35                  40                  45
His Tyr Ala Thr Arg Ser Gly Arg Arg Arg Ser Arg Gln Ser Ala Xaa
    50                  55                  60
Ser Thr Xaa Ala Glu Thr Ile Pro Lys Phe Phe Trp Gly
65                  70                  75

<210> 22679
<211> 270
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (237)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22679
Arg Cys Ile Ala His Cys Glu Leu Lys Thr Gly Met Arg Leu Glu Phe
1               5                   10                  15
Met Lys Phe Leu Pro Asn Asp Asp Asp Asp Asp Glu Gly Glu Val Thr
```

```
            20                  25                  30
Val Val Trp Thr Ala His His Ser Leu Ile Asp Gly Tyr Ser Leu Gly
        35                  40                  45
Leu Ile Leu Ala Arg Val Gln Gln Ala Ser Gln Gly Val Ala Ser Ser
    50                  55                  60
Arg Val Ser Ser Phe Val Asp Ala Ala Trp Asn Leu Leu Ser Val Gln
65                  70                  75                  80
Lys Gln Arg Asp Thr Glu Ala Arg Arg Phe Trp Glu Gln Tyr Leu Gln
                85                  90                  95
Pro Val Arg Ser Leu Thr Lys Ala Glu Ala Thr Thr Thr Pro Val Ala
            100                 105                 110
Arg Pro Tyr Leu Ala Gln Glu Val Leu Phe Lys His Val Gly Gly Val
        115                 120                 125
Asp Glu Leu His Arg Leu Ala Ser Ser Cys Ser Val Thr Leu Ala Ala
    130                 135                 140
Val Tyr Tyr Thr Ala Trp Ala Met Thr Ile Ala Arg Thr Thr Lys Ser
145                 150                 155                 160
Thr Leu Val Thr Leu Gly Val Val Phe Ser Gly Arg Glu Ile Leu Pro
                165                 170                 175
Asp Asp Ala Gln Ala Val Gly Pro Leu Met Ala Thr Leu Pro Leu Val
            180                 185                 190
Cys Arg Ile Asp Gly Glu Ala Ser Ile Glu Arg Gln Leu Gln Thr Thr
        195                 200                 205
Phe Glu Gly Leu Ala Thr Ile Ser Thr Tyr Ala Trp Ser Ala Pro Asp
    210                 215                 220
Gln Ile Gly Tyr Arg Val Asp Ser Leu Leu Ala Thr Xaa Tyr Asp Phe
225                 230                 235                 240
Pro Thr Tyr Asp Gln Pro Ile Pro Ala Ala Lys Glu Gln Phe Phe Glu
                245                 250                 255
Asn Thr Asn Phe Ala Leu Ser Leu Leu Val Glu Ala Asp Ala
            260                 265                 270
```

<210> 22680
<211> 89
<212> PRT
<213> A.fumigatus

<400> 22680

```
Gly Ile Asp Pro Val Leu Tyr Lys Phe Cys Ile Val Asn Leu Val Tyr
1               5                   10                  15
Ile Ser Ile Leu Lys Leu Lys Val Tyr Lys Ser Leu Ser Leu Trp His
            20                  25                  30
Asn Ile Gly Asp Val Trp Leu Lys Thr Tyr Gln Val Thr Leu Val Ile
        35                  40                  45
Leu Leu Asn Asn Ile Ile Thr Asn Ile Leu Lys Lys Leu Tyr Ile Leu
    50                  55                  60
Leu Val Leu Ser Ser Pro Ile Gln Phe Leu Ser Phe Gln Ser Asn Phe
65                  70                  75                  80
Ile Thr Ser Ser Leu Lys Leu Pro Val
                85
```

<210> 22681
<211> 166
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22681
Leu Gly Gln Trp Ala Ala Ser Arg Thr Asp Ile Phe Pro Pro Glu Met
1 5 10 15
Cys Asn Ile Met Ser Ser Leu His Ser His Ala Pro Ala His Ser Leu
20 25 30
His Gln Thr Lys Lys Thr Ile Ser Lys Ala Phe Asn Gly Leu Pro Phe
35 40 45
Glu Glu Ile Phe Glu Glu Phe Tyr Glu Glu Pro Leu Xaa Val Gly Ala
50 55 60
Ile Ala Gln Val Tyr Arg Ala Lys Leu Lys Pro Ser Leu Ala Val Met
65 70 75 80
Asp Asp Gln Ala Leu Thr Leu Glu Asp Arg Ser Phe Arg Gly Lys Val
85 90 95
Arg Lys Glu Cys Arg Thr Trp Leu Val Lys Asn Ser Pro Gly Thr Gly
100 105 110
Phe Arg Leu Arg Thr Trp Pro Leu Lys Tyr Ser Ile Gln Lys Val Glu
115 120 125
Arg Val Ile Arg Lys Gly Leu Gly Ile His Val Phe Leu Pro His His
130 135 140
Gly Leu Met Pro Ser Pro Gln Cys Thr Gly Cys Leu Gly Arg Met Arg
145 150 155 160
Tyr Ser Ser Leu Val Arg
165

<210> 22682
<211> 245
<212> PRT
<213> A.fumigatus

<400> 22682
Ala Arg Asp Pro Glu Gly Thr Trp Asp Ser Cys Leu Ser Ser Ala Ser
1 5 10 15
Trp Ile Asn Ala Ile Pro Thr Met His Trp Leu Ser Trp Pro Asp Glu
20 25 30
Val Gln Gln Phe Gly Glu Met Met Lys Leu Gln Leu Asp Leu Arg Ile
35 40 45
Glu Ala Ser Asn Val Val Ile Phe Arg Gln Lys Phe Lys Ser Arg Thr
50 55 60
Thr Ala Trp Phe Pro Tyr Pro Tyr Leu Glu Tyr Thr Thr Arg Glu Val
65 70 75 80
Leu Val Glu Glu Phe Ala Gln Gly Ile Pro Leu Glu Thr Phe Leu Asp
85 90 95
Val Gly Gly Gly Val Tyr Gln Gln Glu Ile Ala Asn Glu Gly Leu Asp
100 105 110
Ala Phe Leu His Met Leu Leu Ile Asp Asn Phe Val His Ala Asp Leu
115 120 125
His Pro Gly Asn Ile Met Val Arg Phe Tyr Gln Pro Ala Glu Leu Asp
130 135 140
Leu Ser Leu Gly Lys Arg Ser Arg Val Ser Asp Ala Pro Thr Ala Ala
145 150 155 160
Glu Ala Asp Val Thr Glu Thr Val Leu Ala Arg Leu Arg Pro His Ala

```
                165                 170                 175
His Asn Arg Glu Ala Trp His Ala Ala Leu Ser Gln Leu Asn Ala Glu
            180                 185                 190
Gly Tyr Arg Pro Gln Leu Ile Phe Ile Asp Thr Gly Leu Val Thr Gln
        195                 200                 205
Leu Asn Glu Thr Asn Arg Arg Asn Phe Leu Asp Leu Phe Arg Ala Val
    210                 215                 220
Ala Glu Phe Asp Gly Phe Arg Ala Gly Gln Ser Tyr Thr Asp Arg Ala
225                 230                 235                 240
Gly Arg Thr Arg Asp
                245
```

<210> 22683
<211> 100
<212> PRT
<213> A.fumigatus

```
<400> 22683
Leu Pro Thr Leu Ser Ala Ala Pro Ser Thr Pro Val Val Lys Thr Met
1               5                   10                  15
Leu Asn Lys Arg Asn His Val His His Leu Asp Thr Asn Thr Asp Glu
            20                  25                  30
Asp Met Ile Pro Ile Phe Thr His Asp Val Asn Asn Lys Ser Arg Asn
        35                  40                  45
Asn Lys Arg Leu Leu Pro Arg Arg Asn Trp Cys Ala Ile Arg Glu Tyr
    50                  55                  60
Gln Pro Gly Glu Ser Met Phe Arg Pro Tyr Glu Ile Ser Ile Ser Leu
65                  70                  75                  80
Thr Glu Asp Arg Leu His Thr Ser Gly Phe Ala Arg Ile Arg Arg Gly
                85                  90                  95
Pro Ser Thr Gly
            100
```

<210> 22684
<211> 92
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (64),(76),(77)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 22684
Phe Leu Pro Pro Lys Thr Leu Ala Pro Thr Val Gly Phe Pro His Ser
1               5                   10                  15
Ser Arg Gln Leu Arg Leu Ile Leu Ala Arg Lys Ile Phe Cys Met Ala
            20                  25                  30
Thr Asp Ala Ala Lys Lys Asp Ile Asn His Gly Arg Ser Met Leu Asp
        35                  40                  45
Asn Glu Ser Ser Leu Thr Arg Gln Leu Gln Cys Ala Tyr Gly Leu Xaa
    50                  55                  60
Trp Leu Pro Lys Ser Ile Pro Leu Gly Cys Leu Xaa Xaa Trp Cys Ser
65                  70                  75                  80
Lys Ser Arg His His Leu Ser Thr Val Gln Ser Arg
                85                  90
```

<210> 22685
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61),(62)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22685
Ser Ala Tyr Arg Leu Asn Phe Thr Cys Leu Gln Ser Arg Leu Ser Leu
1 5 10 15
Ile Lys Gln Leu Leu Asp Ile Val Ile Ile Gln Gly Thr Phe Phe Asn
20 25 30
Arg Met Gln Cys Asn Phe Ala Thr Cys Phe Tyr Leu His Ile Val Ile
35 40 45
Thr Pro Arg Gly Trp Lys Glu Thr Arg Pro Pro Lys Xaa Xaa Lys Met
50 55 60
Gly Gly
65

<210> 22686
<211> 75
<212> PRT
<213> A.fumigatus

<400> 22686
Glu His Pro Ala Lys Met Pro Gly Ile Leu Pro Met Lys Val Ile Lys
1 5 10 15
Val Gly Asn Gly Ser Gln Ser Arg Ile Ala Gln Ala Cys Asp Arg Cys
20 25 30
Arg Ser Lys Lys Ile Arg Cys Asp Gly Ile Arg Pro Cys Cys Thr Gln
35 40 45
Cys Ala Asn Val Gly Phe Glu Cys Lys Thr Ser Asp Lys Leu Ser Arg
50 55 60
Arg Ala Val Phe Thr Thr Gly Leu Glu Gly Thr
65 70 75

<210> 22687
<211> 111
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12),(15),(18),(62)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22687
Phe Asn Gln Ser Gly Leu Gly Ala Lys Tyr Pro Xaa Ser Val Xaa Ile
1 5 10 15
Val Xaa Pro Pro Val Leu Val Leu Thr Lys Ile Lys Arg Trp Ser Thr
20 25 30
Leu Ala Glu Ser Thr Val Pro Gln Ser Ile Lys Lys Ala Asp Ser Asp

```
        35                  40                  45
Ile Asp Asp Ile Glu Val Leu Leu Lys Trp Leu Ala Arg Xaa Gln Phe
    50                  55                  60
His Ile Asp Phe Glu Gly Tyr Leu Ala Lys Pro Lys Glu Glu Leu Leu
65                  70                  75                  80
Ser Gly Val Arg Lys Leu Tyr Gln Met His Ala Ala Phe Arg Pro Leu
                85                  90                  95
Leu Glu Thr Thr Leu Asp Glu Glu Ser Phe Ala Leu Ile Asn Asn
            100                 105                 110
```

<210> 22688
<211> 238
<212> PRT
<213> A.fumigatus

<400> 22688

```
Pro Pro Arg Thr Lys Arg Leu Leu Ser Trp Ala Arg Pro Ser Arg Thr
1               5                   10                  15
Thr Leu Pro Ser Ser Ala Gly Ser Arg Ser Ser Thr Leu Arg Ser Ser
            20                  25                  30
Pro Ser Ser Val Pro Gly Thr Ala Leu Cys Trp Ala Leu Thr Pro Thr
        35                  40                  45
Thr Arg Arg Thr Leu Lys Met Pro Ser Arg Leu Pro Thr Arg Pro Ser
    50                  55                  60
Pro Ser Leu Arg Ser Thr Ser Leu Pro Ile Pro Thr Trp Leu Val Ser
65                  70                  75                  80
Ala Ser Pro Ser Pro Ile Thr Ser Val Pro Leu Ser Ser Pro Ala Leu
                85                  90                  95
Ser Leu Pro Phe Trp Thr Arg Leu Gly Ala Pro Arg Thr Leu Pro Ser
            100                 105                 110
Pro Asp Gly Thr Thr Pro Ser Ser Thr Arg Leu Leu Ser Arg Pro Ser
        115                 120                 125
Ser Pro Ala Leu Ser Ser Leu Arg Arg Leu Ser Ser Thr Leu Leu Pro
    130                 135                 140
Arg Arg Arg Arg Ser Pro Arg Leu Leu Leu Leu Leu Pro Arg Leu Leu
145                 150                 155                 160
Leu Leu Leu Leu Ser Pro Arg Pro Ser Leu Arg Arg Ser Pro Ser Thr
                165                 170                 175
Leu Leu Arg Leu Leu Val Ser Pro Ser Leu Ser Leu Met Ser Gly Ser
            180                 185                 190
Val Ser Thr Pro Thr Arg Thr Pro Ala Pro Leu Leu Cys Pro Gly Ser
        195                 200                 205
Gly Arg Thr Thr Ser Arg Lys Ser Thr Leu Ser Met Leu Leu Thr Thr
    210                 215                 220
Ser Thr Thr Thr Ser Ser Ser Ser Pro Ser Trp Leu Thr Thr
225                 230                 235
```

<210> 22689
<211> 88
<212> PRT
<213> A.fumigatus

<400> 22689

```
Gly Gly Phe His Ala Arg Leu Glu Ala Ser Arg Lys Tyr Leu Phe Gly
1               5                   10                  15
Ala Gln Ser Val Tyr Gly Glu Asn Tyr Asn Cys Val Ile Arg Gly Val
```

```
            20                  25                  30
Phe Leu Val Arg Gly Gln Asp Trp Lys Pro Ala Phe Glu Val Ala Pro
        35                  40                  45
Asp Trp Glu Ser Tyr Asp Phe Arg Lys Leu Asp Pro Ser Asn Pro Glu
    50                  55                  60
Asp Lys Lys Leu Val Glu Asp Met Trp Ala Trp Asp Thr Ser Val Thr
65                  70                  75                  80
Val Phe Thr Thr Gly Leu Glu Asn
                85
```

<210> 22690
<211> 386
<212> PRT
<213> A.fumigatus

<400> 22690

```
Ile Ser Leu Ala Thr Pro Pro Phe Gly Arg Lys Phe Pro Lys Met Glu
1               5                   10                  15
Leu Thr Leu Phe Asp Arg Cys Lys Pro Pro Leu Val Pro Asn Ile Leu
            20                  25                  30
Arg Leu Thr Gly Thr Lys Val Thr Ser Gln Asn Glu Lys Thr Thr Leu
        35                  40                  45
Leu Gly Lys Thr Lys Gln Asp Tyr Ala Ala Ile Leu Arg Trp Leu Ser
    50                  55                  60
Phe Val Asn Ala Glu Val Leu Pro Lys Leu Gly Ala Trp Tyr Arg Pro
65                  70                  75                  80
Leu Leu Gly Leu Asp Pro Tyr Asn Lys Lys Asn Val Glu Asp Ala Val
                85                  90                  95
Lys Ala Ala Asn Lys Ala Leu Ala Val Leu Glu Lys His Leu Thr Ala
            100                 105                 110
Asn Thr Tyr Leu Val Gly Glu Arg Ile Thr Leu Ala Asp Tyr Phe Gly
        115                 120                 125
Ala Ser Leu Leu Thr Arg Ala Phe Ala Thr Val Leu Asp Lys Ala Trp
    130                 135                 140
Arg Ser Glu Asn Val Ala Val Thr Arg Trp Tyr Asn Thr Ile Ile Asn
145                 150                 155                 160
Gln Ala Pro Phe Lys Ala Val Val Pro Ser Pro Val Phe Ala Glu Glu
                165                 170                 175
Ala Ile Lys Tyr Thr Pro Pro Lys Lys Glu Glu Lys Pro Lys Ala Ala
            180                 185                 190
Pro Ala Pro Ala Lys Ala Ala Ala Pro Ala Ala Glu Pro Glu Ala Gln
        195                 200                 205
Pro Glu Lys Lys Pro Lys His Pro Leu Glu Ala Leu Gly Lys Pro Glu
    210                 215                 220
Phe Val Leu Asp Glu Trp Lys Arg Gln Tyr Ser Asn Glu Asp Thr Arg
225                 230                 235                 240
Pro Val Ala Leu Pro Trp Phe Trp Gln Asn Tyr Lys Pro Glu Glu Tyr
                245                 250                 255
Ser Leu Tyr Ala Val Asp Tyr Lys Tyr Asn Asn Glu Leu Lys Leu Thr
            260                 265                 270
Phe Met Ala Asn Asn Leu Ile Gly Lys Ile Leu Leu Leu Trp Leu Gly
        275                 280                 285
Leu Thr Pro Pro Ser Asp Phe Ser Pro Lys Val Val Ser Thr Pro Val
    290                 295                 300
Leu Arg Leu Pro Ala Ser Thr Ser Ser Val Leu Ser Pro Phe Thr Ala
305                 310                 315                 320
```

```
Arg Thr Thr Thr Ala Leu Ser Ala Val Ser Ser Leu Ser Val Val Arg
                325                 330                 335
Ile Gly Ser Pro Pro Leu Arg Ser Pro Leu Thr Gly Arg Ala Thr Thr
            340                 345                 350
Ser Ala Ser Ser Thr Pro Pro Thr Pro Arg Thr Arg Ser Ser Ser Arg
        355                 360                 365
Thr Cys Gly Pro Gly Thr Pro Pro Ser Leu Ser Ser Pro Arg Gly Trp
    370                 375                 380
Lys Ile
385
```

<210> 22691
<211> 77
<212> PRT
<213> A.fumigatus

```
<400> 22691
Lys Phe Ile Ser Ser Pro Ser Arg Arg Glu Cys Lys Ile Lys His Ile
1               5                   10                  15
Gly Val Ser Ser Val Thr Ser Ala Thr Leu Arg Arg Ala Cys Lys Ile
            20                  25                  30
Ala Asn Val Val Ala Val Gln Thr Glu Tyr Cys Val Phe Ser Arg Asp
        35                  40                  45
Ile Glu Gly Pro Ser Gly Thr Asn Leu Leu Ala Pro Cys Leu Glu Leu
    50                  55                  60
Gly Val Ala Leu Val Ala Ser Cys Pro Leu Gly Arg Gly
65                  70                  75
```

<210> 22692
<211> 83
<212> PRT
<213> A.fumigatus

```
<400> 22692
Pro Leu Ile Ala Asp Gln Leu Tyr Leu Ser Ser Leu Tyr Gly Asp Asn
1               5                   10                  15
Glu Glu Leu Leu Gly Lys Trp Phe Arg Arg Thr Gly Lys Arg Asp Gln
            20                  25                  30
Ile Phe Leu Ala Thr Lys Phe Gly Phe Val Gln Gly Gly Lys Pro His
        35                  40                  45
Glu Ile Asn Ser Ser Ala Glu Tyr Cys Lys Lys Ala Cys Glu Ala Ser
    50                  55                  60
Leu Lys Arg Leu Gly Val Asp Ser Ile Asp Leu Cys Ser His Leu Asn
65                  70                  75                  80
Pro Ala Tyr
```

<210> 22693
<211> 88
<212> PRT
<213> A.fumigatus

```
<400> 22693
Asp Gln Ser Ser Cys Gly Gln Glu Gly Lys Gly Glu Leu Pro His Gln
1               5                   10                  15
Asn Leu Arg Arg Glu Val Gly Ala Ile Pro Arg Ser Ser Ile Pro Leu
```

```
            20                  25                  30
Val Trp Thr Tyr Met Asn Thr Thr Val Asp Gln Thr Pro Asn Leu Asp
        35                  40                  45
Pro Asp Phe Asp Lys Asn Asp Phe Lys Ala Pro Met Ala Gly Phe Gly
    50                  55                  60
Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Arg Tyr Phe Gly Gly Asp
65                  70                  75                  80
Leu Lys Leu Ile Ser Met Glu Gly
                85
```

<210> 22694
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22694

```
Arg Glu Pro Arg Tyr Asp Gly Lys Ser Ser Leu Pro Gln Leu Ser Tyr
1               5                   10                  15
Tyr Asn Glu Phe Leu Leu Leu Pro Leu Asp Ile Arg Leu Ile Asn Glu
            20                  25                  30
Gly Trp Leu Leu Glu Thr Tyr Gln Val Ser Gln Asn Gly Leu Trp Arg
        35                  40                  45
Val Ser Val Leu Asn Asp Arg Thr Ala Asp Ser Ile Ser Gln Glu Thr
    50                  55                  60
Ile Arg Leu Tyr
65
```

<210> 22695
<211> 62
<212> PRT
<213> A.fumigatus

<400> 22695

```
Tyr Ser Lys Cys Ala Leu Cys Thr Arg Gln Gly Arg Leu Cys Lys Lys
1               5                   10                  15
Asp Phe His Thr Lys Lys Glu Trp Asp Leu Leu Lys Arg Ala Glu Lys
            20                  25                  30
Lys Ile Ala Ser Glu Leu Ser Val Thr Asn Asn Lys Leu Glu Leu Leu
        35                  40                  45
Tyr Pro Glu Leu Gln Gln Leu Gln Glu His Leu Glu Lys Ile
    50                  55                  60
```

<210> 22696
<211> 307
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (303)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22696

```
Ser Ala Asp Gln Ser Leu Asn Val Ile Glu Ser Gln Leu Met Pro Tyr
1               5                   10                  15
Lys His His Arg Val Leu Phe Ile Asp Lys Gly Gln Asn Gly Leu Gln
```

```
            20                  25                  30
Ala Glu Asn Ile Ile Lys Met Leu Lys Gln Leu Glu Leu Glu Pro Ile
        35                  40                  45
Val Val Arg Asp Glu Asp His Val Pro Pro Pro Glu Ile Gln Asp Pro
    50                  55                  60
Ser Gly Lys Glu Ser Gly His Ala Tyr Asp Val Ile Ile Val Asp Ser
65                  70                  75                  80
Val Asp Thr Ala Arg Leu Leu Arg Thr Tyr Asp Asp Phe Lys Tyr Val
                85                  90                  95
Pro Ile Val Leu Val Cys Pro Leu Val Cys Val Ser Leu Lys Ser Ala
            100                 105                 110
Leu Asp Leu Gly Ile Ser Ser Tyr Met Thr Thr Pro Cys Gln Pro Ile
        115                 120                 125
Asp Leu Gly Asn Gly Met Leu Pro Ala Leu Glu Gly Arg Ser Thr Pro
    130                 135                 140
Ile Thr Thr Asp His Ser Arg Ser Phe Asp Ile Leu Leu Ala Glu Asp
145                 150                 155                 160
Asn Asp Val Asn Gln Lys Leu Ala Val Lys Ile Leu Glu Lys His Asn
                165                 170                 175
His Asn Val Ser Val Val Gly Asn Gly Leu Glu Ala Val Glu Ala Val
            180                 185                 190
Lys Lys Arg Arg Tyr Asp Val Ile Leu Met Asp Val Gln Met Pro Val
        195                 200                 205
Met Gly Gly Phe Glu Ala Thr Gly Lys Ile Arg Glu Tyr Glu Arg Glu
    210                 215                 220
Ala Gly Leu Ser Arg Thr Pro Ile Ile Ala Leu Thr Ala His Ala Met
225                 230                 235                 240
Leu Gly Asp Arg Glu Lys Cys Ile Gln Ala Gln Met Asp Glu Tyr Leu
                245                 250                 255
Ser Lys Pro Leu Lys Gln Asn Gln Met Met Gln Thr Ile Leu Lys Cys
            260                 265                 270
Ala Thr Leu Gly Gly Ser Leu Leu Glu Lys Ser Lys Glu Ser Arg Leu
        275                 280                 285
Ser Ser Ser Gly Glu Ile His His His Ser Glu Gly Lys Arg Xaa Gly
    290                 295                 300
Met Glu Thr
305
```

<210> 22697
<211> 99
<212> PRT
<213> A.fumigatus

<400> 22697

```
Leu His Pro Lys Thr Ala Thr Met Val Arg Lys Val Val Val Val Thr
1               5                   10                  15
Gly Ser Ala Ser Gly Met Gly Leu Ala Thr Ala Thr Ser Leu Ala Ser
            20                  25                  30
Ser Gly Ala His Leu Ala Leu Trp Asp Ile Asn Ser Ser Lys Leu Lys
        35                  40                  45
Glu Ile Ala Lys Ser Phe Lys Ala Gln Tyr Ser Gly Lys Ile Leu Ala
    50                  55                  60
Gln Thr Val Asp Val Ser Asp Arg Ser Ala Val Lys Ala Ala Leu Ile
65                  70                  75                  80
Glu Ala Gln His His Leu Gly Pro Ile Asn Ala Ile Ala Asn Phe Glu
                85                  90                  95
```

Gly Leu Val

<210> 22698
<211> 112
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (86)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22698
Ala Ser Pro Val Cys Pro Ala Phe Asp Asp Ala Asn Val Ser Gly His
1 5 10 15
Leu Val Asp Tyr Ala Ile Gly His Asn Val Leu Val Pro Arg Thr Leu
20 25 30
Leu Asp Tyr Leu Arg Val Leu Phe Gly Val Pro Val Glu Ala Met Gln
35 40 45
Asp Leu Val Ile Val Thr Pro Glu Asn Gln Ile Asp Phe Gly Asn Pro
50 55 60
Val Cys Gly Ile Ile Cys Tyr Ser Asp Ile Leu Arg Lys Pro Arg Val
65 70 75 80
Arg Asp Arg Asp His Xaa Val Thr Thr Phe Ile Lys Thr Gln Val Ser
85 90 95
Arg Lys Leu Leu Ser Asp His Gly Gly Ile Leu Asp Val Gln Arg Gly
100 105 110

<210> 22699
<211> 170
<212> PRT
<213> A.fumigatus

<400> 22699
Ala Phe Ser Leu Gln Cys Val Leu Arg Phe His Trp Leu Thr Arg Ala
1 5 10 15
Lys Val Ser Thr Trp Asn Leu Ile Phe Glu Met Leu Cys Gly Ser His
20 25 30
Pro Phe Trp Asp Ser Gly Ser Pro Val Lys Ile Tyr Glu Asn Ile Leu
35 40 45
Arg Gly Arg Val Lys Tyr Pro Pro Tyr Leu His Pro Asp Ala Val Asp
50 55 60
Leu Leu Ser Gln Leu Ile Thr Ala Asp Leu Thr Lys Arg Leu Gly Asn
65 70 75 80
Leu His Gly Gly Ser Glu Asp Val Lys Asn His Pro Trp Phe Ala Glu
85 90 95
Val Thr Trp Asp Arg Leu Ala Arg Lys Asp Ile Asp Ala Pro Tyr Val
100 105 110
Pro Pro Ile Arg Gly Gly Gln Gly Asp Ala Ser Gln Tyr Asp Arg Tyr
115 120 125
Pro Glu Glu Thr Glu Gln Tyr Gly Gln Gln Gly Glu Asp Val Tyr Val
130 135 140
Phe Gln Leu Arg Ile Ile Leu Asp Gln Ser Thr Asn Arg Asn Ser Cys
145 150 155 160
Tyr Arg His Gly His Leu Phe Pro Asp Phe

165 170

<210> 22700
<211> 121
<212> PRT
<213> A.fumigatus

<400> 22700
Leu His Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Ile Leu Ile Met
1 5 10 15
Glu Leu Ser Ser Gly Glu His Ala Val Ser Thr Ser Gly Ile Leu Tyr
20 25 30
Asp Glu Gly Phe Lys Gly Tyr Thr Pro Pro Ser His Tyr Ser Leu Glu
35 40 45
Val Tyr Ile Ser Ser Asp Ala Asp Met Leu Met His Cys Thr Trp Ser
50 55 60
Leu Glu Asp Ser Lys Val Val Arg Gly Pro Glu Ala His Ser His Thr
65 70 75 80
Thr Val Gln Pro Val Arg Pro Val Arg Ile Thr Thr Gly Arg Gln Thr
85 90 95
Ser Leu Asp Lys Arg Ser Trp Arg Ser His His Phe Thr Arg Leu Phe
100 105 110
Gly Lys Ser Met Leu Ala Ile Thr Ser
115 120

<210> 22701
<211> 138
<212> PRT
<213> A.fumigatus

<400> 22701
Leu Arg Met Leu Met Phe Pro Pro Gln Thr Arg Pro Ser Cys Leu Leu
1 5 10 15
Val Ser Thr Ile Ser Pro Ser Ser Ser Met Val Arg Ser Met Asn Thr
20 25 30
Asn Thr Ser Val Glu Asn Asn Pro Glu Val Met Ser His Leu Val His
35 40 45
Gln Leu Gly Leu Pro Pro Thr Leu Gly Phe Thr Asp Val Tyr Ser Ile
50 55 60
Asp Glu Pro Asp Leu Leu Ala Leu Val Pro Arg Pro Ser His Ala Leu
65 70 75 80
Leu Leu Val Phe Pro Ile Thr Pro Ser Tyr Glu Ala Ser Arg Val Ala
85 90 95
Glu Asp Gly Pro Leu Pro Glu Tyr Asn Gly Ser Gly Pro Gly Glu Pro
100 105 110
Val Met Trp Phe Lys Gln Thr Ile Arg Asn Ala Cys Gly Leu Ile Gly
115 120 125
Leu Leu His Ala Val Ala Asn Gly Glu Thr
130 135

<210> 22702
<211> 193
<212> PRT
<213> A.fumigatus

<400> 22702

```
Pro Ser Ile Asp Ile Tyr Gln Pro Leu Asp Cys Glu Glu Leu Phe Ser
1               5                  10                  15
Val His Phe Leu Leu Lys Leu Lys Cys Lys Tyr Lys Asp Thr Ile Met
            20                  25                  30
Gly Ser Pro Arg Leu Leu Ser Arg Thr Pro Leu Thr Ser Ile Leu Arg
        35                  40                  45
Leu Pro Ile Gln Thr Thr Asn Gly Ala Asn Leu Ile Pro Arg Thr Leu
    50                  55                  60
Ser Arg Val His Arg Ser Phe Ile Ser Ser Gln Thr Lys Ala Ala Pro
65                  70                  75                  80
Leu Lys Met Ser Asn Thr Asp Thr Leu Ile Glu Leu Ala Lys Ala Arg
                85                  90                  95
Arg Thr Ile Tyr Lys Leu Gly Lys Asn Ser Pro Val Pro Asp Ser Lys
            100                 105                 110
Ile Glu Glu Val Val Asn Ala Ala Ile Gln His Val Pro Ser Ser Phe
        115                 120                 125
Asn Thr Gln Ser Thr Arg Leu Val Val Leu Leu His Ala Glu His Glu
    130                 135                 140
Arg Leu Trp Glu Ile Val Ile Asp Thr Phe Met Gln Leu Val Gln Ser
145                 150                 155                 160
Gly Ala Val Pro Glu Thr Thr Trp Lys Ile Gln Thr Leu Pro Lys Leu
                165                 170                 175
Gln Gly Met Asn Asn Gly Val Gly Thr Val Cys Leu Cys Val Glu Ser
            180                 185                 190
Leu
```

<210> 22703
<211> 63
<212> PRT
<213> A.fumigatus

```
<400> 22703
Ile Leu Glu Ala Asn Pro Ser Leu Gln Ile Leu Phe Tyr Glu Asp Pro
1               5                  10                  15
Ala His Ile Lys Pro Phe Ser Glu Lys Phe Ala Thr Tyr Lys Asp Tyr
            20                  25                  30
Phe Gln Pro Trp Gly Gly Ala Leu Glu Arg Pro Ala Pro Val Leu Pro
        35                  40                  45
Tyr Val Pro Pro Pro Pro Val Ser Ala Ala Ile Arg Ala Arg Ala
    50                  55                  60
```

<210> 22704
<211> 86
<212> PRT
<213> A.fumigatus

```
<400> 22704
Thr Pro Val Asn Leu Glu Trp Val Gly Arg Cys Lys Glu Arg Lys Gly
1               5                  10                  15
Gly Asp Phe His Met Ile Tyr Gln Pro Met Ser Leu Pro His Thr Thr
            20                  25                  30
Asp Ile Cys Cys Asp Ala Ala Asp Leu Gly Leu Glu Tyr Leu Gly Leu
        35                  40                  45
Thr Tyr Ser Tyr Pro Gln Arg Arg Phe Asp Thr Gln Pro Gly Cys Ser
    50                  55                  60
```

```
Gln Ala Thr Glu Ile Asp Ala Asn Thr Ile Asp Leu His Trp Phe Leu
65                  70                  75                  80
Arg Ala Arg Pro Gly Arg
                85
```

<210> 22705
<211> 126
<212> PRT
<213> A.fumigatus

<400> 22705

```
Leu His Arg Gln Thr Pro His Glu Ile Leu Pro Lys Leu Phe Gly Thr
1               5                  10                  15
Leu Arg Glu Arg Tyr Ala Glu Arg Arg Gly Gly Tyr Thr Arg Val Leu
            20                  25                  30
Arg Ile Glu Pro Lys Lys Asp Asp Gln Ala Pro Ser Ala Ile Leu Glu
        35                  40                  45
Leu Val Asp Gly Pro Lys Asp Met Arg Phe Ala Met Thr Ala Arg Thr
    50                  55                  60
Val Ala Arg Gln Arg Ala Gln Gly Leu Glu Thr Leu Asn Glu Leu Thr
65                  70                  75                  80
Thr Leu Asn Val His Lys Val Thr Arg Phe Arg Lys Gly Gly Val Glu
                85                  90                  95
Asp Leu Glu Lys Ala Ile Lys Arg Leu Glu Ile Glu Gln Lys Lys Ala
            100                 105                 110
Pro Thr Thr His Lys Gly Glu Lys Glu Val Glu Ser Lys Gln
        115                 120                 125
```

<210> 22706
<211> 292
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (283)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22706

```
Gly Arg Gly Glu Ser Leu Glu Gly Glu Trp Glu Asn Val Gly Ser Arg
1               5                  10                  15
Ser Glu Gly Ile Arg Asn Lys Asn Asn Gly Ala Pro Gly Arg Asn Val
            20                  25                  30
Glu Cys Val Arg Arg Ile Ser Arg Lys Gly Thr Pro Ala Val Asp Pro
        35                  40                  45
Gly Arg Arg Leu Pro Tyr Asn Glu Ala His Leu Leu Val Trp Arg Thr
    50                  55                  60
Arg Ser Met Ala Arg Trp Arg Asp Arg Leu Ala Thr Ala Lys Asn Ala
65                  70                  75                  80
Asn Glu Met Cys Arg Val Phe Ser Lys Phe Asn Ala Leu Leu Val Arg
                85                  90                  95
Pro Lys Ile Arg Gly Ala Ile Gly Glu Tyr Gln Thr Gln Leu Ile Glu
            100                 105                 110
Asn Val Lys Gln Asp Ile Ser Ala Leu His Glu Arg Phe Lys Gln Gln
        115                 120                 125
Tyr Gly His Ser Glu Ala His Ala Met Ala Gln Leu His Asp Leu Pro
```

```
    130                 135                 140
Pro Val Ser Gly Ala Ile Val Trp Ala Arg Gln Ile Glu Arg Gln Leu
145                 150                 155                 160
Asp Gly Tyr Met Arg Lys Val Glu Asp Val Leu Gly Glu Asp Trp His
                165                 170                 175
Leu His Ser Glu Gly Gln Lys Leu Gln Ala Glu Ser Asn Leu Phe Arg
            180                 185                 190
Lys Lys Leu Asp Thr Arg Pro Val Phe Glu Ser Trp Leu His Asp Val
        195                 200                 205
Gln Arg Arg His Ile Thr Ile Ala Gly Arg Leu Phe Asn Val Thr Arg
    210                 215                 220
Asn Arg Ala Ala Gly Asn Ser Leu Glu Leu Ser Val Asn Phe Asp Ala
225                 230                 235                 240
Gln Ile Ile Ala Leu Phe Lys Glu Val Arg Asn Leu Ile Trp Leu Asn
                245                 250                 255
Phe Gln Val Pro His Ala Val Ser Ser Ile Ser Lys Glu Ala Lys Arg
            260                 265                 270
Val Tyr Pro Tyr Ala Ile Ser Pro Asp Gly Xaa Ser Pro Thr Gly Gln
        275                 280                 285
Ile Ser Val Ala
    290
```

<210> 22707
<211> 66
<212> PRT
<213> A.fumigatus

<400> 22707

```
Leu Thr Thr Thr Phe Ser Ser Met Cys Leu Glu Asp Val Asn Gly Thr
1               5                   10                  15
Asp Leu Met His Val Leu Ser Cys Arg His Val Tyr His Ala His Cys
            20                  25                  30
Leu Glu Gln Trp Phe Leu Gly Arg His Phe Ser Cys Pro Leu Cys Asn
        35                  40                  45
Arg Ser Phe Phe Glu Glu Val Glu Pro Gly Pro Glu Pro Gly Pro Asp
    50                  55                  60
Asn Val
65
```

<210> 22708
<211> 67
<212> PRT
<213> A.fumigatus

<400> 22708

```
Arg Gly Ile Phe Val Gln Val Arg Arg Asn Ala Ala Arg Thr Ser Ala
1               5                   10                  15
Ser Thr Val Val Lys Glu Thr Lys Gln His Ser Asp Thr Glu Met Leu
            20                  25                  30
Gln Lys Leu Glu Ser Ile Cys Pro Thr Lys Pro Tyr Asp Glu Trp Val
        35                  40                  45
Glu His Thr Gln Thr Glu Gln Asp Leu Ser Asp Arg Ser Ser Ala His
    50                  55                  60
Phe Thr Trp
65
```

<210> 22709
<211> 101
<212> PRT
<213> A.fumigatus

<400> 22709
Lys Cys Trp Leu Ser Ile Pro Gly Leu Ile Tyr Leu Val Ala Val Pro
1 5 10 15
Met Trp Pro Arg Ala Arg Arg Phe Gly Asn Val Tyr Ala Phe Ala Thr
20 25 30
Val Asp Cys Leu Tyr Ala Ile Leu Trp Phe Ser Ala Trp Ile Cys Val
35 40 45
Ala Ser Tyr Val Ala Gln Gly Lys Ala Glu Gly Lys Ser Asn Ser Asp
50 55 60
Asn Asp Lys Asn Lys Asp Asp Lys Lys Ser Gly Cys Asp Ala Trp Lys
65 70 75 80
Tyr Gly Asn Ala Ser Lys Cys Lys Ile Ser Thr Ala Thr Val Ile Leu
85 90 95
Gly Val Val Ile Leu
100

<210> 22710
<211> 160
<212> PRT
<213> A.fumigatus

<400> 22710
Val Ser Ser Pro Ile Leu Val Phe Arg Thr Lys Phe Leu Leu Met Ser
1 5 10 15
Leu Val Cys Ser Leu Leu Phe Val Ala Thr Ala Trp Met Ser Phe Arg
20 25 30
Asn Val Met His Phe Arg Arg Thr Gly Thr Leu Pro Asp Ala Val Ser
35 40 45
Asp Pro Thr Phe Ala Ala Gln Ser Lys Ala Ala Phe Ser Ser Asn Pro
50 55 60
Ala His Asp Phe Asp Glu Glu Glu Asp Asp Phe Arg Ser Gly Arg Ala
65 70 75 80
Gly Met Gly Ala Ser Val Arg Asn Asp Gln Asp Glu Asp Tyr Ala Leu
85 90 95
Leu His Gln Ser Glu Val Asp Asp Leu Gly Asn Gly Asn Gly Arg Thr
100 105 110
Ala Met His Gly Ala Tyr Asp Pro Thr Ala Thr Thr Gly Ser Gly Ser
115 120 125
Val Leu His Asp Tyr Asn Thr Ser Tyr Gly Gly Ala His Gly Gln His
130 135 140
Tyr Ala Gln Pro Ser Glu Phe Gly Ser Thr Leu Ser Gly Tyr Gly Arg
145 150 155 160

<210> 22711
<211> 90
<212> PRT
<213> A.fumigatus

<400> 22711
Thr Trp Arg Leu Leu Gln Ser Arg His Gly Phe Pro His Trp Leu Met
1 5 10 15

```
Pro Glu Ser His Cys Arg Ser Leu Asp Pro Lys Ser Thr Arg Glu Gly
            20                  25                  30
Arg His Phe Arg Gln Gly Gly Cys Pro Gln Gly Arg Leu Trp Cys Ala
        35                  40                  45
Cys Glu Trp Ser His Val Asp Ser Ala Phe Thr Val Ala Phe Asp Asp
    50                  55                  60
Gln Tyr Asp Asn Leu Leu Thr Ala Val Arg Glu Ala Thr Asn Thr Gly
65                  70                  75                  80
Ile Lys Val Cys Leu Ser Met Gln Glu Leu
                85                  90
```

<210> 22712
<211> 293
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (136)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22712

```
Leu Leu Tyr Ser Pro Lys Gln Gln Pro Thr Ala Thr Leu Ile His Pro
1               5                   10                  15
Ser Leu Thr Ala Ser Asn Cys Asn Glu Leu Lys Pro Ala Asn Pro Asp
            20                  25                  30
Pro Gln Ile Ser Gln Asn Gly Ser Gly Ser Ala Asp Leu Asp Arg Gly
        35                  40                  45
Val Ile Gly Asp Asp Asp Asp Asp Glu Asp Ala Glu Glu Asn Gly Val
    50                  55                  60
Asn Thr Glu Thr Pro Asn Val Gly Lys Leu Asn Gln Pro Pro Phe Pro
65                  70                  75                  80
Asn Leu Asp Gln Val His Val Thr Thr Thr Asp Gly Leu Cys Ile Thr
                85                  90                  95
Glu Lys Lys Lys Lys Arg Lys Lys Ser Asn Lys Lys Lys Lys Lys Lys
            100                 105                 110
Thr Lys Ser Gly Ala Leu Pro Ala Thr Glu Leu Lys Gln Thr Ser Pro
        115                 120                 125
Pro Arg Val Leu Val Ser Thr Xaa Phe Pro Ser Glu Tyr Pro Val Gly
    130                 135                 140
Glu Leu Val Pro Tyr Asp Cys Thr Ala Arg Thr Thr Asp Glu Glu Leu
145                 150                 155                 160
Arg Tyr Asn Ser Arg Leu Trp Asp Asp Asp Phe Leu Pro Asp Tyr Arg
                165                 170                 175
Gln Ala Ala Glu Ile His Arg Gln Val Arg Gln Tyr Ala Gln Lys Glu
            180                 185                 190
Leu Ile Lys Pro Gly Ala Thr Leu Leu Ser Ile Ala Glu Gly Ile Glu
        195                 200                 205
Ala Gly Val Arg Ala Leu Ser Gly His Gln Gly Leu Glu Pro Gly Asp
    210                 215                 220
Phe Phe Lys Ala Gly Met Gly Phe Pro Thr Gly Leu Cys Leu Asn His
225                 230                 235                 240
Ile Ala Ala His Trp Thr Pro Asn Pro Arg Glu Lys Asp Val Ile Leu
                245                 250                 255
Asp Lys Gly Asp Val Leu Lys Val Asp Phe Gly Val His Val Asn Gly
            260                 265                 270
```

```
Arg Met Leu Ile Arg His Leu Pro Ser Leu Leu Thr Thr Ser Met Ile
        275                 280                 285
Ile Phe Leu Leu Gln
    290

<210> 22713
<211> 80
<212> PRT
<213> A.fumigatus

<400> 22713
Ile Pro Ser Leu Ala Val Val Arg Tyr Leu Leu Thr Thr Ile Tyr Ala
1               5                   10                  15
Trp Asp Val Ala His Pro Ala Ser Phe Met Asp Ser Cys Met Thr Ser
            20                  25                  30
Arg Tyr Tyr Gly Thr Ile Ala Leu Thr Ile Phe Leu Lys Glu Glu Leu
        35                  40                  45
Ser Cys Leu Arg Val Gly Gln Ile Met Gln His Ile Cys Gln Arg Ile
    50                  55                  60
Asn Lys Arg Thr Ile His Arg Leu Leu Thr Phe Val Ile Leu Val Ile
65                  70                  75                  80

<210> 22714
<211> 178
<212> PRT
<213> A.fumigatus

<400> 22714
Ser Ala Leu Ala Cys Tyr Pro Arg Ile Lys Asn Phe His Gly Arg Ser
1               5                   10                  15
Gln Gly Ser Gly Cys Leu Gly Phe Leu Pro Ser Leu Val Leu Asp Ser
            20                  25                  30
Ser Ser Arg Ile Pro Met Ser Asp Cys Ala Ser Ser Ala Ser Phe Arg
        35                  40                  45
Ala Gly Pro Pro Ser Pro Ser Ser Pro Ala Ser Gly Ser Leu Lys Glu
    50                  55                  60
Asn His Pro Pro Tyr Ile Ser Ser Glu His Phe Pro Gln Thr Pro Thr
65                  70                  75                  80
Ser Pro Pro Leu Met Ser Val Ser Ala Ser Asn Tyr Ala Thr Asn Ile
                85                  90                  95
Ala Ser Ser Gln Pro Pro Ser Gln Ala Thr Ser Gln Pro Ala Asn Leu
            100                 105                 110
Ser Ser Pro Pro Ser Ser Ala Pro Met Ser Thr Gln Thr Ser Gln Gln
        115                 120                 125
Pro Thr Leu Gly Pro Thr Asn Ser Phe Pro Thr Pro Ala Ser Ser Val
    130                 135                 140
Ser Gly His Phe Met Gly Pro Thr Ser Val Glu Asp Ser Glu His Val
145                 150                 155                 160
Gly Thr Ser Leu Gly Ser Ser Pro Arg Gly Trp Lys Asp Pro Arg Gly
                165                 170                 175
Cys Tyr


<210> 22715
<211> 225
<212> PRT
```

<213> A.fumigatus

<400> 22715

```
Glu Ile Asn Gly Gln Asn Gly Val Pro Arg Asp Thr Ser Met Asn Phe
1               5                  10                  15
Met Gln Asp His Ser Gly Ala Gly Ile Ser Met Ser His Pro Gly His
            20                  25                  30
Met Ser Gln Met Tyr Ser Asn Thr Pro Glu Gly Ala Pro Met His Ser
        35                  40                  45
Pro Phe Ile His Ser Phe Asn Tyr Asp His Phe Arg Gly Leu Asn Gln
    50                  55                  60
Gln Gln His Asn Pro Ser His Leu Gln Gly Ser His Phe Glu Gln Ser
65                  70                  75                  80
Tyr Val Asn Ser Lys Ala Arg Pro Ser Leu Gln Ala Ile Asp Arg Thr
                85                  90                  95
Ser Ser Asp Gly Arg Ser Pro Met Thr Pro Lys Thr Pro Ala Leu Gly
            100                 105                 110
Ala Leu Thr Leu Gly Thr Pro Glu Ser Gly Ser Phe Pro Thr Gln Pro
        115                 120                 125
Ile Arg Thr Gly Leu Gln Pro Arg His Gln Lys Thr Leu Ser Asn Gln
    130                 135                 140
Trp Asp Gly Thr Pro Gly Ser Ala His Ser Phe Gly Met Glu Ser Pro
145                 150                 155                 160
Ile Ser Ser Pro Gly His Pro Ser His His Ala Ala Ile Ser Glu Ile
                165                 170                 175
Leu Lys Ser Gly Lys His Ala Ser Leu Pro Ala Lys Val Asp Thr His
            180                 185                 190
Ile Pro Gly Ser Ala Gln Asp Leu Glu Ser Gln Glu Ala Lys Arg Arg
        195                 200                 205
Arg Arg Arg Val Phe Thr Arg Leu Arg Glu Ala Ser Gly Cys Lys Ser
    210                 215                 220
Lys
225
```

<210> 22716
<211> 126
<212> PRT
<213> A.fumigatus

<400> 22716

```
Leu Arg Gln Ile Ile Lys Thr Met Ser Thr Pro Arg Ile Glu His Tyr
1               5                  10                  15
Thr Thr Asp Val His Ala His Trp Glu Gly Ile His Pro Gln Asp Trp
            20                  25                  30
Ala Glu Val Asp Leu Ile Gly Tyr Glu Asn Ala Met Asp Lys Met Tyr
        35                  40                  45
Arg Thr Leu Cys Glu Asn Pro Asp Ala Ala Leu Val Gln Val Gly His
    50                  55                  60
Arg Ser Lys Leu Leu Asn Asp His Gly Ser Asp Tyr Arg Phe Asn Gly
65                  70                  75                  80
Lys Phe Thr Ser Glu Gln Thr Lys Pro Glu Arg Ser His His Asp Tyr
                85                  90                  95
Asn His Phe Gly Lys Leu Met Lys Trp Glu Gly Asp Arg Trp Tyr Lys
            100                 105                 110
Tyr Asp Phe Glu Val Glu Val Thr Asp His Thr Arg Ser Glu
        115                 120                 125
```

<210> 22717
<211> 75
<212> PRT
<213> A.fumigatus

<400> 22717
Glu Ser Tyr Asp Ser His Ser Asn Thr Arg His Asp Ile Met Ile Leu
1 5 10 15
Leu His Pro Glu Glu Gln Phe Ala Gln Gln Phe Asn Asn Leu Glu Thr
20 25 30
Pro Tyr Leu Ser Arg Leu Pro Phe Ser Arg Leu Lys Asn Pro Leu Tyr
35 40 45
Phe Tyr Pro Ile Gln Asn Ser Asn Tyr Ile Ser Ser Gln Ala Thr Ala
50 55 60
Tyr Leu Val Gly Asn Ser Asp Phe Gly Arg Ser
65 70 75

<210> 22718
<211> 178
<212> PRT
<213> A.fumigatus

<400> 22718
Arg Gly Ser Phe Asp Pro Gln Trp Val Lys Thr Thr Leu Leu Asn Ile
1 5 10 15
Trp Asn Gln Trp Val Asp Ser Asp Phe Ser Tyr Ile Trp Ala Arg Glu
20 25 30
Asn Phe Leu Gln Gln Arg Ser Leu Thr Arg Ala Arg Asp Val Arg Asp
35 40 45
Gln Leu Ala Lys Leu Cys Asp Arg Val Glu Val Thr Ile Ser Thr Cys
50 55 60
Gly Ser Asn Asn Tyr Val Pro Ile Gln Lys Ala Ile Thr Ala Gly Phe
65 70 75 80
Phe Pro Asn Ala Ala Arg Leu Gln Arg Gly Gly Asp Ser Tyr Arg Thr
85 90 95
Val Lys Asn Gly Gln Thr Val Tyr Leu His Pro Ser Ser Thr Leu Phe
100 105 110
Glu Val Asn Pro Arg Trp Val Ile Tyr Tyr Glu Leu Val Leu Thr Ser
115 120 125
Lys Glu Tyr Met Arg Ser Asn Met Pro Leu Gln Pro Glu Trp Leu Val
130 135 140
Glu Val Ala Pro His Tyr Tyr Lys Lys Lys Asp Leu Glu Thr Leu Gly
145 150 155 160
Leu Asp Arg Lys Val Pro Lys Gly Gln Gly Ala Ala Gly Glu Lys Ser
165 170 175
Lys Asp

<210> 22719
<211> 299
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (6),(64)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22719
Ala Phe Ser Phe Cys Xaa Ser Pro Thr Arg Gly Gly Glu Leu Asp Gln
1 5 10 15
Val Ala Phe His Ser Ile Met Ala Ala Phe Leu Gly Gly Asn Gln His
20 25 30
Arg His Pro Ser Ser Gly Ala Lys Leu Tyr His Ser Pro Ser Asp Leu
35 40 45
Glu Ser Asp Ser Asp Ser Glu Asp Asp Thr Ala Gly Thr Arg Phe Xaa
50 55 60
Glu His His Arg Gly Arg Ser Ser Thr Gln Met Lys Asn Lys Ser Arg
65 70 75 80
Thr Val Ser Lys Arg Arg Phe Lys Pro Ser Leu Thr Leu Ala Thr Gly
85 90 95
Thr Gln Asn Gly Ser Ala Gly Gly Glu Met Asn Ser Asn Ile Glu Met
100 105 110
Arg Lys Arg Asp Thr Ser Leu Glu Ser Ser Gly Gly Arg Ala Ser Arg
115 120 125
Leu Met Ala Arg Gln Ser Phe Ser Leu Asn Asp Asp Pro Pro Ile Thr
130 135 140
Pro Gln Thr Pro Ala Met Ala Thr Thr Ser Phe Ala Asn Leu Pro Ser
145 150 155 160
Ser Asp Arg Arg Asn Phe Leu Leu Leu Cys Val Leu Tyr Phe Leu Gln
165 170 175
Gly Val Pro Met Gly Leu Ala Thr Gly Ser Val Pro Phe Leu Leu Lys
180 185 190
Pro Tyr Leu Ser Tyr Gly Gln Ile Gly Val Phe Ser Leu Ala Ser Tyr
195 200 205
Pro Tyr Ser Leu Lys Leu Leu Trp Ser Pro Ile Val Asp Ala Val Trp
210 215 220
Ser Gln Arg Phe Gly Arg Arg Lys Ser Trp Ile Thr Pro Val Gln Val
225 230 235 240
Ile Ala Gly Leu Ala Met Ile Tyr Leu Gly Gly His Ile Glu Glu Met
245 250 255
Met Val Lys Ala Gly Ala Asn Gly Gly Ala Gly Val Trp Asn Phe Thr
260 265 270
Tyr Trp Trp Phe Leu Leu Val Phe Phe Cys Ala Thr Gln Asp Ile Ala
275 280 285
Val Asp Gly Trp Ala Ser Ser Pro Arg Gly Cys
290 295

<210> 22720
<211> 142
<212> PRT
<213> A.fumigatus

<400> 22720
Asn Ile Asn Glu His Ile Val Thr Asn Ala Ile Tyr Ala Phe Asp Leu
1 5 10 15
Gly Asn Ile Met Glu Pro Leu Val Ser Phe Trp Gln Arg Leu Leu Leu
20 25 30
Asn Ser Asp Arg Tyr Val Tyr Asp Lys Ile Gly Ala Gly Asp Asp Pro
35 40 45
Asp Asp Asp Glu Ser Asp Phe Lys Ala Val Glu Phe Ser Asp Leu Glu

```
    50                  55                  60
Asp Ala Leu Leu Phe Glu Pro Asp Pro Glu Glu Lys Tyr Ala Cys Trp
65                  70                  75                  80
Asp Val Lys Tyr Ile Arg Arg Leu Phe Gly Phe Glu Thr Ile Gln His
                85                  90                  95
Ala Pro Ala Trp Gln Glu Leu Gly Lys Val Arg Met Pro Pro Gly Arg
            100                 105                 110
Leu Ile Ser Phe Pro Asn Ala Phe Gln Tyr Arg Met Gly Pro Leu Glu
        115                 120                 125
Leu Gln Asp Lys Thr Lys Pro Gly His Cys Arg Phe Leu Asn
    130                 135                 140

<210> 22721
<211> 89
<212> PRT
<213> A.fumigatus

<400> 22721
Asp Cys Leu Trp Gly Asn Ser Pro Leu Asp Ala Phe Gln Val Arg Leu
1               5                   10                  15
Trp Gln Thr Phe Phe Ile Gly Lys Ile Gly Ala Glu Ile Ile Thr Leu
            20                  25                  30
Phe Ser Leu Thr Ile Thr His Leu Asn Asn Ile His Ser Phe Ser Val
        35                  40                  45
Phe Asp Ile Ala Thr Asn Ile Asp Ser Arg Ala Pro Cys Pro Glu Gly
    50                  55                  60
Cys Lys Ala Gln Val His Phe Asp Cys Leu Leu Lys Val Leu Trp Met
65                  70                  75                  80
Phe Leu Phe Thr Pro Ser Asn Asn Glu
                85

<210> 22722
<211> 82
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22722
Arg Arg Ser Ala Thr Val Leu Leu Gly Thr Arg Leu Thr Asp Tyr Tyr
1               5                   10                  15
Pro Ile Asn Ser Leu Thr Asp Trp Val Pro Ile Val Pro Val His Xaa
            20                  25                  30
Ile Ile Leu Ala Gln Thr Thr Leu Ser Phe Ser Val Phe Arg Pro Ile
        35                  40                  45
Val Asn Thr Phe Ser Asp Ala His Ser Ser Glu Ile Asp Ser Leu Thr
    50                  55                  60
Ala Val Pro Leu Val Lys Ala Ser Leu Ile Ala Ala Arg Thr Pro Lys
65                  70                  75                  80
Pro Leu


<210> 22723
```

<211> 378
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (205)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22723

```
Thr Pro Cys Pro Asp Ser Ser Arg Leu Val Cys Glu Asp Ala Lys Ala
1               5                  10                  15
Leu Cys Val Lys Pro Ser Leu Leu Leu Leu Asp Asp Pro Thr Ala His
            20                  25                  30
Leu Asp Leu Glu Ala Cys Val Trp Leu Glu Asp Tyr Leu Lys Lys Trp
        35                  40                  45
Glu Arg Thr Leu Val Leu Val Ser His Ser Gln Asp Phe Leu Asn Gly
    50                  55                  60
Val Cys Thr Asn Met Ile Asp Met Arg Met Lys Gln Leu Leu Tyr Tyr
65                  70                  75                  80
Gly Gly Asn Tyr Asp Ser Tyr His Lys Thr Arg Ser Glu Gln Glu Thr
                85                  90                  95
Asn Gln Met Lys Ala Tyr His Lys Gln Gln Glu Glu Ile Ala His Ile
            100                 105                 110
Lys Lys Phe Ile Ala Ser Ala Gly Thr Tyr Ala Asn Leu Val Arg Gln
        115                 120                 125
Ala Lys Ser Arg Gln Lys Ile Leu Asp Lys Met Glu Ala Glu Gly Phe
    130                 135                 140
Ile Gln Pro Val Ile Pro Asp Arg Val Phe Ser Phe Arg Phe Ala Asp
145                 150                 155                 160
Val Glu Lys Leu Pro Pro Pro Val Leu Ser Phe Asp Asp Val Ser Phe
                165                 170                 175
Ser Tyr Ser Gly Ser Trp Asp Asp Thr Leu Tyr Glu His Leu Asp Phe
            180                 185                 190
Gly Val Asp Met Asp Ser Arg Thr Ala Leu Val Gly Xaa Asn Gly Val
        195                 200                 205
Gly Lys Ser Thr Leu Leu Arg Leu Met Thr Gly Lys Leu Gln Pro Ile
    210                 215                 220
Ala Gly Arg Val Ser Arg His Thr His Leu Lys Leu Gly Met Tyr Ser
225                 230                 235                 240
Gln His Ser Ala Glu Gln Leu Asp Leu Thr Lys Ser Ala Leu Asp Phe
                245                 250                 255
Val Arg Asp Lys Phe Pro Glu Lys Ser Gln Asp Tyr Gln Tyr Trp Arg
            260                 265                 270
Gln Gln Leu Gly Arg Tyr Gly Leu Ser Gly Glu Ser Gln Thr Ala Leu
        275                 280                 285
Met Gly Thr Leu Ser Glu Gly Gln Lys Ser Arg Ile Val Phe Ala Leu
    290                 295                 300
Leu Ala Ile Glu Cys Pro Asn Met Ile Leu Leu Asp Glu Pro Thr Asn
305                 310                 315                 320
Gly Leu Asp Ile Pro Thr Ile Asp Ser Leu Ala Asp Ala Ile Asn Ala
                325                 330                 335
Phe Ser Gly Gly Val Val Val Val Ser His Asp Phe Arg Leu Leu Asp
            340                 345                 350
Lys Ile Ala Lys Asp Ile Met Val Cys Glu Asn Lys Thr Met Ser Ser
        355                 360                 365
```

Pro Arg Gly Trp Lys Val Pro Thr Val Val
370 375

<210> 22724
<211> 350
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (163)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22724
Arg His Gly Leu Val Leu Ala His His Asp Val Leu Gly Asp Leu Val
1 5 10 15
Glu Glu Thr Glu Val Val Gly His Asp Asp Asp Thr Thr Ala Glu Gly
20 25 30
Val Asp Gly Ile Arg Gln Thr Val Asp Gly Gly Asn Ile Glu Thr Val
35 40 45
Gly Arg Phe Val Gln Gln Asn His Val Arg Ala Leu Asp Gly Gln Gln
50 55 60
Ser Glu Asp Asp Thr Thr Leu Leu Pro Phe Gly Gln Ser Thr His Glu
65 70 75 80
Gly Ser Leu Gly Phe Thr Ala Gln Thr Ile Ala Thr Glu Leu Leu Thr
85 90 95
Pro Val Leu Val Val Leu Thr Leu Leu Gly Glu Leu Val Thr Asn Lys
100 105 110
Val Glu Cys Arg Leu Gly Gln Val Glu Leu Phe Ser Arg Val Leu Thr
115 120 125
Val His Thr Glu Leu Gln Val Ser Val Thr Ala Asp Thr Thr Gly Asn
130 135 140
Gly Leu Glu Phe Ser Gly His Gln Thr Glu Glu Ser Arg Leu Ala Asp
145 150 155 160
Thr Ile Xaa Ala Asp Gln Gly Ser Ser Arg Val His Val Asn Thr Lys
165 170 175
Val Lys Val Leu Val Gln Gly Val Val Pro Ala Ala Arg Val Arg Glu
180 185 190
Arg Asn Ile Ile Glu Gly Gln Asp Gly Arg Arg Glu Leu Leu Asp Ile
195 200 205
Ser Glu Thr Glu Gly Glu Asp Ser Val Gly Asp Asn Arg Leu Asn Glu
210 215 220
Ala Phe Ser Leu His Leu Val Gln Asn Leu Leu Ala Arg Leu Ser Leu
225 230 235 240
Ser Asp Gln Val Gly Val Gly Thr Gly Arg Ser Asn Glu Leu Leu Asp
245 250 255
Val Ser Asp Phe Leu Leu Leu Leu Val Val Gly Leu His Leu Val Gly
260 265 270
Leu Leu Phe Ala Ala Ser Leu Val Val Arg Ile Val Val Thr Thr Val
275 280 285
Val Glu Glu Leu Leu His Ala His Val Asp His Val Gly Ala Asp Thr
290 295 300
Ile Gln Glu Ile Leu Arg Val Arg Asn Lys His Gln Ser Ala Leu Pro
305 310 315 320
Leu Leu Gln Val Ile Phe Gln Pro His Thr Gly Leu Glu Ile Gln Val
325 330 335

```
Ser Gly Gly Val Val Gln Gln Gln Lys Arg Arg Leu Asp Ala
            340                 345                 350

<210> 22725
<211> 108
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (55),(96),(100)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22725
Glu Pro Ile Leu Pro Ile Pro His Asp Pro Thr Val Pro Gly Met Asn
1               5                  10                  15
Arg Arg Asn Ser Trp Val Gln Arg Arg Arg Thr Val Asp Gln Trp Lys
            20                  25                  30
Gln Arg Phe Ser Gln Leu Arg Glu Glu Ser Thr Arg Tyr Val Tyr Arg
        35                  40                  45
Pro Asp Thr Gly Cys Cys Xaa Tyr Gly Tyr Pro Phe Thr Tyr Asn Gly
    50                  55                  60
Ala Arg Glu Ile Leu Gly Phe Val Val Arg Gly Thr Pro Gly Met Phe
65                  70                  75                  80
Pro Trp Asn Asn Ala Leu Gly Gln Leu Val Trp Arg His Gly Ile Xaa
                85                  90                  95
Pro Lys Phe Xaa Cys Tyr Ala Pro Gln Pro Glu Ser
            100                 105

<210> 22726
<211> 152
<212> PRT
<213> A.fumigatus

<400> 22726
Cys Val Cys Ala Ile Ala Tyr Gly His Pro Leu Val Leu Ala Asp Arg
1               5                  10                  15
Lys Ile Trp His Asn Pro Val His Glu Arg Asp Glu Ser Asn Glu Ser
            20                  25                  30
Glu Thr Ala Lys Thr Cys Phe Lys Phe Leu Asp Leu Thr Ser Arg Ser
        35                  40                  45
Phe Ser Ala Val Ile Lys Glu Leu His Pro Glu Leu Val Leu Pro Met
    50                  55                  60
Cys Ile Phe Tyr Leu Thr Leu Arg Gly Leu Asp Thr Ile Glu Asp Asp
65                  70                  75                  80
Thr Leu Ile Pro Leu Lys Thr Lys Gly Pro Pro Leu Arg Gly Phe Lys
                85                  90                  95
Asp Leu Leu Glu Gln Glu Cys Trp Asn Phe Thr Gly Asn Pro Pro Gly
            100                 105                 110
Arg Lys Arg Pro Val Asn Cys Trp Phe Asn Phe Pro Asn Val His Asn
        115                 120                 125
Pro Ser Gln Lys Asn Gly Thr Leu Ala Ser Arg Pro Val Phe Lys Asp
    130                 135                 140
Phe Pro Gly Lys Lys Gly Pro Met
145                 150
```

<210> 22727
<211> 75
<212> PRT
<213> A.fumigatus

<400> 22727
Phe Phe Arg Ile Ala Glu His Gly Pro Trp Arg Lys Ser Asp Thr Val
1 5 10 15
Ser Leu Gly Ile Ala Tyr Asp Asn Phe Ala Leu Glu Asp Ala Ala Glu
20 25 30
Ile Glu Gln Ile Thr Ser Leu Ala Leu Tyr Glu Ala Ser Ser Ile Glu
35 40 45
Ile Arg Arg Ala Asp Phe Ile Ser Gly Arg Lys Thr Phe Leu His Ser
50 55 60
Gln Tyr Thr Thr Leu Ala Val Leu Gly Val Val
65 70 75

<210> 22728
<211> 133
<212> PRT
<213> A.fumigatus

<400> 22728
Thr Asp Ala Asn Ser Pro Glu Leu Val Asn Gln Tyr Asn Phe Leu Asn
1 5 10 15
Thr Ser Ile Pro Ile Val Phe Ser His Ala Ser Tyr Leu Thr Val Lys
20 25 30
Asp Ala Glu Leu Leu Arg Ser Thr Asn Gln Tyr Ile Ser Ile Thr Gly
35 40 45
Glu Ser Glu Arg His Tyr Gly His Asp His Pro Ser Ser Pro Tyr Ile
50 55 60
Met Asp Gln Ser Ser Leu Gly Ile Asp Thr His Phe Thr Tyr Ser Ala
65 70 75 80
Asp Ile Val Gly Gln Ala Arg Met Trp Leu Gln Glu Val Arg Leu Arg
85 90 95
Leu Tyr Ala Gln Val Leu Asp Cys Trp Asp Ile Pro Pro Asn Asn Pro
100 105 110
Met Ser Val Glu His Ala Ser Tyr Trp Gln Ser His Pro Ala Val Gln
115 120 125
Gly Pro Arg Leu Ser
130

<210> 22729
<211> 99
<212> PRT
<213> A.fumigatus

<400> 22729
Thr Val Ile Asn Asp Gly Gln Ala Leu Asp Gln Leu Ser Asp Ser Ile
1 5 10 15
Arg Ile Pro Leu His Arg Arg Thr Glu Glu Gln Arg Ile Ala Glu Gln
20 25 30
Ala Phe Leu Asn Asp Glu Lys His Ser Gly Leu Lys Val Leu Glu Ser
35 40 45
Thr Met Phe Lys Arg Thr Leu Ile Cys Ile Asp Phe Ile Thr His Leu
50 55 60

```
Leu Arg Leu Leu Leu Phe Tyr Gln Met Gln Arg Ala Ile Ile Ala Arg
65                  70                  75                  80
Phe Ser Arg Glu Asn Arg Leu Phe Asp Leu Ile Thr Ser Ile Tyr His
                85                  90                  95
Gly Ser Ile
```

<210> 22730
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22730

```
Ser Ile Cys Gly Leu Ile Leu Val Ala Thr Asp Ile Leu Asn Asn Trp
1               5                   10                  15
Pro Leu Leu Ser Gln Pro Gln Tyr Ser Val Phe Trp Asn Met Ala Gly
            20                  25                  30
Arg Glu Leu Leu Tyr Thr Val Ile Glu Gln Thr Cys Ile Val Leu Ile
        35                  40                  45
Tyr Met Ser Tyr Cys Ile Val Tyr Leu Lys Gly Ile Ile Cys Ser Pro
    50                  55                  60
Cys
65
```

<210> 22731
<211> 60
<212> PRT
<213> A.fumigatus

<400> 22731

```
Gly Pro Val Phe Val Ala Thr Asn Cys Ile Ala Thr Met Gly Gly Gly
1               5                   10                  15
Ser Lys Val Ala Ile Val Gly Ala Gly Phe Ala Gly Leu Arg Cys Ala
            20                  25                  30
Asp Ile Leu Val Gln Asn Gly Ala Gln Val Thr Ile Phe Glu Ala Arg
        35                  40                  45
Asp Arg Leu Gly Gly Arg Val Arg Ser Gln Ala Arg
    50                  55                  60
```

<210> 22732
<211> 145
<212> PRT
<213> A.fumigatus

<400> 22732

```
Phe Val Ala Arg Gly Pro Asn Trp Ile His Gly Thr Glu Lys Asn Pro
1               5                   10                  15
Ile Thr Gly Val Ala Glu Val Thr Gly Thr Thr Ile Glu Asp Phe Glu
            20                  25                  30
Gly Glu Gln Ile Ile Phe Ser Arg Ala Gly Lys Leu Val Asp Glu Ala
        35                  40                  45
Thr Ser Ala Arg Ile Ser Glu Phe Val Trp Ser Thr Ile Asp Glu Ala
    50                  55                  60
Phe Glu Tyr Ser Asn Ala Leu Lys Asp Ser Ile Pro Pro Asp Gln Ser
65                  70                  75                  80
Leu Leu Asp Phe Phe Lys Glu Arg Val Ser Lys Thr Gly Leu Asn Pro
```

```
                85                  90                  95
Glu Glu Lys Glu Leu Cys Ile Glu Thr Cys Lys Leu Trp Gly Ala Tyr
            100                 105                 110
Val Gly Asp Ser Ile Glu Arg Gln Ser Leu Lys Phe Phe Cys Leu Glu
        115                 120                 125
Glu Cys Ile Asp Gly Ser Thr Cys His Ile Phe Ser Met Ala Ala Ile
    130                 135                 140
Cys
145
```

<210> 22733
<211> 184
<212> PRT
<213> A.fumigatus

<400> 22733

```
Arg Thr Arg Ile Phe Gln Leu Arg Arg Cys Asn Met Glu Pro Leu Asp
1               5                   10                  15
Ala His Ser Ser Arg Ser Pro Asn Ile Val Met Ser Leu Ile Arg His
            20                  25                  30
His Leu Leu Gly Arg Gln Asp Val Ser Thr Val Glu Ser Ser Arg Ser
        35                  40                  45
Tyr Phe Val His Gln Gln Leu Arg Ser Gln Leu Ser His Asp Val Trp
    50                  55                  60
Trp Ile Ala Leu Ala Val Leu Phe Ile Thr Ile Ala Glu Ser Pro His
65                  70                  75                  80
Tyr Ser Asp Asn Pro Ile Ala Tyr Ser Thr Phe Asn Ile Ile Phe Glu
                85                  90                  95
Val Val Ser Ala Tyr Gly Cys Val Gly Ile Ser Val Gly Phe Pro Gly
            100                 105                 110
Arg Asn Tyr Ser Phe Cys Gly Ser Trp His Thr Ile Ser Lys Leu Ile
        115                 120                 125
Leu Ala Ala Val Thr Leu Arg Gly Arg His Arg Gly Leu Pro Val Ala
    130                 135                 140
Ile Asp Gln Ala Val Met Leu Pro Asn Glu Ser Leu Ala Trp Ala Glu
145                 150                 155                 160
Glu Glu Asp Ala Val Leu Arg Arg Glu Gln Thr Arg Thr Tyr Gly Ser
                165                 170                 175
Asp Lys Met Pro Val Gly Thr Val
            180
```

<210> 22734
<211> 89
<212> PRT
<213> A.fumigatus

<400> 22734

```
Arg Gly Ala Gly Ala Ser Asp Glu Asp Ser Arg Glu Glu Met Leu Thr
1               5                   10                  15
His Ser Val Val Asp Leu Thr Asp Asp Lys Ile Leu Val Gln Met Gly
            20                  25                  30
Ser Leu Arg Glu Gly Lys Thr Pro Glu Glu Lys Asp Gln Tyr Ile Ala
        35                  40                  45
Gly Leu Lys Gln Ile Ile Asn Asp Met Arg Arg Asp Lys Val Lys Asp
    50                  55                  60
Phe Asn Thr Val Ala Thr Glu Ile Ala Ala Tyr Arg Arg Arg Phe Leu
```

65 70 75 80
Gln Asp Pro Ser Arg Val Leu Pro Leu
85

<210> 22735
<211> 234
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22735
Trp Xaa Pro Ala Cys Pro Arg Lys Arg Lys Leu Leu Ala Ala Phe Val
1 5 10 15
Pro Ser Asp Glu Leu Ser Lys Glu Val Glu Glu Tyr Ile Arg Asn His
20 25 30
Pro Val Thr Leu Ala Leu Arg Gln Asn Pro Ala Tyr Thr Glu Ser Arg
35 40 45
Pro His Met Lys Ile Pro Gln Glu Leu Arg Ala Arg His Leu Thr Ala
50 55 60
Gly Ile Leu Ala Thr Pro Gly Gly Ile Val Val Pro Pro Tyr Val Phe
65 70 75 80
Cys Glu Glu Gly Gly Lys Ser Leu Thr Ala Ile Phe Tyr Leu Gly Ser
85 90 95
Asp Val Ser Gly His Pro Gly Ile Val His Gly Gly Leu Leu Ala Thr
100 105 110
Leu Leu Asp Glu Ser Met Ala Arg Cys Cys Phe Pro Ala Leu Pro Asn
115 120 125
Lys Val Gly Val Thr Ala Asn Leu Asn Ile Asp Tyr Arg Arg Pro Ala
130 135 140
Met Ala Asn Asn Tyr Ala Val Leu Lys Ala Lys Thr Val Lys Val Glu
145 150 155 160
Gly Arg Lys Ala Trp Val Glu Ala His Ile Glu Thr Leu Pro Glu Asp
165 170 175
Gly Lys Glu Pro Val Ile Leu Val Glu Ala Lys Ala Leu Phe Val Glu
180 185 190
Pro Lys Gln Ala Ala Val Ser Pro Phe Pro Gly Ala Val Gly Ile Arg
195 200 205
Asn Asn Val Leu Thr Met Ile Ser Gly His Gly Glu Ser Val Gln Asn
210 215 220
Tyr Gln Leu Val Cys Ser Gly Thr Ser Gly
225 230

<210> 22736
<211> 267
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22736
Thr Pro Thr Xaa Cys Gly Ala Val Cys Thr Leu Leu Glu Ser Ile Val
1 5 10 15
Cys Gly Arg Asn Arg Leu Glu Asn Gly Ser Met Glu Ala Trp Ala Arg
20 25 30
Ala Tyr Lys Val His Ala Ala Gly Ile Arg Ser Val Lys Met Thr Gln
35 40 45
Asn Gly Ile Arg Gln Glu Gly Ile Ser Leu Leu Leu Lys Glu Gly Leu
50 55 60
Arg His Ala Ser Ala Leu Glu Val Leu Asp Leu Gln Asp Asn Thr Phe
65 70 75 80
Thr Ile Met Gly Ser Thr Ala Leu Ala Gly Val Val Ala Gly Trp Pro
85 90 95
Ser Leu Arg Glu Leu Gly Val Gly Asp Cys Leu Leu Ser Ala Arg Gly
100 105 110
Gly Val Lys Val Ala Gln Ala Leu Ala Glu Gly Lys Asn Gln Asn Ile
115 120 125
Gln Thr Leu Arg Leu Gln Tyr Asn Glu Ile Thr Ala Glu Gly Val Lys
130 135 140
Leu Phe Leu His Ala Thr Lys Thr Ala Leu Pro Ser Leu Arg Arg Ile
145 150 155 160
Glu Leu Asn Gly Asn Lys Phe Leu Glu Glu Asp Pro Asn Val Thr Glu
165 170 175
Leu Gln Glu Val Leu Glu Ala Arg Lys Glu Glu His Gly Thr Asp Asp
180 185 190
Asp Pro Asp Asp Met Trp Gly Val Asp Glu Leu Asp Glu Leu Glu Glu
195 200 205
Glu Ser Glu Glu Glu Glu Glu Ala Glu Glu Glu Glu Glu Glu Glu Glu
210 215 220
Gln Glu Glu Glu Glu Arg Lys Ala Asp Lys Phe Leu Lys Asp Asn Val
225 230 235 240
Lys Ala Glu Asp Glu Lys Val Ala Gln Arg Gln Asp Lys Asp Val Asp
245 250 255
Ala Leu Ala Glu Ala Leu Gly Lys Thr Ala Leu
260 265

<210> 22737
<211> 227
<212> PRT
<213> A.fumigatus

<400> 22737
Ile Ala Pro Leu Ala Leu Lys Gly Glu Ser Leu Thr Gln Trp Arg Asn
1 5 10 15
Ala Val Val Gly Ala Pro Ser Pro Ile Thr His Lys Tyr Asn Asn Asp
20 25 30
Leu Arg Leu Ser Gly Ile Asp Phe Ser Asp Gln Glu Ala Leu Thr Glu
35 40 45
Arg Leu Ala Ala Val Met Asp Tyr Asp Lys His Cys Asn Leu Gln Met
50 55 60
Val Leu Tyr Glu Asp Gly Arg Glu Glu Ile Arg Lys Pro Gly Arg Lys
65 70 75 80
Ile Ile Gly Glu Met Lys Lys Asp Ala Ile Met Ala Arg Leu His Ala
85 90 95
Trp Thr Pro Glu Leu Arg Ser Gly Ser Phe Ser Ala His Asp Leu Val
100 105 110

```
Glu Pro Arg Thr Leu Arg Ile Met Cys Asp Ala Met Ser Ala Leu Ala
        115                 120                 125
Lys His Leu Ala Gln Asn Leu Asp Thr Gly Ala Glu Gly Lys Thr Ser
    130                 135                 140
Asn Cys Val Ala Gly Gln Lys Lys Ile Phe Met Ser Leu Ser Arg Leu
145                 150                 155                 160
Met Val Asp Leu Gly Glu Ala Ile Val Arg Cys Asp Gly Val Glu Ala
                165                 170                 175
Phe Val Val Thr Ser Leu Phe Leu Phe Leu Thr Ser Glu Glu Ile His
            180                 185                 190
Ser Asn Leu Cys Glu Ser Asp Gln Ala Ala Ile His Ser Ile Leu Val
        195                 200                 205
Val Phe Leu Arg Asn Tyr Val Ala Thr Ile Leu Leu Val Glu Ala Thr
    210                 215                 220
Val Ser Ser
225
```

<210> 22738
<211> 190
<212> PRT
<213> A.fumigatus

<400> 22738

```
Gly Leu Glu Phe Tyr His Pro Thr Ser Tyr Ser Ile Ser Arg Tyr Ser
1               5                   10                  15
Asn Ala Leu Thr Thr Thr Met Val Phe Gly Trp Arg Thr Pro Thr Tyr
            20                  25                  30
Glu Asp Ala Lys Met Lys Gln Leu Phe Asp Gly Phe Ser Glu Phe Ala
        35                  40                  45
Glu Ile Asn Gln Thr Gly Thr Ala Ala Leu Ile Asp Phe Phe Pro Trp
    50                  55                  60
Leu Arg Met Leu Pro Asp Phe Leu Leu Pro Thr Gln Lys Arg Ala Lys
65                  70                  75                  80
Glu Leu His Glu Arg Glu Lys Ala Leu Tyr Leu Gly His Tyr Leu Arg
                85                  90                  95
Ala Lys Gln Asp Ile Arg Asp Gly Gln Ile Lys Pro Cys Phe Cys Val
            100                 105                 110
Gly Leu Ala Glu Ala Gln Lys Ser Asp Gly Phe Ser Asp Asp Gln Ala
        115                 120                 125
Ala Tyr Ile Ser Gly Thr Leu Leu Glu Ala Gly Ser Asp Thr Thr Ser
    130                 135                 140
Asn Thr Leu Tyr Ala Phe Val Gln Ala Met Leu Leu Phe Pro Asp Val
145                 150                 155                 160
Gln Arg Lys Leu Gln Glu Glu Ile Asp Arg Val Val Gly Pro Arg Met
                165                 170                 175
Pro Thr Met Asp Asp Glu Gln Asp Leu Gln Tyr Val Arg Ala
            180                 185                 190
```

<210> 22739
<211> 72
<212> PRT
<213> A.fumigatus

<400> 22739

```
Cys Thr Ala Ala Val Ser Lys Leu Lys Gly Leu Ile Ala Arg Lys Ala
1               5                   10                  15
```

```
Ser Glu Val Ser Gly Leu Lys Ala Gln Leu Cys Val Glu Ala Arg Lys
            20                  25                  30
Asp Lys Ser Lys Ser Val Ser Leu Lys Ser His Glu Tyr Leu Lys Ile
        35                  40                  45
Tyr Leu Asn Arg Lys Lys His Gln Pro Leu Met Ala Ser Gln Asp Leu
    50                  55                  60
Thr Lys Asp Leu Leu Glu Gly Lys
65                  70
```

<210> 22740
<211> 182
<212> PRT
<213> A.fumigatus

<400> 22740

```
Glu Pro Asp Ser Gln Thr Ser Pro Glu Phe Gly Tyr Ser Pro Gln Ser
1               5                   10                  15
Ser Ser Gln Ala Ser Gln Gln Ser Gly Tyr Lys Pro Gln Ser Ser Ser
            20                  25                  30
Gln Ala Ser Ala Gln Leu Gly Tyr Gln Pro Gln Ser Ser Ser Leu Ala
        35                  40                  45
Thr Pro Gln Thr Gly Tyr Gln Pro Glu Ser Gln Ser Asn Leu Glu Ser
    50                  55                  60
Gly Tyr Asn Pro Gln Ser Glu Ser Gln Phe Ile Pro Gln Ser Gly Tyr
65                  70                  75                  80
Ile Pro Gln Ser Ala Ser Gln Ser Pro Pro Glu Phe Gly Tyr Ser Pro
                85                  90                  95
Gln Ser Ser Ser Ser Gln Gly Thr Ser Gln Thr Gly Tyr Gln Pro Glu
            100                 105                 110
Ser Gln Phe Asn Gln Asp Ser Gly Tyr Ser Pro Gln Ser Ala Ser Gln
        115                 120                 125
Lys Ala Pro Glu Phe Gly Tyr Lys Pro Gln Ser Ser Gln Pro Ala Ala
    130                 135                 140
Gln Ser Gly Tyr Gln Pro Gln Ser Ser Ser Gln Ser Ser Gln Phe Ser
145                 150                 155                 160
Gln Ser Ala Pro His Ser Gly Tyr Gln Pro Gln Ser Ser Gln Ser Ala
                165                 170                 175
Ala Glu Ser Gly Tyr Lys
            180
```

<210> 22741
<211> 82
<212> PRT
<213> A.fumigatus

<400> 22741

```
Arg Ser Ser Leu Thr Ile Arg Leu Leu Val Phe Ser Ser Ser Phe Ser
1               5                   10                  15
Trp His Ser Thr Phe Gly Tyr Tyr Arg Gly Leu Val Ser Tyr Leu Phe
            20                  25                  30
Ser Ser Leu Leu Ile Phe Leu Pro Ile Thr Ile Leu Ser Arg Arg Leu
        35                  40                  45
Ser Ile Ile Ala Lys Ile Ile His Ser Leu Ser Phe Leu Gln Ser Val
    50                  55                  60
Ser Ile Ala Ser His Gly His Leu Arg Gln Cys Gly Cys Ser Arg Glu
65                  70                  75                  80
```

Ala Asp

<210> 22742
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (46),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22742
Ile Ile Leu Phe His Leu Arg Tyr Met Pro Asn Val Ala Gln Ile Glu
1 5 10 15
Lys Asn Pro Leu Met Asn Leu Ile Cys Thr Val Ser Leu Ser Gly Ser
20 25 30
Lys Phe Gly Thr Gly Leu Ser Asn Leu Leu Thr Cys Asp Xaa Ala Lys
35 40 45
Arg Thr Asn Met Thr Val Ala Pro Xaa Thr Arg Trp Leu His Ile Asn
50 55 60
Gly Gly Tyr Gln Leu Thr Thr Thr Cys Gly Thr Gly Leu
65 70 75

<210> 22743
<211> 115
<212> PRT
<213> A.fumigatus

<400> 22743
Leu Asp Leu Gln Arg Pro Tyr Gln Cys Leu Phe Met Ala Ala Cys Ala
1 5 10 15
His Val Trp His Tyr Lys Cys Ile Ser Arg Leu Ile His Thr Pro Glu
20 25 30
Tyr Pro Met Phe Gln Cys Pro Asn Cys Arg Ala Tyr Thr Asp Leu Ser
35 40 45
Ala Glu Val Asp Asp Ser Asn Asp Ala Asn Asp Val Asp Thr Ser Lys
50 55 60
Glu Asn Asp Asp Ser Gln Glu Pro Ala Gln Thr Ser Ala Ala Glu Thr
65 70 75 80
Ser Asn Gly Ile Gln Glu Pro Ser Ala Glu Ser Asp Thr Ala Ala Ala
85 90 95
Arg Thr Gln Glu Arg Thr Glu Ser Ser Arg Gln Thr Arg Asp Val Pro
100 105 110
Ala Val Val
115

<210> 22744
<211> 75
<212> PRT
<213> A.fumigatus

<400> 22744
Asn Leu Ile Leu Pro Glu Asn Glu Asn Val Trp Glu Arg Lys Val Ser
1 5 10 15

```
His His Thr Thr Ala Thr Leu Pro Cys Gln Arg Arg Asn Gly Tyr Asp
            20                  25                  30
Thr Ser Phe Leu Gln Ser Pro Tyr Thr Ile Asp Tyr Pro Val Phe Ser
        35                  40                  45
Ser His Ala Ser Pro Glu Arg Gly Asp Ser Leu Cys Leu Gln Thr Ser
    50                  55                  60
Pro Glu Glu Asp Ser Ile Gly Tyr Asp Arg Thr
65                  70                  75
```

<210> 22745
<211> 134
<212> PRT
<213> A.fumigatus

<400> 22745

```
Asn Ala Gly Asn Leu Ala Asn Gly Glu Thr Arg Val Gly Phe Leu Thr
1               5                   10                  15
Met Ile Val Pro Leu Tyr Gln Ala Glu Ile Cys His Pro Lys Ile Arg
            20                  25                  30
Gly Arg Val Thr Ala Leu Gln Gln Phe Met Leu Gly Val Gly Ala Leu
        35                  40                  45
Cys Ala Ala Trp Ile Ser Tyr Gly Thr Tyr Val Gly Phe Asp Pro Thr
    50                  55                  60
Asn Asn Ala Gln Trp Gln Val Pro Leu Gly Leu Gln Ile Ala Pro Ala
65                  70                  75                  80
Val Ile Leu Gly Leu Leu Ile Met Phe Phe Pro Glu Val Ile Arg Trp
                85                  90                  95
Asn Ile Phe Leu Thr Glu Cys Asp Ala Asp Thr Arg Thr Val Thr Ser
            100                 105                 110
Leu Ala His Arg Pro Trp Leu Gln Arg Lys Gly Leu Gly Asp Pro Cys
        115                 120                 125
Lys Thr Pro Cys Ser Trp
    130
```

<210> 22746
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22746

```
Arg Leu Cys Ser Gly Leu Val Val Ser Leu Phe Thr Ala Gly Ala Phe
1               5                   10                  15
Phe Gly Ala Gly Phe Ala Gly Pro Ala Gly Asp Tyr Leu Gly Arg Arg
            20                  25                  30
Trp Thr Ile Ala Ile Gly Cys Leu Val Phe Cys Leu Gly Gly Gly Leu
        35                  40                  45
Gln Thr Gly Ala Gln Asn Ile Ser Tyr Leu Tyr Ser Gly Arg Phe Phe
    50                  55                  60
Ala Gly Leu Gly
65
```

<210> 22747
<211> 90
<212> PRT
<213> A.fumigatus

<400> 22747
Asp Gly Ile Phe Ser Leu Gln Asn Ala Met Leu Thr Gln Glu Gln Ser
1 5 10 15
Pro Arg Trp Leu Ile Asp His Gly Tyr Asn Glu Lys Gly Leu Ala Thr
20 25 30
Leu Ala Lys Leu His Ala His Gly Asn Glu Asp Asp Ala Trp Val Arg
35 40 45
Ala Glu Tyr Asn Gln Ile Gln Glu Ser Ile Val Tyr Glu His Glu His
50 55 60
Glu Ala Lys Ser Tyr Ser Glu Leu Phe Thr Asn Arg Ser Ser Phe Arg
65 70 75 80
Leu Leu Leu Pro Arg Pro Val Pro Tyr Leu
85 90

<210> 22748
<211> 296
<212> PRT
<213> A.fumigatus

<400> 22748
Ser Pro Arg Ala Asp Cys Leu Ser Thr Ser Pro Gly Ala Arg Ala Arg
1 5 10 15
Ile Ser Pro Asn Phe Pro Pro Ile Ala Leu Tyr Pro Pro Lys Tyr Pro
20 25 30
Gln Ser Ala Gly Val Arg Arg Ser Arg Ser Gly Asn Arg Gly Tyr Ser
35 40 45
Phe Arg Arg Thr Ile Phe Ala Lys Asn Ile Gln Thr Gln Asp Val Thr
50 55 60
Ser Pro Gly Ala Phe Glu Leu Ser Pro Gly Val Ser Pro Gln Pro Leu
65 70 75 80
Pro Glu Thr Ser Thr Val Asn Gly Gln Pro Gln Ala Thr Gly Asp Glu
85 90 95
Lys His Ser Asp Val Val Arg Pro Thr Val Thr Ser Glu Ser Ser Pro
100 105 110
Lys Asp Asp Gly Ser Thr Thr Tyr Tyr Ser Gly Pro Lys Val Gly Arg
115 120 125
His Leu Ser Met Ser Val Ser Tyr Glu Arg Trp Leu Lys Arg Lys Ala
130 135 140
Ala Cys Thr Ile Ile Lys Val Arg Leu Glu Asn Ala Val Glu Thr Val
145 150 155 160
Arg Lys Ala Ile Leu Gln Ile Lys Asp Ile Pro Pro Thr Lys Asp Gly
165 170 175
Arg His Ile Asp Leu Asp Val Thr Arg Thr Glu Asp Leu Ile Asp Glu
180 185 190
Arg Thr Gly Lys Pro Tyr Val Gly Asn Trp Ile Arg Ser Ser Arg Tyr
195 200 205
Ser Phe Trp Ser Phe Phe Pro Arg Gln Leu Phe Ala Gln Phe Thr Lys
210 215 220
Leu Ala Asn Phe Tyr Phe Leu Val Val Ala Ile Leu Gln Met Ile Pro
225 230 235 240
Gly Leu Ser Thr Thr Gly Thr Phe Thr Thr Leu Ile Pro Leu Leu Ile
245 250 255
Phe Val Gly Ile Ser Met Gly Lys Glu Gly Phe Asp Asp Trp Arg Arg
260 265 270
Tyr Cys Leu Asp Lys Glu Glu Asn Asn Arg Leu Ala Ser Val Leu Arg
275 280 285

```
Pro Gly Ala Ser Leu Thr Val Ser
    290                 295

<210> 22749
<211> 137
<212> PRT
<213> A.fumigatus

<400> 22749
Arg Ala Leu Asp Ala Ala Phe Pro Arg Asp Pro Ala Ile Pro Val Asn
1               5                  10                  15
His Leu Arg Arg Phe Ala Lys His Ser Gln Leu Pro Glu Ser Leu Arg
            20                  25                  30
Ser Ala Ile Ser His Asn Asp Ser Ala Pro Gln Thr Ile Phe Val Leu
        35                  40                  45
Ile Ser Pro Pro Leu Pro Glu Ala Asp Ala Leu Gln Lys Val Leu Ala
    50                  55                  60
Pro Phe Ala Pro Ala Ser Ser Thr Ser Ala Asp Asp Gln Ala Glu Ala
65                  70                  75                  80
Ala Pro Ala Ile Ser Leu His Thr Ile Lys Ile Pro Thr Gln Pro Pro
                85                  90                  95
Leu Asn Ala Lys Gln Ala Glu Lys Trp Thr Ser Thr Tyr Trp Pro Val
            100                 105                 110
Val Tyr Asn Pro Ala Ala Pro Arg Ala Thr Ile Ala Pro Pro Pro Gln
        115                 120                 125
Ile Leu Asn Arg Ala Leu Glu Ser Ile
    130                 135

<210> 22750
<211> 165
<212> PRT
<213> A.fumigatus

<400> 22750
Trp Lys Leu Arg Phe Val Phe Ala Leu Phe Ala Ile Leu Leu Ser Phe
1               5                  10                  15
Pro Ala Ile Val Arg Ala Ile Ser Thr Val Pro Leu Tyr Arg Ser Lys
            20                  25                  30
Val Phe Arg Gln Leu Glu Lys Arg Leu Glu Tyr Ser Val Thr Ser Asp
        35                  40                  45
Lys Met Pro Val Pro Ser Ser Tyr Asp Glu Val Lys Ala His Leu Gln
    50                  55                  60
His Val Leu Asp Asp His Ser Thr Pro Leu Asp Ile Ser Leu Ile Asp
65                  70                  75                  80
Lys Leu Lys Leu Glu Leu Thr Glu Thr Thr Asp Arg Arg Val Pro Ser
                85                  90                  95
Thr Leu Leu Thr Leu Ile Ser Gln Leu Leu Pro Val Leu Gln Glu Asp
            100                 105                 110
Pro Thr Pro Ile Thr Thr Leu Gly Ile Lys Ala Thr Val Tyr Phe Ser
        115                 120                 125
Phe Thr Asp Ile Arg Ser Val Glu Pro Pro Ile Asp Phe Ile Ala Gly
    130                 135                 140
Phe Lys Ala Pro Ser Pro Pro Val Asn Leu Tyr Ser Pro Arg Gly Ser
145                 150                 155                 160
Lys Lys Pro Arg Cys
                165
```

<210> 22751
<211> 64
<212> PRT
<213> A.fumigatus

<400> 22751
Asn Thr Pro Leu Arg Tyr Leu Leu Ser His Ser Gly Leu Val Ser Met
1 5 10 15
Pro Ala Ile Leu Phe Val Ser Gln His Ile Cys Leu Ile Phe Thr Tyr
20 25 30
Asp Thr Ser Ser Gly Ala Ser Trp Asp Glu Met Val Thr Ala Tyr Gly
35 40 45
Glu Met Arg Ile Cys Cys Lys Asp Ser Thr Leu Pro Phe Leu Lys Pro
50 55 60

<210> 22752
<211> 62
<212> PRT
<213> A.fumigatus

<400> 22752
Leu Gln Ala His Gly His Glu Tyr Met Ala Asp Leu Asp Tyr Pro His
1 5 10 15
His Leu Met Arg Thr Cys Lys Ala Ser Ser Asn Ser Val Leu Thr Arg
20 25 30
Gln Gly Val Tyr Arg Leu Gln Trp Tyr Val Asn Met Leu Gly Leu Thr
35 40 45
Ala Ile Phe Gly Tyr Val Phe Ala Ala Phe Met Ala Met His
50 55 60

<210> 22753
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22753
Glu Ala Arg Ile Leu Lys Val Lys Lys Glu Ile Glu Glu Lys Phe Glu
1 5 10 15
Gln Glu Lys Trp His Lys Ile Ala Asp Ser Val Ala Ala Asp Gly Gly
20 25 30
Asn Lys Tyr Pro Ala Ser Ala Ile Gln Lys Lys Phe Lys Glu Leu Asn
35 40 45
Lys Arg Thr Gln Ala Ala Ala Ala Gly Glu Ala Glu Asp
50 55 60

<210> 22754
<211> 129
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (44),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22754
Lys Met Gln His Pro Asn Leu Thr Gln Glu Ser Gln Ser Thr Cys Ala
1 5 10 15
Pro Val Asn Gly Thr Pro Arg Lys Arg Gly Arg Lys Lys Ala Ala Asp
20 25 30
Gly Asp Ala Asp Ala Asp Ser Thr Glu Thr Pro Xaa Lys Lys Gly Lys
35 40 45
Thr Ser Pro Lys Lys Gly Leu Gly Xaa Ile Pro Ala Ser Pro Glu Ser
50 55 60
Ala Gly Leu Ala Asp Lys Met Val Leu Arg Met Arg Asp Glu Glu Gly
65 70 75 80
Arg Ser Trp Ser Glu Ile Thr Asn Val Trp Thr Arg Met Thr Gly Ile
85 90 95
Lys Val Glu Gly Ser Thr Leu Arg Lys Arg Tyr Thr Ala Met Lys Ala
100 105 110
Asn Phe Ile Ser Ile Ser Ala Glu Asp Val Ser Asp Arg Pro Val Ser
115 120 125
Ala

<210> 22755
<211> 76
<212> PRT
<213> A.fumigatus

<400> 22755
Glu Asp Cys Ala Pro Asn Ile Lys Arg Phe Phe Ser Gly Lys Arg Phe
1 5 10 15
Pro Phe Ala Thr Leu Ser Ser Met Asp Asp Gln Met Phe Phe Phe Gly
20 25 30
Pro Ser Leu Leu Asp Gly Arg Leu Leu Phe Pro Asp Ile Met Ser Lys
35 40 45
Ile Asp Pro Ala Gln Pro Val Leu Thr Ile Pro Lys Leu Ile Lys Val
50 55 60
Phe Ile Arg Ala Leu Thr Cys Leu Thr Arg Arg Ser
65 70 75

<210> 22756
<211> 78
<212> PRT
<213> A.fumigatus

<400> 22756
Phe Lys Met Thr Val Lys Ile Pro Trp Pro Ala Val Tyr Leu Ala Ile
1 5 10 15
Ala Ala Ser Val Tyr Met Arg Pro Gln Tyr Ala Ile Leu Asp Ser Leu
20 25 30
Thr Ala Thr Phe Val Val Leu Ser Leu Ala Val Thr Ser Phe Arg Ile
35 40 45
Ile Tyr Ala Phe Val Leu Tyr Pro Lys Phe Phe Thr Pro Ile Lys His
50 55 60
Ile Pro Thr Pro Ser Val Arg Thr Phe Ile Ala Arg Pro Glu
65 70 75

<210> 22757
<211> 241

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (103)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22757
Thr His Cys Ala Asp Pro Ser Thr Pro Val Val Lys Thr Cys Gln Ala
1 5 10 15
Lys Arg Pro Arg Tyr Gly Gln Val Leu Lys Asn Met Ile Arg Leu Ala
20 25 30
Ser Pro Ala Lys Pro Phe Lys Leu Thr Pro Lys Gly Thr Thr Gln Arg
35 40 45
His Ala Val Tyr Ala Asp Tyr Ala Glu Glu Ile Asp Ala Met Tyr Ala
50 55 60
Thr His Glu Lys Gln Leu Gly Pro Lys Leu Pro Ser Thr Ile Asp Ser
65 70 75 80
Glu Ser Val His Cys Tyr Val His Glu Val Ile Thr Ser Leu Thr Gly
85 90 95
Arg Ser Asp Ile Arg Pro Xaa Asp Asp Leu Phe Gly Leu Gly Leu Asp
100 105 110
Ser Leu Gln Ala Thr Gln Leu Ser Asn Ile Leu Arg Ser Ala Val Leu
115 120 125
Ser Tyr Asn Pro Ala Leu Ser Thr Asp Asn Ile Thr Val Gln Asn Ile
130 135 140
Tyr Thr Arg Pro Thr Thr Asp Lys Leu Ala Gly Leu Leu Leu Gly Val
145 150 155 160
Leu Gln Glu Lys Lys Glu Gln Ala Ala Ile Ala Pro Thr Glu Ser Arg
165 170 175
Ser Glu Arg Ile Ala Gly Leu Val Ser Lys Tyr Thr Ala Asp Leu Pro
180 185 190
Ala Arg Tyr Val Asn Ser Pro Thr Gln Leu Pro Arg Leu Ser Thr Val
195 200 205
Lys Thr Asn Gly Ile Tyr Arg Phe Ala Gly His Leu Tyr Pro Phe Arg
210 215 220
Pro Ile Lys Arg Ser Ser Arg Gly Lys Ser Ile Leu Phe Gln Ser Arg
225 230 235 240
Arg

<210> 22758
<211> 261
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (148)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22758
Phe Pro Ser Thr Gln Leu Ile Ser Gln Leu Asp Thr Ser Thr Pro Gln
1 5 10 15
Leu Asn Cys Leu Gly Ser Arg Leu Leu Lys Leu Thr Gly Ser Thr Gly

```
            20                  25                  30
Ser Leu Gly Thr Tyr Ile Leu Ser Gly Leu Leu Asn Asp Pro His Val
        35                  40                  45
Ala Lys Val Tyr Cys Phe Asn Arg Ala Ala Asp Ala Ala Thr Arg Gln
    50                  55                  60
Arg Gln Gly Phe Ala Glu Lys Gly Leu Asp Ala Ser Leu Leu Glu Asp
65                  70                  75                  80
Pro Ser Lys Val Glu Phe Leu His Val Ser Phe Gly Asp Lys His Phe
                85                  90                  95
Gly Leu Asp Asp Ser Met Tyr Ser Lys Leu Leu Asp Thr Val Asp Leu
            100                 105                 110
Ile Val His Asn Ala Trp Lys Val Asn Phe Asn His Pro Val Ser Ser
        115                 120                 125
Phe Glu Asp Pro His Ile Lys Gly Val Arg Glu Phe Val Asn Phe Ser
    130                 135                 140
Leu Glu Ala Xaa Tyr Asn Thr His Leu Ala Phe Val Ser Ser Val Ser
145                 150                 155                 160
Thr Ile Ala Gly Trp Thr Pro Ser Ser Asp Glu Ser Ala Val Pro Glu
                165                 170                 175
Leu Pro Met Asp Thr Val Asp Ala Val Leu Lys Gln Gly Tyr Gly Glu
            180                 185                 190
Ser Lys His Val Gly Glu Arg Ile Cys Leu Glu Ala Ser Arg Thr Ser
        195                 200                 205
Gly Val Pro Thr Ser Val Leu Arg Val Gly Gln Ile Ala Gly Pro Asp
    210                 215                 220
Ser Arg Leu Gly Leu Trp Asn Pro His Glu Trp Leu Pro Ser Val Val
225                 230                 235                 240
Lys Thr Ser Lys Ser Met Gly Ser Leu His His Lys Gly Arg Arg Thr
                245                 250                 255
Pro Ala Gly Leu Pro
            260
```

<210> 22759
<211> 145
<212> PRT
<213> A.fumigatus

<400> 22759

```
Arg Pro His Lys Val Leu Gln Val Leu Ala Asp Asn Val Leu Arg Arg
1               5                   10                  15
Gly Asp Asn Gly Leu Gln Val Tyr Val Met Cys Glu Ile Pro Ser Asn
            20                  25                  30
Val Ile Leu Ala Ala Glu Phe Ala Asp Cys Phe Asp Gly Phe Ser Ile
        35                  40                  45
Gly Ser Asn Asp Leu Thr Gln Leu Thr Leu Gly Val Asp Arg Asp Ser
    50                  55                  60
Ala Glu Leu Ala Asp Ile Phe Ser Glu Gln Asp Glu Ala Val Lys Trp
65                  70                  75                  80
Met Ile Ala Arg Val Ile Thr Val Ala Arg Gln Lys Gly Cys Lys Ile
                85                  90                  95
Gly Ile Cys Gly Gln Ala Pro Ser Asp His Pro Gln Phe Ala Gln Phe
            100                 105                 110
Leu Ser Asp Leu Gly Ile Asp Ser Ile Ser Val Ser Pro Asp Ser Phe
        115                 120                 125
Val Thr Val Lys Arg His Leu Ile Arg Ser Glu Arg Gly Val Pro Val
    130                 135                 140
```

Cys
145

<210> 22760
<211> 72
<212> PRT
<213> A.fumigatus

<400> 22760
Lys Ile Ser Ser Asp Phe Cys Ser Arg Pro His Pro Ser Phe Lys Arg
1 5 10 15
Leu Ser Phe Ile Met Gly Asp Val Ala Val Glu Ser Ser Ala Thr Asn
20 25 30
Val Thr Pro Ser Lys Ser Ala Pro Phe Asp Thr Ile Pro Asn Ile Asp
35 40 45
Ser Leu Glu Gly Thr Asp Ala Asp Gly Gly Asp Glu Tyr Ala Thr Leu
50 55 60
Lys Arg Leu Gln Arg His Leu Glu
65 70

<210> 22761
<211> 121
<212> PRT
<213> A.fumigatus

<400> 22761
Gly Leu Ile Tyr Ile Pro Glu Cys Met Arg Thr Lys Ile Ile Thr Lys
1 5 10 15
Tyr His Asn Asn Pro Met His Arg Tyr Met Gly Thr Glu Lys Thr Ala
20 25 30
Glu Ala Ile Ser Arg Asn Tyr Tyr Phe Leu Asn Met Arg Arg Lys Val
35 40 45
Gln Gly Tyr Ile His Gln Cys Glu Thr Tyr Ile Arg Asp Lys Pro Ala
50 55 60
Arg His Gln Pro Tyr Ser Lys Ile Gln Ser Pro Glu Ala Pro Lys Gln
65 70 75 80
Ser Trp Glu Trp Ile Thr Ile Asn Phe Val Gly Pro Leu Leu Glu Leu
85 90 95
Lys Gly Tyr Asn Tyr Leu Ile Thr Val Thr Asn Arg Leu Ile Leu His
100 105 110
Pro Gly Ala Gly Arg Tyr Arg Asp Ala
115 120

<210> 22762
<211> 212
<212> PRT
<213> A.fumigatus

<400> 22762
Asp Leu Ser Ala Gln Cys Pro Gly Leu His Ile Ser Phe Gln Val Gly
1 5 10 15
Lys Leu Thr Pro Gly Leu Phe Ser Val Gly Leu Leu Gln Leu Asn Cys
20 25 30
Leu Thr Ser Ala Leu Gly Ser Asp Gly Cys Ser Glu Leu Thr Asp Phe
35 40 45
Ala Cys His Cys Gln Lys Ser Gly Leu Val Glu Gln Val Val Pro Cys

```
    50                  55                  60
Val Lys Gln Ala Cys Asp Val Ala Asp Gln Gln Gly Thr Asn Met Lys
65                  70                  75                  80
Lys Thr His Ser Thr Leu Arg Leu Ile Leu Ser Asn Pro Arg Arg Val
                85                  90                  95
Ala Val Ser Lys Val Val Val Ser Leu Cys Ser Gly Val Gly His Pro
            100                 105                 110
Val Ser Val Pro Pro Val Asp Ala Ser Ala Pro Thr Ser Thr Ala Ala
        115                 120                 125
Ala Ser Phe Pro Thr Thr Ala Ser Ser Ser Asn Ser Thr Thr Val Ser
    130                 135                 140
Gly Leu Gly Gly Ser Ser Arg Thr Ser Phe Ala Ala Ser Pro Thr Ser
145                 150                 155                 160
Thr Leu Gly Ser Thr Thr Leu Ala Thr Val Asn Thr Ala Ser Pro Ser
                165                 170                 175
Pro Ser Phe Ser Ser Pro Ala Leu Ser Asn Gly Ala Ser Gly Ile Gln
            180                 185                 190
Ser Gly Val Ala Gln Val Ala Gly Ala Ala Ile Leu Leu Ala Ser Val
        195                 200                 205
Leu Phe Leu Val
    210

<210> 22763
<211> 83
<212> PRT
<213> A.fumigatus

<400> 22763
Arg Gln Leu Thr Gly Gln Gly Ala His Trp Asp Cys Leu Gly Asp Lys
1               5                   10                  15
Ile Glu Val Ala Thr Asn Pro Asn Pro Asp Lys Ser Pro Val Ala Tyr
            20                  25                  30
Val His Pro Asp Lys Tyr Ile Asn Tyr Lys Leu Asn Pro Asp Leu Glu
        35                  40                  45
Thr Ala His Arg Cys Ile Asp Met Leu Thr Lys Ala Gly Phe Asn Ala
    50                  55                  60
Ser Gly Asn Pro Thr Phe Asp Trp Ile His Asp Val Tyr Leu Ile Leu
65                  70                  75                  80
Ile His Met


<210> 22764
<211> 190
<212> PRT
<213> A.fumigatus

<400> 22764
Phe Pro Arg Arg Cys Pro Ser Ser Pro Pro Val Lys Thr Arg Gln Thr
1               5                   10                  15
Arg Arg Ala Leu Ser Ser Val Leu Ala Glu Trp Ser Ser Gly Leu Trp
            20                  25                  30
Thr Ser His Glu Phe Val Arg Val Trp Trp Met Pro Tyr Glu Lys Ser
        35                  40                  45
Ala Val Val Trp His Ala Asp Lys Thr Asp Leu Pro Leu Arg Lys Pro
    50                  55                  60
Pro Lys Thr Phe Tyr Gly Glu Trp Ile Gly Tyr His Ile Tyr His Asn
```

65 70 75 80
Leu Leu Ala Leu Ser Asn Tyr Phe Pro Arg Ile Leu Pro Trp Val Glu
85 90 95
Cys Phe Val Phe Gly Leu Gln Tyr Gly Phe Lys Ala Glu Lys Thr Val
100 105 110
Thr Glu Ala Val Glu Pro Ala Arg Glu Gly Leu Leu Met Asn Cys Leu
115 120 125
Tyr Ser Gln Phe Val Asn Glu Trp Ala Leu Pro Leu Ala Lys Gly Pro
130 135 140
Glu Ala Ile Thr Arg Leu Ser Ala Trp Leu His Gly Asp Met Glu Thr
145 150 155 160
Ala Arg Ile Pro Phe Ser Ala Asn Gly Leu Trp Val His Cys Pro Ile
165 170 175
Glu Val Arg Val Ala Asp Ser Thr Tyr Leu Gly Lys Pro Arg
180 185 190

<210> 22765
<211> 106
<212> PRT
<213> A.fumigatus

<400> 22765
Lys Val Gly Leu Gly Phe Val Gly Ala Pro Ile Ser Val Ala Ile Thr
1 5 10 15
Asp Trp Leu Met Pro Phe Phe Leu Phe Leu Tyr Val Tyr Phe Val Ala
20 25 30
Gly Ser Glu Cys Trp Asn Gly Leu Thr Asn Arg Ala Phe Arg Asn Trp
35 40 45
Gly Pro Met Ile Gln Leu Ala Leu Pro Gly Leu Val Met Val Glu Ala
50 55 60
Glu Cys Leu Ala Phe Glu Val Leu Thr Leu Ala Ser Ser Trp Leu Gly
65 70 75 80
Thr Thr Pro Leu Ala Ala Gln Ser Ile Leu Ser Thr Ile Ala Ser Ile
85 90 95
Thr Phe Gln Ile Pro Phe Pro Val Ser Ile
100 105

<210> 22766
<211> 66
<212> PRT
<213> A.fumigatus

<400> 22766
Gly Glu Glu Arg Arg Lys Asp Val Ala Lys Leu Ala Gly Leu Tyr Leu
1 5 10 15
Lys Val Val Ala Leu Gly Ala Pro Gly Tyr Ala Cys Phe Glu Ser Gly
20 25 30
Lys Arg Tyr Met Gln Ala Gln Gly Leu Phe Ser Ala Ser Leu Phe Val
35 40 45
Leu Leu Ile Cys Ala Pro Phe Asn Ala Phe Met Asn Trp Phe Leu Val
50 55 60
Trp Val
65

<210> 22767
<211> 104

<212> PRT
<213> A.fumigatus

<400> 22767
Asn Pro Ser Ser Ser Ser Pro Gly Val Met Lys Thr Leu Ser Ser Ala
1 5 10 15
Ala Arg Ser Thr Trp Phe Pro Arg Pro Ser Cys Thr Pro Ser Phe Ser
20 25 30
Lys Trp His Arg Gln Leu Arg Leu Met Phe Val Leu Thr Phe Gly Pro
35 40 45
Arg Phe Thr Lys Asp Glu Met Gln Arg Glu Leu Leu Glu Gln Met Tyr
50 55 60
Arg Asn Asn Glu Leu Asp Glu Leu Leu Lys Glu Ser Asp Tyr Thr Ile
65 70 75 80
Arg Arg Arg Lys Glu Cys Gln Gln Met Val Glu Ser Leu Ser Arg Ala
85 90 95
Ser Glu Ile Val Ser Gln Val Gln
100

<210> 22768
<211> 161
<212> PRT
<213> A.fumigatus

<400> 22768
Cys Gly Cys Cys Ser Pro Val Val Lys Ile Arg Ser Phe Ser Leu Met
1 5 10 15
Pro Ser Ile Ala Ser Thr Ala Ile Ala Pro His Phe Ser Ser Ser Leu
20 25 30
Arg Arg Arg Leu Asp Cys Pro Gln Phe Leu Leu Ser Arg Cys Trp Pro
35 40 45
Arg His Thr Leu Pro Arg Ser Thr Val Ala Pro Phe Ser Thr Ala Ala
50 55 60
Val Thr Met Gly Ser Ile Gln Arg Ile Thr Glu His Leu Glu Lys Pro
65 70 75 80
Glu Leu Asp Asp Arg Ser Tyr Arg Val Ile Arg Leu Ser Asn Lys Leu
85 90 95
Glu Ala Leu Leu Val His Asp Pro Glu Thr Asp Lys Ala Ser Ala Ser
100 105 110
Val Asn Val Asn Val Gly Asn Phe Ser Asp Ala Asp Asp Met Pro Gly
115 120 125
Met Ala His Ala Val Glu His Leu Leu Phe Met Gly Thr Lys Lys Val
130 135 140
Gly Cys Thr Tyr Thr Cys Arg Thr Ser Gly Phe Leu Leu Arg Lys Phe
145 150 155 160
Lys

<210> 22769
<211> 95
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (71)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22769
Phe Pro Lys Glu Asn Ala Tyr Asn Gln Tyr Leu Ala Ser His Ser Gly
1 5 10 15
Ser Ser Asn Ala Tyr Thr Ala Ala Thr Glu Thr Asn Tyr Phe Phe Glu
20 25 30
Val Ser Ala Thr Asp Asp Ser Gly Asp Gly Gln Pro Asn Gly Gln Ser
35 40 45
Leu Thr Asn Gly Thr Thr Asn Gly Lys Thr Asn Gly Thr Thr Asn Gly
50 55 60
Asp Tyr Ala Phe Ala Lys Xaa Asp Thr Ser Glu Thr Leu Val Pro Leu
65 70 75 80
Tyr Gly Ala Leu Asp Arg Phe Ala Gln Phe Phe Val Ser Pro Leu
85 90 95

<210> 22770
<211> 297
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (255)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22770
Leu Ser Thr Thr Asp Leu Arg Leu Tyr Tyr Ala Arg Asn Asp Glu Arg
1 5 10 15
Asn Glu Asp Gly Lys Asp Lys Gln Glu Glu Ser Pro Gly Asp Gly Thr
20 25 30
Asp Ser Lys Asp Ala Phe Gly Tyr Arg Lys Asn Arg Met Ala Val Asp
35 40 45
Gly Met Pro Val Thr Thr Leu Thr Glu Gln Gln Glu Ala Gln Gln Ala
50 55 60
Ser His Asn Thr Ala Tyr Ala Gln Phe Met Lys Pro Lys Phe Ala Arg
65 70 75 80
Ala Pro Ile Lys Glu Ala Gly Arg Val Ala Tyr Leu Gly Glu Ser Ser
85 90 95
Asn Leu Ser Leu Leu Val Gln Asp Arg His Gly Thr Thr Asp Val Val
100 105 110
His Tyr Pro Leu Pro Pro Asn Ile Arg Gly Ser Arg Ala Arg Leu Thr
115 120 125
Asp Leu Asp Asn Leu Glu Leu Asp Ile Leu His Gln Arg Gly Ala Phe
130 135 140
Leu Leu Pro Pro Lys Pro Leu Cys Asp Glu Leu Val Glu Ala Tyr Phe
145 150 155 160
Arg Trp Val Ala Pro Ile Val Pro Ile Val Asn Arg Ser Arg Phe Met
165 170 175
Arg Gln Tyr Arg Asp Pro Lys Asn Pro Pro Ser Leu Leu Leu Leu Gln
180 185 190
Ala Ile Leu Leu Ala Gly Ser Arg Val Cys Thr Asn Pro Gln Leu Met
195 200 205
Asp Ala Asn Gly Ser Thr Thr Leu Ala Ala Met Thr Phe Tyr Glu Arg
210 215 220
Ala Lys Ala Leu Tyr Asp Ala Asn Tyr Glu Asp Asp Arg Val Thr Ile

225 230 235 240
Val Gln Ala Leu Val Leu Leu Gly Trp Tyr Trp Glu Ser Pro Xaa Gly
245 250 255
Leu Phe Ile Cys Phe Val Arg Lys Ser Ala Cys Ser Asn Ser Tyr Arg
260 265 270
Pro Asp Glu Glu Arg Leu Leu Leu Asp Gln Ser Gly His Gly Arg Pro
275 280 285
His Arg Ala Pro Ala Cys Thr Gln Arg
290 295

<210> 22771
<211> 304
<212> PRT
<213> A.fumigatus

<400> 22771
Ile Leu Val Leu Leu Trp Ser Leu Ala Leu Leu Ala Val Ala Trp Pro
1 5 10 15
Ile Ala Ile Ala Ile Val Ser Met Phe Ile Gly Asn Ala Ser Ala Ala
20 25 30
Gly Gln Ala Ser Glu Pro Leu Cys Trp Arg Val Gly Phe Lys Trp Asp
35 40 45
Lys Asp Ala Leu Ala Cys Ser Arg Asn Tyr Val Thr Leu Ser Ile Ser
50 55 60
Pro Tyr Ala Asn Asp His Asn Pro Gly Ser Ala Ala Phe Ser Tyr Gly
65 70 75 80
Ala Glu Ala Val Leu Cys Val Leu Phe Val Cys Leu Ile Gln Ala Asn
85 90 95
Gln Thr Ile Ser Leu His Cys Leu Glu Leu Leu Val Asn Leu Ser Arg
100 105 110
Asp Glu Gly Ile Trp Arg Gln Ala Tyr Ser Glu Thr Gly Glu Ala Pro
115 120 125
Gly Thr Gln Leu Thr Val Asn Pro Phe Arg Ala Ala Val Ser Ser Trp
130 135 140
Glu Asn Ala Val Leu Phe Ile Ala Lys Thr Val Leu His Trp Ile Ile
145 150 155 160
Gly Gln Ser Leu Ile Pro Ser Val Ala Met Glu Glu Ser Lys Asp Thr
165 170 175
Asp Phe Ala Lys Asp Ile Glu Ser Trp Ala Ser Ile Pro Val Gln Asp
180 185 190
Leu Ser Ala His Val Gln Lys Leu Pro Phe Lys Arg Gly Phe Gln Phe
195 200 205
Asp Met Val Tyr Ser Arg Leu Ile Ile Tyr Ala Ile Leu Ala Val Leu
210 215 220
Val Ala Thr Phe Ala Thr Tyr Leu Ala Leu Arg Arg Arg Lys Gly Cys
225 230 235 240
Gln Pro Ala Ala Leu Gly His Leu Pro Thr Leu Val Asp Leu Ile Asp
245 250 255
Asp Trp Lys Thr Asp Gln Glu Gly Arg Met Trp Trp Gly Asp Lys Ala
260 265 270
Pro Glu Leu Lys Ala Gly Gln Val Arg His Ala Gly Thr Cys Trp Asp
275 280 285
Lys Met Leu Leu Gly Pro Ile Cys Thr Thr Ala Arg Tyr Ala Gly Gly
290 295 300

<210> 22772

<211> 249
<212> PRT
<213> A.fumigatus

<400> 22772
Asn Ser His Ser Arg Leu Ala Asp Lys Leu Thr Asn Ser Arg Arg Ile
1 5 10 15
Gly Val Thr Thr Arg Asp Arg Pro Ala Ala Ala Pro Gln Thr Gly Pro
20 25 30
Phe Asp Leu Gly Phe Arg Ala Ile Gly Asn Pro Thr Phe Ala Val Gly
35 40 45
Ile Thr Ala Ser Ala Thr Ile Phe Cys Ser Ser Ala Ala Thr Ser Ala
50 55 60
Phe Leu Pro Val Ile Ser Glu Met Arg Lys Pro Arg Asp Tyr Pro Lys
65 70 75 80
Ala Val Tyr Leu Ser Met Ser Phe Val Thr Thr Ser Tyr Leu Ala Phe
85 90 95
Ser Leu Val Ile Tyr Ala Trp Cys Gly Lys Trp Ile Ala Ser Pro Ser
100 105 110
Leu Gly Ser Ala Gly Glu Thr Val Lys Arg Val Ala Tyr Gly Ile Ala
115 120 125
Leu Pro Gly Leu Ile Val Ser Gly Ala Leu Tyr Val His Val Gly Ala
130 135 140
Lys Tyr Leu Phe Val Arg Ile Leu Arg His Ser Lys His Leu Gln Ala
145 150 155 160
Asn Thr Leu Val His Trp Gly Thr Trp Leu Gly Cys Thr Ile Thr Leu
165 170 175
Ser Ala Ile Ser Phe Leu Leu Ala Ser Ala Ile Pro Ile Phe Thr Tyr
180 185 190
Val Leu Ala Leu Val Gly Ser Leu Cys Tyr Ser Pro Leu Ala Ile Cys
195 200 205
Leu Pro Gly Trp Leu Trp Leu Tyr Ser His Gln His Tyr Arg Arg Gly
210 215 220
Ser Val Gly Arg Leu Val Ile Tyr Gly Leu His Val Gly Met Ile Leu
225 230 235 240
Leu Gly Ile Phe Met Thr Leu Gly Gly
245

<210> 22773
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22773
Ile Ile Cys Phe Arg Arg Ala Thr Ser Ile Tyr Gln Ile Thr Ala Tyr
1 5 10 15
Gln Ser Val Phe Gln Arg Lys Tyr His Ser Ala Trp Gly Ser Val Asp
20 25 30
Thr Ala Ser Arg Val Gly Pro Ser Gly Pro Asn Pro Ala Val Phe Ile
35 40 45
Leu His His Leu Ile His Thr Asn Ser Lys Ile Met Ala Asp Thr Trp
50 55 60
Cys
65

<210> 22774

<211> 108
<212> PRT
<213> A.fumigatus

<400> 22774
Gly Thr Thr Thr Ser Gly Ile Pro Pro Gly Asp Phe Thr Asn Asn Glu
1 5 10 15
Ser Gly Ala Thr Gln Pro Ser Met Pro Pro Arg Ile Ser Tyr Ser Ile
20 25 30
Thr Val Arg Ala Thr Ala Ser Ser Ile Ser Pro Asp Ile Pro Ala Ser
35 40 45
Asn Asp Ser Glu Ala Ala Gln Ala Gly Val Leu Pro Asn Val Pro Gly
50 55 60
Ala Val Thr Val Gly Ala Thr Ala Ser Asp Val Pro Pro Val Met Thr
65 70 75 80
Pro Arg Ala Ala Val Trp Cys Thr Ser Gln Cys Phe Arg Trp His Gly
85 90 95
Tyr Trp Ser Thr Cys Cys Trp Ser His Lys Pro Phe
100 105

<210> 22775
<211> 239
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (215)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22775
Ser Pro Cys Asn Gly Arg Cys Pro Gly Pro Cys Gly Glu Asp Phe Ser
1 5 10 15
Gly Ala Gln Asn Ser Lys Thr Asp Gly His Ala Gly Asn His Gln Glu
20 25 30
Asp Glu Val Gly Asn Lys Ala Val Lys Lys Pro Gln Ala Ser Asp Leu
35 40 45
Lys Thr Glu Cys Lys Asn Leu Glu Leu Pro Leu Asp Tyr Ser Ala Ser
50 55 60
Arg His His Ala Gly Ile Glu Gln Ile Leu Gln Ala Leu Glu Asp Phe
65 70 75 80
His Pro Gln Leu Asp Thr Pro Cys Lys Leu Trp Thr Phe Phe Ala Leu
85 90 95
Ala Lys Leu Tyr Asp Ile Ala Thr Thr Pro Lys Ile Cys Asp Leu Ile
100 105 110
Leu Ser Trp Phe Tyr Glu Ser Thr Asn Val Arg Phe Ile Glu Ile His
115 120 125
Pro Glu Ile Ser Tyr Arg Ile Ser Cys Gly Ile Gln Cys Ala Ser Leu
130 135 140
Cys Arg Asp Thr Phe Ser Ile Leu Val Gly Glu Glu Ala Leu Leu Leu
145 150 155 160
Leu Ala Asn Arg Asp Glu Pro Ala Arg Leu Gly Arg Pro Gln Glu Thr
165 170 175
Trp His Gly Arg Leu Arg Glu Ser Leu Asp Asp Thr Glu Leu Gln Arg
180 185 190
Ile Glu Tyr Ala Ser Lys Ser Phe Leu Asp Tyr Val Ile Asp Arg Phe

```
        195                 200                 205
Val His Leu Met Gly Ala Xaa Met Ala Trp Leu His Asp Leu Ser Glu
    210                 215                 220
Tyr Gln Lys Val Tyr His Phe Gln Pro Arg Ser Ser Pro Gly Arg
225                 230                 235

<210> 22776
<211> 60
<212> PRT
<213> A.fumigatus

<400> 22776
Arg Lys Gly Ile Ile Arg Leu Leu Met Ser Ala Lys Thr Asp Ser Tyr
1               5                   10                  15
Tyr Ile Ala Arg Thr Lys Asn Pro Met Ile Ser Ser Lys Tyr Gly Leu
            20                  25                  30
Arg Asn Pro Cys Arg Gln Arg Thr Ala Val Val Ser Phe Asp Leu Leu
        35                  40                  45
Asn Ile Asn Thr Glu Ser Ala Ser Lys Gly Val Val
    50                  55                  60

<210> 22777
<211> 104
<212> PRT
<213> A.fumigatus

<400> 22777
Asn His Arg Leu His Thr Leu Ile Ala Ile Phe Glu His Thr Leu Gln
1               5                   10                  15
Glu Ser Gln Phe Ser Asn Leu Ala Phe Lys Ser Phe Gln Ile Ile Thr
            20                  25                  30
Met Asp Pro Asn Met Asn Asn Leu Leu Lys Trp Ser Ile Glu Asn Ser
        35                  40                  45
Thr Ser Ala Arg Gln Ala Gly Asn Ser Asn Gly Thr Gly Pro Ala Pro
    50                  55                  60
Ala Ser Arg Ser Asn Leu Asn Pro Glu Met Leu Ser Ala Leu Phe Gly
65                  70                  75                  80
Gly Pro Ser Asp Ala Asp Leu Met Lys Ala Ala Met Glu Ala Val His
                85                  90                  95
Ser Asp Val Phe Thr Asp Gly Arg
            100

<210> 22778
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (46),(62)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22778
Arg Val Gln Leu Pro Leu Pro Val Leu Val Pro Leu Pro Gln Leu Lys
1               5                   10                  15
Lys Glu His Asn Tyr Gln Leu Leu Leu Met Met Asp Arg Lys Asp Tyr
```

```
            20                  25                  30
Leu Asn Leu Gly Leu Lys Ser Ile Tyr Gly Thr Pro Leu Xaa Lys Met
        35                  40                  45
Asn Glu Pro Leu Cys Leu Pro Gln Lys Ile Arg Gly Arg Xaa Glu Val
    50                  55                  60
Ser Lys Thr Val Gly Tyr Pro Asn Tyr Leu Leu Ser Phe Asn Ser Pro
65                  70                  75                  80
Gly
```

<210> 22779
<211> 77
<212> PRT
<213> A.fumigatus

<400> 22779
```
Cys Asn Ser Asp Pro Trp Trp Ile Phe Thr Thr Cys Ser Leu Phe Tyr
1               5                   10                  15
Thr Ile Lys Arg Glu Tyr Asn Phe Gly Ile Val Glu Leu Val Ser Val
            20                  25                  30
Ser Pro Arg Phe Gly Ile Met Leu Ala Ser Met Cys Leu Ser Ile Ala
        35                  40                  45
Phe Met Ile Val Asp Thr Cys Ser Val Leu Asn Val Phe Ser His Ser
    50                  55                  60
Ser Leu Pro Thr Gly Ile Glu Pro Phe Trp Lys Val Cys
65                  70                  75
```

<210> 22780
<211> 78
<212> PRT
<213> A.fumigatus

<400> 22780
```
Leu Ala Leu Ser Phe Gln Pro Arg Gly Glu Asp Lys Asn Arg Pro Phe
1               5                   10                  15
Met Ser Arg Lys Val Ser Leu Phe Tyr Ile Gly Thr Val Ile Leu Ala
            20                  25                  30
Gln Pro Tyr Trp Val Leu Glu Ile Tyr Ala Asn Phe Ala Tyr Phe Asn
        35                  40                  45
Asn Tyr Asn Lys Ile Phe Leu Thr Thr Arg Pro Leu Glu Pro Ile Phe
    50                  55                  60
Arg Phe Val Ser Arg His Trp Ala Leu Gln Ala Asp Ile Gly
65                  70                  75
```

<210> 22781
<211> 64
<212> PRT
<213> A.fumigatus

<400> 22781
```
Arg Arg Arg Tyr Ile Ser Arg Ile Ile Ile Ile Tyr Ser Arg Tyr Thr
1               5                   10                  15
Ser Ser Ile Val Val Arg Ala Val Tyr Ser Ser Tyr Ile Ser Tyr Gly
            20                  25                  30
Phe Tyr Leu Val Ser Tyr Leu Leu Tyr Leu Val Ile Ile Ile Tyr Lys
        35                  40                  45
```

```
Gly Leu Phe Leu Phe Asn Thr Ser Lys Tyr Ser Leu Tyr Phe Ile Ala
    50                  55                  60

<210> 22782
<211> 70
<212> PRT
<213> A.fumigatus

<400> 22782
Ala His Thr Phe Asn Asn Tyr Asn Ser Phe Ile Ile Pro Leu Asn Asn
1               5                   10                  15
Tyr Ile Gly Ser Leu Thr Val Ile Tyr Tyr Ser Asn Asn Leu Arg Cys
            20                  25                  30
Tyr Ile Glu Ser Tyr Tyr Lys Ala Ser Phe Ile Lys Val Leu Asp Ile
        35                  40                  45
Ile Phe Ile Asp Ala Met Phe Leu Asn Ser Ser Met Tyr Ser Phe Lys
    50                  55                  60
Leu Leu Phe Tyr Asn Leu
65                  70

<210> 22783
<211> 267
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (265)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22783
Ile Thr Asn Gly Leu Met Arg Cys Leu Leu Gly Asp Phe Ser Phe Ala
1               5                   10                  15
Arg Ser Leu Ala Val Gln His Arg Cys Arg Asp Ile Leu Ala Thr Cys
            20                  25                  30
Tyr Asp Ser Glu Glu Met Leu Tyr Ser Lys Tyr Pro Gln Ala Lys Gln
        35                  40                  45
His Val Gln Asp Leu Leu Gly Ser Phe Ser Asn Lys Arg Lys Gln Cys
    50                  55                  60
Asp Pro Asp Gly Ser Glu Thr Glu Lys Glu Ser Asn Gln Glu Ile Lys
65                  70                  75                  80
Lys Gly Gly Glu Gln Ser Asn Lys Lys Gln Asp Cys Lys Arg Arg Gly
                85                  90                  95
Pro Asn Val Leu Phe Ala Val Asp Ala Arg Lys Leu Gly Ser Pro Ser
            100                 105                 110
Gly Gly Gly Lys Asp Val Arg Thr Gly Phe Ala Arg Arg Glu Arg Lys
        115                 120                 125
Arg Pro Ala Trp Gln Asp Asn Arg Gln Lys Ile Glu Leu Ala Thr Asn
    130                 135                 140
Thr Gly Gly Pro Trp Asp Ile Ile Cys Phe Asn Phe Pro His Val Gly
145                 150                 155                 160
Gly Leu Ser Thr Asp Val Asn Arg Gln Val Arg Ser Asn Gln Glu Leu
                165                 170                 175
Leu Val Ala Phe Phe Lys Ser Cys Val Pro Leu Leu Ser Ala Arg Pro
            180                 185                 190
Gln Val Trp Asn Gly Asp Asp Glu Asp Glu Glu Asp Asp His Trp Ser
```

```
        195                 200                 205
Ser Ser Glu Asp Ser Ile Ser Asp Ser Ser Glu Gln Asp Asp Gln Asp
    210                 215                 220
Ile Pro Thr His Gly Arg Arg Gly Arg Tyr Arg Thr Glu Pro Gly Gln
225                 230                 235                 240
Ile Leu Val Thr Met Phe Glu Gly Glu Pro Tyr Thr Leu Trp Asn Met
                245                 250                 255
Val Ser His Lys Pro Lys Glu Gly Xaa Cys Ser
            260                 265
```

<210> 22784
<211> 287
<212> PRT
<213> A.fumigatus

<400> 22784

```
Asp Met Cys Leu Gly Gly Gly Ile Ala Gly Leu Thr Ala Ser Ile Ala
1               5                   10                  15
Leu Ala Lys Glu Leu Thr Lys Val Glu Pro Asp Leu Asp Met Ala Ile
            20                  25                  30
Tyr Glu Ser Arg Asp Glu His Ser Met Gly Glu Gly Gly Ala Ile Ser
        35                  40                  45
Leu Thr Pro Val Ala Gln His His Leu Asp Gln Leu Gly Val Leu Pro
    50                  55                  60
Glu Leu Ser Arg Met Gly Asp Gly Ala Gly Ile Glu Val Asp Glu Ile
65                  70                  75                  80
Asn Leu Tyr Ser Leu Arg Ser Gly Arg Ser Leu Gly Pro Leu Arg Phe
                85                  90                  95
Ala Asp Glu Thr Gly Arg Gly Tyr Gly Gly Tyr Lys Ser Arg Arg Val
            100                 105                 110
Arg Arg Ser Ala Leu Phe Arg Ala Met Leu Ala Val Ala Arg Arg Tyr
        115                 120                 125
Ala Gln Ile Ser Val Glu Phe Asp Lys Lys Leu Ser Ser Thr Thr Met
    130                 135                 140
Asp Gly Asn Thr Val Thr Leu Ala Phe Asp Asp Gly Thr Thr Thr Thr
145                 150                 155                 160
Gly Asp Leu Leu Leu Gly Cys Asp Gly Val His Ser Ala Val Arg Thr
                165                 170                 175
Gln Leu Val Asp Pro Gly Asn His Ser Glu Tyr Thr Gly Ile Ala Phe
            180                 185                 190
Ile Gln Ser Leu Ala Pro Ala Glu Arg Val Ser Leu Pro Ser His Leu
        195                 200                 205
Asn Gln Ser Ala Ile His Leu Thr Lys Gln Gly Ser Leu Leu Ala Ser
    210                 215                 220
Tyr Cys Asp Pro Ser His Gln Thr Leu Phe Val Ala Ala Ile Met Arg
225                 230                 235                 240
Val Asn Glu His Ile Ile Glu Arg Tyr Arg Ala Leu Ala Ser Thr Gly
                245                 250                 255
Thr Asn Thr Ala Ala Leu Thr Ser Ala Gln Met Ala Leu Arg Tyr Pro
            260                 265                 270
Val Arg Ser Ser Leu Thr Gly Ala Asp Glu Thr Arg Ala Tyr Val
        275                 280                 285
```

<210> 22785
<211> 64
<212> PRT

<213> A.fumigatus

<400> 22785
Ile Ile Ile Lys Lys Ala Leu Ile Gln Pro Thr Thr Phe Ser Pro Leu
1 5 10 15
Val His Ser Leu Thr Thr Asn Ser Ile Thr Thr Val Asn Pro Ser Val
20 25 30
Gln Ser Ile Ile Asn Gln His Leu Ser Asn Lys Lys Ala Ser Ser Gln
35 40 45
Tyr His Val Thr Pro Ile Asn Thr Thr Ala Pro Ser Lys Ala Asn Asp
50 55 60

<210> 22786
<211> 224
<212> PRT
<213> A.fumigatus

<400> 22786
Gln Arg Gly Phe Phe Glu Pro Arg Gly Glu Asp Gln Leu Phe Ser Tyr
1 5 10 15
Ile Lys Met Ala Ile Trp Asp Ser Ile Ser Gly Arg Lys Gln Ala Gln
20 25 30
Gly Ser Glu Ala Phe Asp Pro Ser Thr Ala Gln Asp Ala Thr Ser Phe
35 40 45
Leu Ser Glu Ala Leu Ile Pro Asp Pro Thr Gln Leu His Pro Leu Ala
50 55 60
Gly Leu Asn Gln Asp Thr Leu Asp Tyr Leu Thr Leu Glu Asp Ser Ala
65 70 75 80
Leu Asp Glu Ile Pro Gly Ser Arg Ser Val Leu Pro Ser Arg Gly Trp
85 90 95
Ser Asp Asp Leu Cys Tyr Gly Thr Gly Thr Thr Tyr Leu Thr Ala Leu
100 105 110
Thr Ile Gly Gly Ala Trp Gly Leu Ala Glu Gly Leu Lys Arg Thr Pro
115 120 125
Val Thr Ala Pro Pro Lys Ile Arg Leu Asn Gly Val Leu Asn Ser Ile
130 135 140
Thr Arg Arg Gly Pro Phe Leu Gly Asn Ser Ala Gly Val Val Ala Met
145 150 155 160
Val Tyr Asn Gly Phe Asn Ser Gly Leu Gly Tyr Ala Arg Gly Lys His
165 170 175
Asp Ala Ala Asn Ser Ile Val Ala Gly Ala Leu Ser Gly Met Leu Phe
180 185 190
Lys Ser Thr Lys Gly Leu Lys Pro Met Met Ile Ser Gly Gly Asn Gly
195 200 205
Ala Ser Ile Ala Gly Thr Gly Leu Tyr Val His Ser His Phe Phe Phe
210 215 220

<210> 22787
<211> 121
<212> PRT
<213> A.fumigatus

<400> 22787
Gly Phe Thr Ala Val His Ile Ala Ala Ile Thr Ala Thr Cys Trp Ile
1 5 10 15
Leu Phe Leu Asn Ala Leu Val Gly Phe Gln Phe Leu Asp Asp Gly Thr

```
            20                  25                  30
Pro Val Ser Val Gly Leu Cys Val Ala Ser Ala Leu Val Phe Phe Ile
        35                  40                  45
Gly Thr Gly Tyr Ile Ala Leu Asp Thr Ala Phe Asp Trp Thr Gly Glu
    50                  55                  60
Phe Ala Met Thr Pro Ser Asp His Tyr Arg Asn Ile Ala Leu Tyr Val
65                  70                  75                  80
Leu Tyr Gln Leu Phe Pro Phe Val Leu Leu Val Ala Phe Phe Val Leu
                85                  90                  95
Glu Ser Val Leu Val Ile Arg Val Leu Gly Glu Phe Arg Pro Met Cys
            100                 105                 110
Met Leu Asn Pro Gln Gly Leu Leu Ser
        115                 120
```

<210> 22788
<211> 77
<212> PRT
<213> A.fumigatus

<400> 22788
```
Leu Thr Gly Tyr Ala Val Tyr Leu Ser Ala Ala Gly Leu Leu Phe Ala
1               5                   10                  15
Ile Gly Gln Ile Phe Asn Tyr Val Ile Ser Thr His Leu Cys Gln Ala
            20                  25                  30
Ser His Gly Lys Ile Asn Gly Ala Leu Phe Glu Thr Leu Phe Thr Leu
        35                  40                  45
Leu Ser Val Val Met Val Trp Ile Phe Trp Ser Ser Ile Thr Glu Asp
    50                  55                  60
Asp Trp Pro Met Pro Met Ala Val Gly Thr Gly Tyr Asn
65                  70                  75
```

<210> 22789
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22789
```
Asn Gly Thr Ala Ala Val Val Pro Gly Arg Ala His Cys Asp Pro Leu
1               5                   10                  15
Ser Asp Gly Cys Thr Pro Arg Cys Asp Ser Glu Gln Pro Pro Pro Gly
            20                  25                  30
Gly His Tyr Thr Gly Pro Ala His Ala Leu Pro Thr Gln Ser Arg Cys
        35                  40                  45
Leu Ala Leu Phe Ser Ala Ala Pro Pro Arg Ser Gly Thr
    50                  55                  60
```

<210> 22790
<211> 150
<212> PRT
<213> A.fumigatus

<400> 22790
```
Ile His Pro Leu Cys Asn Ser Asn Arg Pro Leu Gly Ser Glu Thr Glu
1               5                   10                  15
Arg Arg Pro Leu Ser Leu Gly Glu His Thr Ala Ile Arg Tyr Pro Met
            20                  25                  30
```

```
Asp Val Arg His Val Ala Ile Leu Asn Asn His His Leu Glu Asp Ile
        35                  40                  45
Ile Gln Val Leu Arg Met His Phe Gln His Asn Leu Val Ala Trp Arg
    50                  55                  60
Cys Ser Arg Leu Leu Arg Arg Val Pro Glu Arg Asp Asn Arg Pro Gly
65                  70                  75                  80
Arg Val His Arg Asn Pro Gln Leu Gly Phe Glu Asp Thr Leu Val Pro
                85                  90                  95
Ala Gly Glu Thr Glu Ala Lys Arg Arg Gly Val Val Pro Leu Ala Pro
            100                 105                 110
Glu Leu Glu Glu Gly Glu Pro Arg Ala Val Val Glu His Ala Cys Leu
        115                 120                 125
Ala Asp Leu Pro Gly Leu Ala Glu Asp Gly Glu Glu Phe Gly Ser Gly
    130                 135                 140
Ile Phe Asp Arg Val Val
145                 150
```

<210> 22791
<211> 90
<212> PRT
<213> A.fumigatus

```
<400> 22791
Cys Pro Pro Gly Gly Gly Cys Ser Glu Ser Gln Arg Gly Val His Pro
1               5                   10                  15
Ser Asp Asn Gly Ser Gln Cys Ala Arg Pro Gly Thr Thr Ala Ala Val
            20                  25                  30
Pro Phe Gln Thr Gln Val Asp Gly Ser Ser Cys Thr Gly Gly Gly Ser
        35                  40                  45
Ile Thr Gly Gln Leu Ile Phe Gly Leu Ala Trp Thr Ser Leu Trp Leu
    50                  55                  60
Thr Ala Val Asp Ser Cys Cys Cys Gly His Cys Trp Pro Thr Ser Arg
65                  70                  75                  80
Val Gly Cys Arg Gly Arg Leu Ile Gly Ile
                85                  90
```

<210> 22792
<211> 197
<212> PRT
<213> A.fumigatus

```
<400> 22792
Leu Asn Glu Ala Leu Glu Leu Arg Gly Glu Tyr Pro Pro Phe Pro Ile
1               5                   10                  15
Ala Ile Arg Pro Glu Ser Ile Thr Arg His Glu Val Ile Val Thr Val
            20                  25                  30
Thr Asn Arg Pro Glu Pro Trp His Ser Leu Asp Tyr Ser Ile Glu Tyr
        35                  40                  45
Ala Gly Thr Glu Leu Phe Thr Val Leu Gly Gln Pro Trp Lys Val Ser
    50                  55                  60
Gln Ala Arg Met Phe His Asp Arg Ser Gly Leu Pro Leu Phe Glu Leu
65                  70                  75                  80
Arg Cys Gln Trp Tyr Asp Ser Ser Ser Leu Cys Leu Arg Leu Pro Gly
                85                  90                  95
Gly Asp Gln Cys Ile Leu Glu Ala Lys Leu Arg Val Ala Met Asn Ala
            100                 105                 110
```

```
Pro Arg Ala Val Val Thr Phe Arg Asn Ala Ala Glu Gln Pro Arg Thr
        115                 120                 125
Ala Pro Ser Asn Glu Ile Val Leu Glu Val His Ala Gln Asp Leu Tyr
    130                 135                 140
Asn Val Leu Gln Val Val Val Val Gln Asn Arg Asn Val Ala Tyr Ile
145                 150                 155                 160
His Arg Ile Thr Asp Arg Ser Val Leu Ala Gln Gly Gln Arg Pro Pro
                165                 170                 175
Phe Arg Phe Arg Pro Lys Trp Thr Val Arg Val Ala Gln Gly Val Asp
            180                 185                 190
Leu Ser Leu Val Ser
        195
```

<210> 22793
<211> 92
<212> PRT
<213> A.fumigatus

<400> 22793

```
Gln Arg Ser Leu Ser Ser Glu Arg Tyr Pro Gln Met Gly Val Ala Glu
1               5                   10                  15
Ser Gln Tyr Arg Phe Gly Met Gln Cys Phe Gln Gln Phe Leu Thr Lys
            20                  25                  30
Phe Val Gln Gly Ala Ala Arg Glu Ile Glu Ser Thr Val Thr Ile Thr
        35                  40                  45
Ile Lys Ile Ser Gly Glu Met Phe Tyr Val Ile Gly Tyr Val Ser Leu
    50                  55                  60
Arg Tyr Asn Leu Leu Val Ile Arg Val Ala Asn Ala His Met Thr Gln
65                  70                  75                  80
His Asn Arg Leu Leu Ser Ile Ile Ser Ser Gly Asn
                85                  90
```

<210> 22794
<211> 171
<212> PRT
<213> A.fumigatus

<400> 22794

```
Pro Asp Ala Gly Gly Ala Gly Lys Thr Gln Thr Ala Leu His Tyr Ala
1               5                   10                  15
Val Gln Asn Leu Ser Lys Tyr Pro Ser Gly Ile Ala Phe Ile Asn Ala
            20                  25                  30
Thr Ser Val Ile Ser Leu Ser Ala Asp Phe Asp Arg Leu His Asp Leu
        35                  40                  45
Leu Arg Leu Gly Asp Ser Lys Asp Lys Ile Gly Ala Val Lys Gly Trp
    50                  55                  60
Leu Ser Arg Pro Glu Asn Asn Lys Trp Leu Leu Val Phe Asp Asn Ala
65                  70                  75                  80
Asp Asp Leu Asp Asn Val Pro Leu His Lys Phe Tyr Pro Ala Val Asn
                85                  90                  95
Trp Gly His Ile Ile Ile Thr Ser Arg Asp Gln Ala Val Ile Gly Ser
            100                 105                 110
Ile Ala Glu Asn Gly His Val Leu Ser Pro Leu Thr Glu Asn Asp Ala
        115                 120                 125
Val Gln Leu Leu Leu Glu Lys Ser Gly Ile Gln Asn Pro Thr Glu Gly
    130                 135                 140
```

```
Asp Ile Glu Asp Ala Arg Thr Val Thr Gly Leu Leu Gly Ser Leu Pro
145                 150                 155                 160
Leu Ala Leu Val Thr Ala Gly Ala Phe Val Arg
                165                 170
```

<210> 22795
<211> 178
<212> PRT
<213> A.fumigatus

<400> 22795

```
Arg Pro Ala Met Leu Lys Ala Val Glu Ala Lys Phe Lys Glu Ala Ala
1               5                   10                  15
Leu Lys Ala Lys Asp Ala Glu Ile Leu Leu Glu His Glu Ala Gly Phe
            20                  25                  30
Leu Glu Pro Glu Gly Glu Leu Glu Arg Thr Tyr Lys Val Arg Gln Asp
        35                  40                  45
Glu Ile Arg Asp Asn Val Ala Ile Glu Thr Ala Lys Lys Gly Phe Glu
    50                  55                  60
Leu Lys Leu Glu Asp Leu Gly Pro Tyr Arg Ala Asp Tyr Thr Arg Asn
65                  70                  75                  80
Gly Arg Glu Leu Leu Leu Ala Gly Arg Lys Gly His Val Ala Thr Met
                85                  90                  95
Asp Trp Arg Lys Gly Lys Leu Gly Cys Glu Leu Gln Leu Gly Glu Thr
            100                 105                 110
Val Arg Asp Ala Arg Trp Leu His Asn Asn Gln Tyr Phe Ala Val Ala
        115                 120                 125
Gln Arg Lys His Val Tyr Ile Tyr Asp His Ala Gly Val Glu Leu His
    130                 135                 140
Cys Leu Asn Lys Tyr Ile Glu Pro Leu Phe Leu Asp Phe Leu Pro Tyr
145                 150                 155                 160
His Phe Leu Leu Val Gly Ala Val Arg Leu Thr Leu Phe Phe Gly Ser
                165                 170                 175
Asp Thr
```

<210> 22796
<211> 174
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(15)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22796

```
Pro Phe Asn Thr Pro Lys Ile Gly Lys Pro Ser Ser Ser Xaa Xaa Asp
1               5                   10                  15
Gln Ile Pro Gly Asp Ile Tyr Arg Gly Glu Ser Ser Arg Ile Phe Phe
            20                  25                  30
Glu Phe Leu Asn Pro Phe Ala Arg Thr Ile Ala Phe Lys Ala Ala Asp
        35                  40                  45
Ala Gly Phe Pro Ser Gly Thr Ser Pro Phe Arg Tyr Arg Gln Gly Gln
    50                  55                  60
Arg Ile Trp Phe Tyr Met Pro Phe Ile His Ala Glu Asp Leu Asp Met
```

65 70 75 80
Gln Glu Leu Ala Arg Ile Lys Tyr Ala Glu Met Ala Glu Asp Phe Thr
85 90 95
Arg Leu Leu Asp Gly Asp Ala Thr Gly Leu Ser Asp Asp Glu Ala Gln
100 105 110
Cys Arg Gln Ile Leu Leu Glu Asn Arg Ala Arg Leu Glu Glu Gln Leu
115 120 125
Thr Thr His Phe Arg Val Gln Arg Glu His Tyr Glu Pro Ile Ala Arg
130 135 140
Phe Gly Arg Phe Pro His Arg Asn Val Ala Leu Gly Arg Glu Thr Ser
145 150 155 160
Asp Glu Glu Arg Arg Phe Leu Glu Glu Gly Lys Ile Phe Gly
165 170

<210> 22797
<211> 93
<212> PRT
<213> A.fumigatus

<400> 22797
Ala Cys Asp Ser Phe Pro Lys Asp Asp Pro Lys Lys Pro Val His Leu
1 5 10 15
Thr Ala Ser Met Gly Tyr Lys Ala Gly Met Thr Thr Val Val Arg Asp
20 25 30
Leu Asp Arg Pro Gly Ala Lys Met His Lys Lys Glu Ile Val Glu Ala
35 40 45
Val Thr Ile Ile Glu Thr Pro Pro Val Cys Ser Leu Thr Gln Gly Phe
50 55 60
Gly Trp Leu Arg Lys Arg Gly Gly His Leu His Leu Leu Ser Ile Ala
65 70 75 80
Cys Cys Cys Arg Cys Cys Arg Leu His Arg Leu His Arg
85 90

<210> 22798
<211> 260
<212> PRT
<213> A.fumigatus

<400> 22798
Pro Lys Gly Gln Asn Ala Ile Thr Arg Gln Glu Leu Asp Ala Lys Pro
1 5 10 15
Leu Leu Gln Leu Leu Ala Thr Ser Ile Arg Arg Pro Leu Thr Met Leu
20 25 30
Val Thr Glu Tyr Val Val Phe Phe Ser Thr Leu Trp Ser Ala Phe Thr
35 40 45
Val Gly Thr Leu Tyr Leu Phe Thr Gln Ser Val Glu Gln Val Phe Val
50 55 60
Gly Leu Tyr Asp Trp Gly Pro Val Thr Ala Gly Tyr Val Gln Ala Ala
65 70 75 80
Ile Val Ile Gly Glu Val Ala Gly Trp Phe Cys Ser Ile Pro Ser Ala
85 90 95
Gln Leu Tyr Phe Ala Ser Ala Ser Arg Asn Thr Glu Met Pro Gly Leu
100 105 110
Pro Ile Pro Glu Ala Arg Leu Tyr Leu Ser Val Ala Gly Ser Val Val
115 120 125
Gly Ile Ala Gly Gly Met Phe Val Tyr Ala Trp Thr Ser Tyr Pro Thr

```
    130                 135                 140
Leu Pro Trp Val Ala Pro Ala Val Gly Leu Phe Met Val Gly Ala Gly
145                 150                 155                 160
Ser Val Val Val Val Ser Gly Leu Ala Asp Tyr Ile Val Asp Ala Tyr
                165                 170                 175
Ser Gln Tyr Ala Gly Ser Val Met Ala Cys Phe Val Leu Gly Glu Asn
            180                 185                 190
Thr Phe Ser Ala Phe Leu Pro Leu Ala Ala Met Arg Met Tyr Asn Thr
        195                 200                 205
Leu Gly Phe Gln Trp Ala Ser Thr Leu Leu Ala Leu Ile Ser Leu Ser
    210                 215                 220
Leu Val Val Ala Pro Val Ala Phe Ile Val Trp Gly Arg Lys Val Arg
225                 230                 235                 240
Glu Lys Ser Pro Tyr Met Arg Glu Val Ile Lys Glu Lys Arg Met Gln
                245                 250                 255
Ala Gly Leu Gln
            260
```

<210> 22799
<211> 275
<212> PRT
<213> A.fumigatus

<400> 22799

```
Glu Arg Val Ser Phe Gln Pro Pro Trp Val Lys Thr Asp Arg Leu Leu
1               5                   10                  15
Gln Ala Ser Leu His Pro Leu Leu Leu Asp His Leu Ser His Ile Arg
            20                  25                  30
Thr Leu Leu Ala His Phe Pro Pro Pro Asn Asp Lys Arg Asp Trp Gly
        35                  40                  45
His His Gln Arg Gln Thr Asp Gln Arg Gln Gln Arg Thr Gly Pro Leu
    50                  55                  60
Glu Pro Gln Arg Ile Ile His Ala His Gly Arg Gln Arg Gln Lys Arg
65                  70                  75                  80
Arg Lys Gly Ile Leu Pro Gln His Glu Thr Gly His Asp Thr Ala Gly
                85                  90                  95
Val Leu Ala Val Arg Ile Asp Asp Val Val Arg Glu Ser Arg Asp His
            100                 105                 110
His Asp Ala Ala Gly Ala Asp His Glu Gln Ala His Arg Gly Gly Asn
        115                 120                 125
Pro Arg Glu Arg Arg Val Arg Gly Pro Arg Val His Glu His Ala Pro
    130                 135                 140
Gly Asp Pro Asn His Ala Ala Gly His Gly Gln Val Gln Pro Gly Phe
145                 150                 155                 160
Gly Asp Gly Glu Thr Arg His Leu Gly Val Ala Thr Gly Arg Cys Glu
                165                 170                 175
Val Gln Leu Gly Arg Gly Asp Gly Ala Glu Pro Pro Gly Asp Phe Ala
            180                 185                 190
Asn His Asn Gly Gly Leu Asp Val Ser Gly Cys Asp Arg Thr Pro Val
        195                 200                 205
Val Gln Thr His Lys His Leu Leu Asp Gly Leu Gly Glu Glu Val Gln
    210                 215                 220
Arg Ala Asp Gly Lys Gly Arg Pro Gln Arg Arg Glu Glu Asp His Val
225                 230                 235                 240
Leu Gly Asp Gln His Arg Glu Arg Pro Pro Asp Ala Arg Gly Gln Gln
                245                 250                 255
```

```
Leu Gln Gln Arg Leu Arg Ile Glu Phe Leu Ala Arg Tyr Ser Ile Leu
            260                 265                 270
Ala Phe Gly
        275

<210> 22800
<211> 72
<212> PRT
<213> A.fumigatus

<400> 22800
Arg Met Lys Ile Pro Ala Gly Ile Val Ile Pro Val Pro Ser Ala Ile
1               5                   10                  15
Val Val Ile Tyr Ser Val Pro His Asn Asn Thr Leu Ala Pro Pro Val
            20                  25                  30
Ala Arg Ser Ile Pro His Asn Thr Asn Phe Gly Ser Tyr Leu Arg Gly
        35                  40                  45
Thr Trp Leu Phe Thr Val Ala Tyr Tyr Asn Asn Ile Ala Asp Arg Met
    50                  55                  60
Leu Phe Leu Thr Cys Val Phe Ala
65                  70

<210> 22801
<211> 214
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (202)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22801
Ile Leu Gln Ile His Cys Ser His Arg Ser Leu His His Leu Gln Ser
1               5                   10                  15
Leu Glu His Ile Val Gln Asn Leu Leu Arg Ser Gly Leu Ala Thr His
            20                  25                  30
Val Arg Arg Lys Glu Leu Ala Leu Val Glu Ile Gly Val Asn Gly Thr
        35                  40                  45
Ile Asn Leu Gly Ser Gly Leu Leu Leu Thr Gln Lys Leu Glu His Gln
    50                  55                  60
Ser Asp Ala Ala Gln Ser Ser Asp Gly Val Gly Asp Ala Leu Ala Leu
65                  70                  75                  80
Asp Val Gly Gly Thr Ala Val Ala Gly Leu Ala Asn Ser Glu Thr Ile
                85                  90                  95
Thr Asp Val Gly Ala Gly His Glu Thr Gln Ala Ala Asn Gln Ser Ser
            100                 105                 110
Ser Thr Val Gly Gln Asn Val Ala Val Gln Val Arg Gly Asn Asn His
        115                 120                 125
Ile Val Val Leu Gly Leu Thr Glu Glu Leu Val Asp His Gly Val Asp
    130                 135                 140
Asn Leu Leu Leu His Leu Asn Arg Gly Lys Ala Leu Arg Gly Glu Ser
145                 150                 155                 160
Leu Ala Gly Gly Phe Pro Glu Glu Thr Val Cys Leu Arg Gln Asp Val
                165                 170                 175
Arg Leu Val Gly Asp Gly His His Gly Leu Gly Ala Glu Ser Arg Ala
```

```
            180                 185                 190
Ala Ser Gly Ile Thr Asp Arg Pro Thr Xaa Ser Pro Ser Glu Pro Arg
        195                 200                 205
Arg Ile Arg Ala Arg Val
    210
```

<210> 22802
<211> 188
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22802

```
Xaa Arg Arg Thr Ile Arg Asp Ala Ala Gly Ser Ser Ala Leu Arg Ala
1               5                  10                  15
Lys Pro Met Val Thr Ile Thr His Lys Ser Asn Val Leu Ser Gln Thr
            20                  25                  30
Asp Gly Leu Phe Arg Glu Thr Ala Arg Lys Ala Leu Ala Ala Glu Arg
        35                  40                  45
Phe Ser Ser Val Glu Val Glu Glu Gln Ile Val Asp Ser Met Val Tyr
    50                  55                  60
Lys Leu Phe Arg Gln Pro Glu Tyr Tyr Asp Val Ile Val Ala Pro Asn
65                  70                  75                  80
Leu Tyr Gly Asp Ile Leu Ser Asp Gly Ala Ala Ala Leu Val Gly Ser
                85                  90                  95
Leu Gly Leu Val Pro Ser Ala Asn Val Gly Asp Gly Phe Ala Ile Gly
            100                 105                 110
Glu Pro Cys His Gly Ser Ala Pro Asp Ile Glu Gly Lys Gly Ile Ala
        115                 120                 125
Asn Pro Ile Ala Thr Leu Arg Ser Val Ala Leu Met Leu Glu Phe Leu
    130                 135                 140
Gly Glu Glu Gln Ala Ala Ala Lys Ile Tyr Gly Ala Val Asp Ala Asn
145                 150                 155                 160
Leu Asp Glu Gly Lys Phe Leu Ser Pro Asp Met Gly Gly Lys Ala Thr
                165                 170                 175
Thr Gln Glu Val Leu Asp Asp Val Leu Lys Arg Leu
            180                 185
```

<210> 22803
<211> 205
<212> PRT
<213> A.fumigatus

<400> 22803

```
Arg Arg Arg Ser Ile Ser Arg His Arg Tyr Asp Pro Asp Phe Ser Ser
1               5                  10                  15
Thr Thr Tyr Leu Ser Pro Val Val His Glu Asp Val Arg Ile His Arg
            20                  25                  30
Ser Ala Ser Thr Gly Ala Arg Arg Arg Arg Glu Leu Gln Pro Pro Pro
        35                  40                  45
Pro Pro Pro Ala Val Ile Val Asp Ile Asn Asn Val Ser Arg Asn Lys
    50                  55                  60
```

```
Ser Thr Asn Arg Ser Ala Asn Lys Asn Arg Lys His Arg Gln Glu Asp
65                  70                  75                  80
Thr Thr Ile Val Asp Ile Glu Ser Glu Asp Glu Thr Val Leu Arg Lys
                85                  90                  95
His Arg Arg Pro Arg Ala Ser Thr Ser Val Ser Arg Glu Ala Ser Pro
            100                 105                 110
Arg His Glu Ala Ser Pro Arg His Gln Arg Asp Phe Glu Leu Val Ile
        115                 120                 125
Asp Gln Arg Met Leu Glu Lys Asn Asp Val Arg Gln Asp Leu Glu Leu
    130                 135                 140
Met Lys Gln Gln Met Glu Ile Glu Arg Leu Glu Arg Glu Leu Ala Arg
145                 150                 155                 160
Arg Arg Gly Glu His Glu Asn Asn Gln Thr Gln Leu Ile Arg Glu Glu
                165                 170                 175
Glu Thr Trp Tyr Glu Asp Glu Ile Ser Asp Arg Leu Arg Arg Leu Gly
            180                 185                 190
Leu Pro His Gly Ala Gly Arg Ile Asp Gly Gly Gln Ser
        195                 200                 205
```

<210> 22804
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22804

```
Ile His Gly Arg Arg Ser Val Glu Ser Val Asn Val Ile Val Tyr Ser
1               5                   10                  15
Asp Ser Leu Glu Tyr Leu Asn Ser Leu Cys Ile Ile His Ala Ala Leu
            20                  25                  30
Leu Arg Ser Ser Ala Ser His Ser Thr Gln Ala Glu Ser Leu Asp Tyr
        35                  40                  45
Cys Thr Ile Phe Arg Gly Ser Met Arg Ser Ser Cys Ala
    50                  55                  60
```

<210> 22805
<211> 98
<212> PRT
<213> A.fumigatus

<400> 22805

```
Ala His Phe Ser Gly Gln Pro His Gln Pro Leu Gly Cys Cys Thr Leu
1               5                   10                  15
Ala Tyr Ala Tyr Asp Leu Trp Arg Asn Glu Thr Leu Leu Ser Tyr Leu
            20                  25                  30
Ser Phe Val Pro Tyr Ala Ile Asp Thr Leu Ser Tyr Glu Glu Arg Tyr
        35                  40                  45
Ser Pro Asp Ala Leu Ile Pro Cys Arg Ile Ile Asn Gln Ser Ser Asn
    50                  55                  60
Pro Ile Glu Lys Asp Ala Ile Asp Ser Trp Arg Gly Arg Lys Thr Leu
65                  70                  75                  80
Lys Ser Ile Arg Arg Met Leu Phe Thr Thr Ser Ala Arg Ser Ala Asn
                85                  90                  95
Arg Ser
```

<210> 22806

<211> 63
<212> PRT
<213> A.fumigatus

<400> 22806
Thr Ile Ser Tyr Val Phe Tyr Ile Cys Tyr Phe Ala Ile Ala Ile Arg
1 5 10 15
Ile Thr Met Asp Gly Phe Leu Gly Lys Met Ile Glu Lys Phe Ala Glu
20 25 30
Lys Ala Thr Gly Gly Ser Ser Asn Ser Gly Gly Asp Gly Tyr Ser Ser
35 40 45
Leu Gln Gln Lys Gln Pro Gln Leu Arg Trp Thr Gly Ala Met Val
50 55 60

<210> 22807
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22807
Leu Ile Ile Phe Leu Leu Ile Pro Leu Ile Phe Thr Ser Arg Leu Ala
1 5 10 15
Leu Ala Arg Asn Gly Ala Leu Asn Phe Thr Asn Ser Pro Gly Phe Leu
20 25 30
Thr Phe Phe Ile Phe Ser Arg Ala Ser Leu Val Glu Pro Ser Val Thr
35 40 45
Leu Ser Ile Val Pro Leu Pro Leu Pro Pro Leu Thr Arg Ser Pro Ile
50 55 60
Phe His Asn Tyr
65

<210> 22808
<211> 107
<212> PRT
<213> A.fumigatus

<400> 22808
Leu Ala Arg Leu Pro Ile Ser Lys Ile Leu Asn Lys Ile Pro Thr Ala
1 5 10 15
His Glu Asn Leu Ala Ser Thr His Asp Ala Trp Leu Thr Thr Ala Arg
20 25 30
Ala Ile Cys Thr Thr Asp Thr Phe Pro Lys Leu Leu Ser Arg Thr Phe
35 40 45
Ala Leu Pro Ser Ser Pro Gly Arg Thr Tyr Ser Leu Ala Gly Met Thr
50 55 60
Lys Gly Ala Gly Met Ile His Pro Asn Met Ala Thr Leu Leu Gly Ile
65 70 75 80
Leu Cys Thr Asp Ala Pro Ile Asp Pro Ser Ala Leu Gln Ser Leu Leu
85 90 95
Ser Leu His His Gly Ser Cys Arg Ile Arg Ala
100 105

<210> 22809
<211> 229
<212> PRT
<213> A.fumigatus

<400> 22809
Thr Leu Asp Met Ala Met Pro Ala Ser Lys Gln Lys Tyr Ile Pro Ser
1 5 10 15
Ser Gly Ser Tyr Pro Lys Gly Phe Leu Val Ser Gly Thr His Val Gly
20 25 30
Val Lys Ala Ser Asn Thr Lys Phe Pro Asp Leu Ala Leu Ile Ser Ser
35 40 45
Glu Thr Pro Cys Ser Ala Ala Ala Val Phe Thr Thr Asn Lys Phe Gln
50 55 60
Ala Ala Pro Val Gln Val Ser Lys Lys Thr Leu Glu Ser Arg Gln Gly
65 70 75 80
Gln Gly Ile Arg Ser Val Val Ile Asn Ser Gly Cys Ala Asn Ala Val
85 90 95
Thr Gly Lys Gly Gly Leu Glu Asp Ala Leu Asn Met Gly Lys Lys Val
100 105 110
Asp Glu Cys Asn Gly Leu Ser Glu Pro Ser Thr Ile Val Met Ser Thr
115 120 125
Gly Val Ile Gly Gln Arg Tyr Ile Pro Leu Pro Leu Pro Gln Pro Pro
130 135 140
Pro Pro Pro Pro Ala Pro Ala His Thr His Thr His Thr Gln Ser Tyr
145 150 155 160
Glu Ser Leu Thr Ser His Asp Leu Pro Asp Phe Leu Ser Pro Arg Ser
165 170 175
Ser Thr Lys Ser Pro Arg His Thr Arg Thr Ser His Pro Arg Thr Thr
180 185 190
Pro Gly Ser Pro Pro Pro Ala Pro Ser Val Gln Gln Thr Pro Phe Pro
195 200 205
Ser Cys Ser Arg Glu Pro Ser Pro Ser Pro Arg Pro Pro Ala Ala Pro
210 215 220
Thr Ala Ser Pro Ala
225

<210> 22810
<211> 72
<212> PRT
<213> A.fumigatus

<400> 22810
Arg His Glu Thr Arg His Gln Arg Ser Ser Ser Lys Leu Lys Gly Met
1 5 10 15
Pro Glu Gln Ala Gly Lys Tyr Leu Ala Ser Trp Ser Ser Glu Cys Ile
20 25 30
Pro Ser Ser Phe Val Ile Ala Leu Gly Pro Ser Ile Thr Val Gln Gly
35 40 45
Leu Ser Ala Ile Asp Asn Arg Ser Thr His Arg Glu Ser Asp Ile Trp
50 55 60
Tyr Leu Arg Val Phe Val Lys Asn
65 70

<210> 22811
<211> 135
<212> PRT
<213> A.fumigatus

<400> 22811

```
Cys Val Gln Gly Ser Val Thr Leu Leu Gly Asp Ala Cys His Pro Thr
1               5                  10                  15
Leu Pro Tyr Gln Ala Gln Gly Ala Ala Met Ala Val Glu Asp Gly Ala
            20                  25                  30
Val Leu Gly Leu Leu Leu His His Val Ala Ser Ser Pro Asp Tyr Arg
        35                  40                  45
Ser Lys Ile Pro Gln Ala Leu Lys Leu Tyr Glu Asp Leu Arg Lys Pro
    50                  55                  60
Arg Thr Ala Arg Asn Val Gln Gly Ala Ile Arg Asn Arg Arg Gly Phe
65                  70                  75                  80
His Leu Glu Asp Gly Leu Leu Gln Arg Leu Arg Asp Leu Val Leu Ser
                85                  90                  95
Trp Ser Gly Leu Thr Arg Glu Thr Asp Trp Ile Gly Leu Met Ser Ser
            100                 105                 110
Arg Gln Arg Ala Val Leu Gly Phe Asp Val Leu Gln Glu Val Glu Gln
        115                 120                 125
Arg Met Pro Glu Leu Ser Thr
    130                 135
```

<210> 22812
<211> 72
<212> PRT
<213> A.fumigatus

<400> 22812

```
Ile Cys Arg Asn Gly Gln Thr Ile Met Arg Leu Pro Asp Val Asn Ser
1               5                  10                  15
His Pro Glu Thr Ser Ser Ser Gly Cys Arg Arg Ser Ala Leu Asn Ser
            20                  25                  30
Ser Gly Val Leu His Arg Asn Val Asp Thr Asn Pro Ser Asn Glu Gln
        35                  40                  45
Thr Thr Glu Asn Ser Gly Thr Thr Tyr Val Lys Asn Arg Cys Lys Gly
    50                  55                  60
Glu Cys Gln Tyr Cys Cys Ser Val
65                  70
```

<210> 22813
<211> 375
<212> PRT
<213> A.fumigatus

<400> 22813

```
Gly Ser Pro Ser Gly Arg Trp Leu Arg Leu Ser Thr Asp Val Glu Val
1               5                  10                  15
Glu Ser Arg Thr Ser Glu Ala Pro Ala Ser Leu Leu Trp Ser Leu Ser
            20                  25                  30
Gly Ser Val Glu Ala Ala Lys Glu Gly Glu Ser Gly Leu Arg Arg Val
        35                  40                  45
Ser Leu Gly Lys Pro Ser Ser Ile Ala Arg Tyr Phe Ala Leu Val Arg
    50                  55                  60
Val Trp Ile Pro Trp Leu Gly Pro Arg His Gly Lys Lys Asn Phe Ser
65                  70                  75                  80
Leu Thr Glu Asp Ala Val Leu Cys Ser Phe Leu Arg Thr Asp Gly Ser
                85                  90                  95
His Leu Val Leu Leu Ala Val Ser Gly Ile Ser Asp Val Leu Thr Val
            100                 105                 110
```

```
Leu Ala Ser Asn Glu Lys Gly Glu Val Val Ile Lys Ala Lys Ser Asp
        115                 120                 125
His Thr Glu Ala Ser Lys Phe Gln Val Leu Ala Ser Ala Ala Asp Asp
    130                 135                 140
Phe Glu Val Ala Met Ser Ala Val Ile Tyr Glu Ala Arg Lys Met Val
145                 150                 155                 160
Arg Pro Tyr Ala Thr Glu Gly Leu Ser Asp Arg Ser Pro Thr Pro Val
                165                 170                 175
Ser Pro Met Asp Asn Asp Ile Val Val Val Glu Lys Asp Pro Gln Ala
            180                 185                 190
Gln Trp Met Ser Glu Trp Tyr Asp Gly Leu Gly Tyr Cys Thr Trp Asn
        195                 200                 205
Gly Leu Gly Gln Asn Leu Thr Glu Glu Asn Ile Leu Phe Ala Leu Asn
    210                 215                 220
Ser Leu Lys Glu Lys Gly Ile Glu Ile Gln Asn Leu Phe Ile Asp Asp
225                 230                 235                 240
Asn Trp Gln Ala Leu Asp Asn Glu Gly Glu Ser Gln Phe Asn Arg Ala
                245                 250                 255
Trp Thr Arg Phe Glu Ala Asp Ser Lys Ala Phe Pro Gln Gly Phe Lys
            260                 265                 270
Arg Gly Ile Glu Thr Ile Arg Gln Lys His Arg Asn Ile Gln His Ile
        275                 280                 285
Ala Val Trp His Ala Leu Phe Gly Tyr Trp Gly Gly Ile Ser Pro Asn
    290                 295                 300
Gly Asp Leu Ala Arg Ala Tyr Lys Thr Lys Glu Val Gln Ile Thr Asp
305                 310                 315                 320
Pro Ala Thr Gly Gly Thr Val Ala His Ala Ser Glu Lys Gly Ser Leu
                325                 330                 335
Leu Ala Ile Asp Pro Glu Asp Ile Gln Arg Phe Tyr Asp Asp Phe Tyr
            340                 345                 350
Ser Phe Leu Ser Ser Val Gly Val Asp Ser Val Lys Thr Glu Ser Cys
        355                 360                 365
Pro Arg Val Asp Asn Pro Arg
    370                 375

<210> 22814
<211> 136
<212> PRT
<213> A.fumigatus

<400> 22814
Asp Trp Asp Arg Leu Arg Ser Ile Ile Ala Pro Thr Leu Thr Val Asp
1               5                   10                  15
Tyr Arg Gln Ile Gly Leu Arg Lys Trp Asp Asp Met Pro Ala Glu Asp
            20                  25                  30
Tyr Met Ala Met Ile Ser Asp Met Asp Phe Leu Gly Asp Pro Thr Val
        35                  40                  45
Lys Thr Gln His Leu Leu Gly Glu Ser Trp Trp Glu Lys Ile Ser Asp
    50                  55                  60
Thr Glu Val Ile Gly His His Gln Leu Arg Ala Ala His Gln Val Tyr
65                  70                  75                  80
Thr Asp Ser Thr Leu Gln Thr Val Lys Leu Lys Gly His Gly His Ala
                85                  90                  95
Thr Asn Glu His Tyr Tyr Arg Lys Val Asp Gly Val Trp Lys Phe Ala
            100                 105                 110
Gly Leu Lys Pro Thr Val Arg Trp Asn Glu Tyr Gln Phe Glu Asp Val
```

```
        115                 120                 125
Phe Arg Ala Ala Lys Pro Ser Val
    130                 135

<210> 22815
<211> 198
<212> PRT
<213> A.fumigatus

<400> 22815
Leu Ile Arg Leu Ile Leu Tyr Ala Glu Thr Lys Ile Leu Ser Ser Ile
1               5                  10                  15
Met Ala Ser Ser Gln Asp Asn Phe Val Ser Lys Thr Asn Pro Asp Pro
            20                  25                  30
Tyr Asp Gln Ile Ile Val Leu Ser Gln Lys Val Ile Asn Ala Gly Phe
        35                  40                  45
Lys Asn Met Trp Lys Leu Ala Gln Gly Asp Asp Asp Ser Pro Leu Thr
    50                  55                  60
His Phe Lys Lys Ser Ile His Gly Glu Tyr Ile Glu Ala Asp Val Gly
65                  70                  75                  80
Ile Pro Ser Val Lys Leu His Val Glu Ser Arg Glu Pro Met Leu Tyr
                85                  90                  95
Phe Leu Leu Ala Leu Lys Asn Gly Glu Met Ala Val Tyr Glu Ser Asp
            100                 105                 110
Asp Ser Asp Thr Leu Phe Lys Trp Asp Ile Lys Asp Trp Val Leu Ala
        115                 120                 125
Phe Asn Val Val Leu Ser Lys Cys Asn Gly Cys Pro Ser Thr Gly Arg
    130                 135                 140
Ser Met Glu Pro Ala Pro Asn His Pro Ser Leu Pro Leu Leu Asp Gln
145                 150                 155                 160
Lys Lys Ile Thr Lys Asp Ser Glu Glu Tyr Arg Lys Phe Lys Glu Arg
                165                 170                 175
Ala Gly Leu Pro Glu Ser Asn Phe Ser Leu Ala Gln Leu Phe Ile Asp
            180                 185                 190
Ala Ser Cys Gly Cys Pro
        195

<210> 22816
<211> 67
<212> PRT
<213> A.fumigatus

<400> 22816
Gly Val Leu Gly Arg Val Val Gln Ala Thr Asn Ala Lys Val Arg Ala
1               5                  10                  15
Val Asn Glu Tyr Ala Pro Ser Phe Pro Pro Thr Ser Ile Asp Tyr Phe
            20                  25                  30
Cys Tyr Pro Trp Arg Gly Val Asp Gly Ser Gly Ala Asn Lys Asp Asp
        35                  40                  45
Gln Asp Ser Asn Ala Leu Ala Tyr Leu Leu Met Ser Asp Phe Lys Asn
    50                  55                  60
Pro Arg Leu
65

<210> 22817
<211> 72
```

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (34)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22817
Pro Ser Leu Leu Gly Val Ala Trp Leu Ile Phe Ser Lys Asp Phe Glu
1 5 10 15
Glu Phe Ala Asp Ser Pro Leu Gly Cys Ser Asn Leu Leu Val Ala Ile
20 25 30
Cys Xaa Lys Lys Pro Val Asn Lys Phe Cys Phe Thr Phe Ser Gln Phe
35 40 45
Cys Gly Asn Thr Ala Arg Phe Lys Phe Arg Phe Gln Ile Gly His Phe
50 55 60
Pro Ile Gly Ile Asn Gln Ser Leu
65 70

<210> 22818
<211> 105
<212> PRT
<213> A.fumigatus

<400> 22818
Ser Phe His Gly Arg Gly Glu Glu Phe Asp Ala Ser Val Gln Met Asn
1 5 10 15
Val Thr Thr Leu Ser Val Arg Tyr Met Leu Lys Pro Phe Lys Pro Gly
20 25 30
Asp Lys Leu Ser Asp His Ala Val Pro Ile Gly Val Val Met Gln Gln
35 40 45
Leu Gln Thr Gln Leu Ala Glu Tyr Arg Ala Leu Lys Glu Gln Leu Ala
50 55 60
Val Gly Gly Ala Gly Ile Thr Gly Val Ser Ser Ser Ser Pro Gly Ala
65 70 75 80
Glu Gly Gln Asp Thr Gly Glu Ser Asp Pro Ser Ser Ala Ser Ser Ser
85 90 95
Phe Leu Gln Leu Ala Thr Ser Ser Glu
100 105

<210> 22819
<211> 80
<212> PRT
<213> A.fumigatus

<400> 22819
Asp Glu Thr Gln Glu Glu Lys Thr Pro Arg Tyr Thr Pro Tyr Val Ser
1 5 10 15
Pro Leu Arg Trp Phe Lys Ala Tyr Arg Tyr His Pro Arg Phe Thr Glu
20 25 30
Asn Val Ser Gly Gly Phe Arg Ser Leu Thr Tyr Ser His Asn Ile Asp
35 40 45
Ser Glu Lys Tyr Leu Cys Ser Tyr Lys Ala Thr Gly Gly Val Cys Asn
50 55 60
Asp Arg Ser Cys Glu Leu Gln His Phe Arg Asp Ile Thr Leu Ser Arg

65 70 75 80

<210> 22820
<211> 326
<212> PRT
<213> A.fumigatus

<400> 22820
Met Cys Ser Ala Ala Pro Thr Ser Glu Thr Pro Pro Pro Leu Leu Asn
1 5 10 15
Gln Leu Ile Pro Ala Gly His Cys Ala Cys Arg Ser Ala Thr Ile Phe
20 25 30
Ser Cys Asp Ser Cys Leu Gln Cys Ser Ala Ser Thr Leu Pro Pro Ser
35 40 45
Pro Ser Pro Pro His Ile Thr Phe Asp Pro Asn Glu Tyr Ser Tyr Asn
50 55 60
Glu Thr Gln Cys His Ser Phe Phe Pro Gly Leu Phe Glu Asp Pro Thr
65 70 75 80
Arg Ala Gln Thr Phe Trp Gln Ala Lys Asn Gly Ile Arg Arg Ala Asp
85 90 95
Leu Asp Asn Val Gln Met Met Asn Gly Met Val Arg Ala Ala Val Tyr
100 105 110
Lys Gly Arg Leu Tyr Val Leu Thr Ala Leu Ala Arg Gly Glu Asp His
115 120 125
Arg Arg Lys Ile Ile Gly Val Leu Ser Ser Ile His Arg Ala Leu Ile
130 135 140
Ser Ala Ser Asp Leu Ala Val Ile Pro Asp Thr Glu Phe Ile Phe Ser
145 150 155 160
Val Glu Asp Lys Met Glu Asp Ile Ala Gly Pro Gly His Pro Leu Trp
165 170 175
Val Leu Ala Arg Lys Pro His Glu Glu Ser Val Trp Leu Met Pro Asp
180 185 190
Phe Gly Phe Trp Ser Trp Gly His Leu Asp Ser Gln Ile Arg Pro Tyr
195 200 205
Asp Gln Val Val Glu His Val Arg Gln Arg Glu Val Pro Trp Asp Gln
210 215 220
Lys Arg Asp Lys Leu Val Trp Arg Gly Lys Leu Ser Phe Ala Pro Lys
225 230 235 240
Leu Arg Arg Thr Leu Leu Glu Val Ala Arg Gly Tyr Pro Trp Gly Asp
245 250 255
Val Arg Glu Val Glu Trp Arg Asn Lys Ala Asn Phe Leu Ser Met Glu
260 265 270
Glu His Cys Asp Tyr Lys Phe Ile Ala His Val Glu Gly Arg Ser Tyr
275 280 285
Ser Ala Ser Leu Lys Tyr Arg Gln Ala Cys Gln Ser Val Val Val Ile
290 295 300
His Lys Leu Gln Tyr Ile Gln His His His Tyr Leu Leu Val Ser Ser
305 310 315 320
Gly Pro Gln Gln Pro Phe
325

<210> 22821
<211> 73
<212> PRT
<213> A.fumigatus

<400> 22821
Leu Gln Ile Leu Arg His Ile Gly Ile Ile Val Asp His Gly Lys Ser
1 5 10 15
Thr Leu Thr Asp Ser Met Ile Gln Arg Ala Gly Ile Ile Ser Ala Ala
20 25 30
Lys Ala Gly Glu Gly Arg Tyr Met Asp Thr Arg Pro Asp Glu Gln Asp
35 40 45
Arg Gly Ile Thr Ile Lys Ser Thr Ala Ile Ser Leu Tyr Ala Lys Phe
50 55 60
Pro Asp Pro Glu Asp Leu Lys Glu Ile
65 70

<210> 22822
<211> 71
<212> PRT
<213> A.fumigatus

<400> 22822
Asn Leu Gly Cys Ala Phe Phe Phe Pro Tyr Cys Cys Pro Ala Met Ile
1 5 10 15
Ile Thr Tyr Tyr Cys Pro Ser Asp Phe Ser Ser Arg Leu Thr Ala Tyr
20 25 30
Lys Ala Leu Glu Val Asp Thr Arg Tyr Leu Arg Ala Pro His Asp Cys
35 40 45
Leu Val Ser Val Pro Cys Ile Ser Phe Leu Asn Leu Ala Met Gln Ile
50 55 60
Arg Thr His Leu Leu Thr Asp
65 70

<210> 22823
<211> 220
<212> PRT
<213> A.fumigatus

<400> 22823
Leu Lys Phe Asn Asn Thr Gly Ser Ile Val Arg His Phe Cys Gly Asp
1 5 10 15
His Pro Gly Trp Pro His Thr Cys Pro His Ala Phe Ala Met Gly Arg
20 25 30
Lys Pro Asn Gln Leu Ile Val Glu Phe Phe Ile Arg Gly Gln Lys Leu
35 40 45
Glu Asp Ala Ser Asn Arg Tyr Gln His Thr Cys Arg Ala Cys Gly Glu
50 55 60
Lys Phe Pro Lys Gly Arg Ile Asp Ser Leu Thr Asn His Leu Val Lys
65 70 75 80
Lys Cys Gln Ala Ile Pro Leu Arg Asp Arg Gln Arg Val Leu Leu Arg
85 90 95
Leu His Glu Leu Pro Asp Leu Ala Asp Gly Asp Gln Asn Lys Asp Pro
100 105 110
Asn Leu Ala Gly Gln Gly Lys Gly Lys Ser Val Asn Leu Pro Tyr Thr
115 120 125
Thr Gly Gln Asn Phe Asp Gly Leu Asn Val Leu Ala Glu Ala Ser Arg
130 135 140
Gln Val Gly Ala Ser Asp Gln Thr Lys Arg Gly Gly Pro Ala Tyr Ala
145 150 155 160
Gln Ser Val Thr Val Gly Gly Lys Thr Val Val Val Asp Pro Ala Leu

```
                165                 170                 175
Glu Ala Glu Gly Phe Gln Gly His Pro Thr Gln Pro Glu His Ile Glu
            180                 185                 190
Glu Asp Ile Lys Pro Pro Gly Lys Ile Leu Phe Phe Pro Leu Cys Pro
        195                 200                 205
His His Glu Gly Gln Asp Arg Leu Ile Phe Ala His
    210                 215                 220

<210> 22824
<211> 268
<212> PRT
<213> A.fumigatus

<400> 22824
Ser Arg Ser Cys Ser Ile Ala Arg Pro Leu Met Val Val Ala Arg Tyr
1               5                   10                  15
Ser Ile Ile Trp Ser Pro Ala Glu Asn Gly Ile Gln Arg Ser Ile Phe
            20                  25                  30
Pro Ser Val Thr Thr Thr His Ala Val His Pro Leu Ile Leu Phe Gln
        35                  40                  45
Lys His Phe Lys Gln Lys Ser Leu Ile Ile Leu Arg Ser Cys Asn Glu
    50                  55                  60
Leu Leu Arg Arg Leu Ser Arg Ala Glu Asp Thr Val Phe Cys Gly Arg
65                  70                  75                  80
Val Phe Ile Phe Leu Phe Gln Ser Phe Pro Leu Gly Asp Lys Ser Ala
                85                  90                  95
Val Asn Leu Arg Gly Glu Tyr His Thr Glu Asn Val Thr Thr Phe Asp
            100                 105                 110
Glu Ile Thr Lys Ser Gly Ala Lys Glu Ser Asp Asp Met Asp Val Glu
        115                 120                 125
Met Pro Asp Ala Lys Glu Thr Leu Thr Ala Thr Glu Ala Leu Gly His
    130                 135                 140
Asp His Asp Gly Gln Pro Pro Pro Ser Ala Ser Ala Ser Gln Thr Leu
145                 150                 155                 160
Val Gln Glu Gln Ala Lys Ile Pro Lys Leu Ile Val Ser Lys Thr Glu
                165                 170                 175
Asp Lys Asp Ser Glu Lys Ala Val Asp Leu Asn Ala Leu Tyr Pro Val
            180                 185                 190
Phe Trp Gly Leu Gln Thr Tyr Phe Ser Ala Pro Thr Lys Val Phe Asp
        195                 200                 205
Ser His His Phe Ser Ser Phe Met Thr Gly Leu Glu Asn Thr Leu Ile
    210                 215                 220
Ala Phe Lys Asn Ile Arg Thr Asp Leu Glu Asn Gln Ser Ala Ser Lys
225                 230                 235                 240
Thr Ala Glu Glu Ile Arg Lys Ser Thr Lys Arg Lys Arg Ser Val Asp
                245                 250                 255
Gly Gln Lys Ile Ala Ser Ser Phe Asn Pro Ser Ile
            260                 265

<210> 22825
<211> 95
<212> PRT
<213> A.fumigatus

<400> 22825
Val Val Val Thr Glu Gly Asn Ile Asp Leu Cys Ile Pro Phe Ser Ala
```

```
1               5                   10                  15
Gly Leu Gln Ile Ile Glu Tyr Leu Ala Thr Thr Ile Asn Gly Leu Ala
            20                  25                  30
Ile Glu Gln Leu Leu Asp Gln Pro Lys Tyr Gln Thr Gly Leu Ala Leu
        35                  40                  45
Phe Tyr Ala Gln Ser Ala Ser Cys Ser Val Thr Arg Leu Asp Asp Trp
    50                  55                  60
Gly Gln Pro Leu Ser Glu Lys Ile Glu Ile Met Ser Ser Lys Phe His
65                  70                  75                  80
Met Arg Met Asn Glu Gly Ser Ser Ile Val Val Phe Ala Tyr Arg
                85                  90                  95

<210> 22826
<211> 114
<212> PRT
<213> A.fumigatus

<400> 22826
Ala Phe Asp Asp Met Leu Lys Glu Ile Cys Ala Ala Leu Leu Ser Ala
1               5                   10                  15
Asp Val Tyr Val Arg Leu Val Gln Thr Leu Arg Lys Ser Ile Lys Ser
            20                  25                  30
Ser Val Asn Phe Ser Ser Leu Pro Pro Ala Val Asn Lys Lys Arg Leu
        35                  40                  45
Ile Gln Lys Ala Val Phe Asp Glu Leu Val Ala Leu Val Asp Pro His
    50                  55                  60
Ala Glu Pro Phe Arg Pro Lys Lys Gly Arg Ser Asn Val Ile Met Phe
65                  70                  75                  80
Val Gly Leu Gln Gly Ala Gly Lys Thr Thr Thr Cys Thr Lys Leu Ala
                85                  90                  95
Arg His Tyr Gln Met Arg Gly Cys Leu His His Gly Ala Gly Arg Thr
            100                 105                 110
Arg Ala


<210> 22827
<211> 270
<212> PRT
<213> A.fumigatus

<400> 22827
Leu Lys Tyr Ser Ala Leu Leu Ala Leu Arg Asp Glu Asp Leu Lys Asn
1               5                   10                  15
Val Tyr His Asn Tyr Arg Ala Ser Leu Pro Leu Arg Arg Ser Leu Gly
            20                  25                  30
Leu Pro Val Tyr Leu Pro Ile Ser Pro Pro Pro Ala Pro Ser Thr Ser
        35                  40                  45
Ser Thr Asn Asn Lys Thr Thr Pro Phe Arg Glu Ala Val Lys Ser Gln
    50                  55                  60
Asn Leu Ser Arg Ala Asn Phe Gln Leu Val Arg Arg Ala Ala Tyr Asp
65                  70                  75                  80
Val Arg Arg Met Ile Pro Phe Thr Leu Ile Leu Ile Val Cys Gly Glu
                85                  90                  95
Met Thr Pro Leu Ala Val Leu Ala Leu Gly Asn Ala Val Thr Pro Phe
            100                 105                 110
Thr Cys Arg Val Pro Gln Gln Ile Lys Lys Ala Arg Leu Gln His Ala
```

```
        115                 120                 125
Ala Arg Lys Arg Ala Ala Leu Ala Ala His Gln Ala Gln Ala Arg Gly
    130                 135                 140
Ser Val Thr Gly Pro Ala Ala Gly Ser Asp Ala Glu Arg Glu Leu Leu
145                 150                 155                 160
Ala Arg Glu Phe Ala His Pro Gly Trp Val Glu Lys Ala Ser Ala Gln
                165                 170                 175
Glu Ile Leu Gln Ala Cys Ala Ala Leu Gly Leu Val Arg Thr His Thr
            180                 185                 190
Arg Pro Ala Ala Leu Val Pro Trp Leu Tyr Arg Pro Arg Leu Arg Arg
        195                 200                 205
Tyr Val Glu Tyr Leu Ala Leu Asp Asp Glu Leu Ile Arg Gln Gly Gly
    210                 215                 220
Gly Val Pro Ala Met Glu Ala Ala Glu Val Ser Ile Ala Val Glu Glu
225                 230                 235                 240
Arg Gly Gly Val Gly Val Ala Asp Gly Lys Glu Tyr Trp Glu Ala Glu
                245                 250                 255
Arg Glu Glu Arg Arg Trp Leu Glu Arg Trp Leu Gly Arg Ala
            260                 265                 270
```

<210> 22828
<211> 204
<212> PRT
<213> A.fumigatus

<400> 22828

```
Arg Pro Gln Glu Arg Leu Pro Gln Leu Pro Arg Leu Ala Ser Pro Pro
1                   5                   10                  15
Pro Phe Ser Arg Ser Thr Arg Leu Pro Pro His Leu Ala Ser Pro Gly
            20                  25                  30
Thr Leu His Leu Leu His Gln Gln Gln Asp His Thr Phe Pro Arg Ser
        35                  40                  45
Arg Glu Ile Pro Lys Pro Gln Pro Arg Gln Leu Pro Ala Cys Pro Pro
    50                  55                  60
Arg Arg Leu Arg Arg Pro Pro His Asp Pro Phe His Pro Asn Pro Asp
65                  70                  75                  80
Arg Leu Arg Arg Asp Asp Pro Thr Arg Arg Pro Gly Pro Arg Gln Arg
                85                  90                  95
Arg His Pro Phe His Leu Pro Arg Pro Ala Ala Asp Gln Glu Gly Pro
            100                 105                 110
Pro Ala Ala Arg Gly Pro Glu Thr Arg Gly Pro Arg Arg Pro Pro Gly
        115                 120                 125
Ala Gly Ala Arg Leu Arg Tyr Trp Pro Arg Gly Arg Leu Arg Arg Arg
    130                 135                 140
Ala Arg Ala Ala Gly Pro Arg Ile Cys Thr Ser Arg Leu Gly Arg Glu
145                 150                 155                 160
Gly Leu Ser Ala Gly Asp Pro Ala Gly Val Cys Gly Val Gly Ala Cys
                165                 170                 175
Ala Asp Ala Tyr Pro Ala Arg Gly Thr Gly Ala Leu Val Val Ser Ala
            180                 185                 190
Ala Ala Thr Ala Val Cys Gly Val Pro Gly Ala Gly
        195                 200
```

<210> 22829
<211> 191
<212> PRT

<213> A.fumigatus

<400> 22829
Ala Leu Pro Ser His Arg Ser Asn His Arg Leu Ser Ser Leu Ser Ala
1 5 10 15
Ser Gln Tyr Ser Leu Pro Ser Ala Thr Pro Thr Pro Pro Arg Ser Ser
20 25 30
Thr Ala Met Leu Thr Ser Ala Ala Ser Met Ala Gly Thr Pro Pro Pro
35 40 45
Cys Arg Ile Asn Ser Ser Ser Ser Ala Arg Tyr Ser Thr Tyr Arg Arg
50 55 60
Ser Arg Gly Arg Tyr Asn Gln Gly Thr Ser Ala Ala Gly Arg Val Cys
65 70 75 80
Val Arg Thr Ser Pro Asn Ala Ala His Ala Cys Arg Ile Ser Cys Ala
85 90 95
Glu Ala Phe Ser Thr Gln Pro Gly Cys Ala Asn Ser Arg Ala Ser Ser
100 105 110
Ser Arg Ser Ala Ser Glu Pro Ala Ala Gly Pro Val Thr Glu Pro Arg
115 120 125
Ala Cys Ala Trp Trp Ala Ala Arg Ala Ala Arg Phe Arg Ala Ala Cys
130 135 140
Cys Arg Arg Ala Phe Leu Ile Cys Cys Gly Thr Arg Gln Val Lys Gly
145 150 155 160
Val Thr Ala Leu Pro Arg Ala Arg Thr Ala Ser Gly Val Ile Ser Pro
165 170 175
Gln Thr Ile Arg Ile Arg Val Lys Gly Ile Met Arg Arg Thr Ser
180 185 190

<210> 22830
<211> 87
<212> PRT
<213> A.fumigatus

<400> 22830
Pro Pro Pro Pro Pro Trp Pro Gly Arg Leu Pro Pro Ala Glu Ser Thr
1 5 10 15
His His Pro Ala Pro Gly Thr Pro His Thr Ala Val Ala Ala Ala Asp
20 25 30
Thr Thr Arg Ala Pro Val Pro Arg Ala Gly Tyr Ala Ser Ala Gln Ala
35 40 45
Pro Thr Pro His Thr Pro Ala Gly Ser Pro Ala Leu Arg Pro Ser Arg
50 55 60
Pro Asn Arg Asp Val Gln Ile Arg Gly Pro Ala Ala Arg Ala Arg Arg
65 70 75 80
Arg Ser Arg Pro Arg Gly Gln
85

<210> 22831
<211> 243
<212> PRT
<213> A.fumigatus

<400> 22831
Pro Gly Cys Cys Ser Ser Leu Gly Ala Phe Glu Tyr Leu Thr Ile Gly
1 5 10 15
His Thr Val Phe Ala Ile Gly Arg Phe Leu Thr Ala Phe Met Gln Trp

```
            20                  25                  30
Phe Leu Lys Pro Arg Trp Val Leu Met Leu Ser Tyr Ile Gly Met Ile
        35                  40                  45
Val Phe Ala Val Leu Cys Met Lys Thr Thr Gly Ser Thr Ala Val Ala
    50                  55                  60
Met Ser Leu Met Val Tyr Leu Phe Glu Ser Gly Ala Phe Ser Thr Ile
65                  70                  75                  80
Phe Ala Leu Ser Leu Arg Gly Thr Ala Arg His Thr Lys Thr Ala Ala
                85                  90                  95
Ser Leu Leu Ala Thr Ala Ile Ser Gly Gly Ala Phe Phe Pro Phe Ala
            100                 105                 110
Gln Tyr Ala Ala Glu Leu Ser Gly Gly Val Ser Tyr Ser Tyr Ser Val
        115                 120                 125
Leu Val Ala Leu Phe Cys Ala Gly Ala Ile Phe Pro Leu Tyr Leu Asn
    130                 135                 140
Phe Val Pro Ala Ala Lys Lys Gln Val Asp Pro Val Pro Asp Glu Tyr
145                 150                 155                 160
Leu Arg Arg His Arg Arg Arg Arg Ser Cys Val Ala Ala Asn Lys Thr
                165                 170                 175
Leu Ala Pro Val Pro Arg Glu Lys Asp Asn Pro Ser Val Gly Gly Val
            180                 185                 190
Leu Ser Arg Arg Arg Ser Val Leu Ser Asp Pro Leu Pro Thr Ile Asn
        195                 200                 205
Leu Pro Glu Thr Thr Tyr Asn Pro Met Ser Ser Pro Ser Arg Thr Asn
    210                 215                 220
Leu Pro Glu Glu Ala Val Ile Val Ile Ile Cys Gln Glu Arg Arg Arg
225                 230                 235                 240
Ala His Ala
```

<210> 22832
<211> 73
<212> PRT
<213> A.fumigatus

<400> 22832

```
Tyr Gly Glu Leu Ser Gly Cys Met Gly Phe Ser Gly Glu Gly Tyr Gln
1               5                   10                  15
Ala Tyr Leu Thr Glu Ile Asp Ser Leu Lys Lys Ala Ile Tyr Met Met
            20                  25                  30
Cys Ile Phe Asn Ser Gln Tyr Ser Gly Ile Phe Ile His Arg Gly Phe
        35                  40                  45
Ile Phe Gly Tyr Thr Phe Thr Leu Thr Pro Glu Ser Phe Met Tyr Met
    50                  55                  60
Ser Ala Arg Cys Thr Ala Gln Tyr Phe
65                  70
```

<210> 22833
<211> 128
<212> PRT
<213> A.fumigatus

<400> 22833

```
Thr Ala Gly Phe Ser Val Ala Pro Leu Gly Asp Ile His Pro Ala Ile
1               5                   10                  15
Glu Val Ser Phe Leu Ala Met Met Tyr Ile Ser Ser Asp Phe Pro Thr
```

```
            20                  25                  30
Ala Ile Thr Met Arg Lys Thr Asn Val Tyr Glu Glu Arg Ser Val Gly
        35                  40                  45
Val Tyr Glu His Asp Ser Val Ser Glu Ala Glu Ser Arg Asn Gly Lys
    50                  55                  60
His Val Gly Leu Ala Val His Ile Gln Arg Gln Leu Gly Phe Asp Leu
65                  70                  75                  80
Trp Tyr Val Met Leu Glu Ile Phe Leu Ile Ala Ile Thr Glu Gly Gly
                85                  90                  95
Arg Leu Gln Lys Ala Ala Asp Glu Thr Thr Phe Ser Leu Phe Ser Val
            100                 105                 110
Pro Phe Glu Ile Val Ser Tyr Gly Thr Ala Gly Leu Ser Gly Ile Ser
        115                 120                 125
```

<210> 22834
<211> 73
<212> PRT
<213> A.fumigatus

<400> 22834

```
Leu Ser Thr Ser Ser Leu Cys Asp Ala Thr Ala Thr Met Ala Gln Thr
1               5                   10                  15
Leu Ala Ala Ala Ser Leu Val Leu Val Pro Leu Val Thr Ala Gln Gln
            20                  25                  30
Ile Gly Ser Ile Ala Glu Asn His Pro Glu Leu Lys Thr Tyr Arg Cys
        35                  40                  45
Gly Ser Gln Ala Gly Cys Val Ala Gln Ser Thr Ser Val Val Leu Asp
    50                  55                  60
Ile Asn Ala His Trp Ile Phe Thr Thr
65                  70
```

<210> 22835
<211> 77
<212> PRT
<213> A.fumigatus

<400> 22835

```
Val Arg His Glu Phe Cys Asn Leu Glu Thr Pro Phe Glu Ala Lys Ala
1               5                   10                  15
His Asp Gln Ala Glu Ser Ala Ser His Arg Thr Arg Tyr Lys Thr Phe
            20                  25                  30
Arg Gln Thr Gln Ser Val Leu Arg Leu Ser Ser Asp Ser Ser Pro Met
        35                  40                  45
Ile Val Gly Ala Lys Asp Asn Arg Gly Arg Gln Pro Ile Gln Gln Ile
    50                  55                  60
Phe Leu Tyr Leu Leu Ser Met Ile Pro Leu Ala Leu Leu
65                  70                  75
```

<210> 22836
<211> 127
<212> PRT
<213> A.fumigatus

<400> 22836

```
Pro Ala Arg Pro Ile Arg Val Ser Ala Ser Thr Thr Arg Ile Ala Gly
1               5                   10                  15
```

```
Glu Thr Pro Val Val Arg Tyr Ala Arg Ala Ser Ile Val Val Phe Pro
            20                  25                  30
Thr Asp His Gln Ala Tyr Gln Trp Tyr Arg Thr Ser Asp Thr Ser Trp
        35                  40                  45
Arg Ala His Glu Ile Tyr Gly Asp Asn Pro Pro Lys Trp Asn Phe Ala
    50                  55                  60
Ala Gln Arg Pro Ala Asp Leu Val Val Ile Asn Ile Gly Thr Asn Asp
65                  70                  75                  80
Asn Asn Pro Ala Asn Asn Val Ser Ser Thr Asp Tyr Tyr Asn Asp Tyr
                85                  90                  95
Ile Thr Leu Val Gly Asn Ile His Lys Ile Trp Pro Lys Ala Asp Ile
            100                 105                 110
Val Leu Met Val Ser Leu Leu Gly Lys Leu Asp Met Val Gly Cys
        115                 120                 125
```

<210> 22837
<211> 161
<212> PRT
<213> A.fumigatus

<400> 22837

```
Ser Gly Gly His Gln His Arg His Lys Arg Gln Gln Pro Gly Glu Gln
1               5                   10                  15
Cys Ile Glu His Arg Leu Leu Gln Arg Leu His His Ser Cys Gly Gln
            20                  25                  30
Tyr Ser Gln Asp Leu Ala Gln Gly Arg Tyr Arg Ser Asp Gly Glu Ser
        35                  40                  45
Pro Arg Gln Ile Gly Tyr Gly Arg Met Leu Met Thr Gln Ser Leu Trp
    50                  55                  60
Gly Gly Phe Gly Ala Ser Gly Asp Thr Tyr Val Gln Gly Pro Leu Trp
65                  70                  75                  80
Val Asp Glu Ile Lys Arg Val Tyr Gln His Tyr Glu Lys Gln Gly Phe
                85                  90                  95
Ile His Tyr Phe Asp Thr Ala Gly Ile Leu Gln His Asn Asp Ile Ala
            100                 105                 110
Pro Gln Trp His Pro Thr Asp Val Gly His Leu Lys Ile Ala Ala His
        115                 120                 125
Leu Met Gln Trp Val Lys Leu Lys Phe Gly Trp Glu Phe Gly Ala Thr
    130                 135                 140
Gly Pro Glu Val Tyr His Gly Thr Leu Tyr Trp Asn Asp Gln Ala Asn
145                 150                 155                 160
Tyr
```

<210> 22838
<211> 63
<212> PRT
<213> A.fumigatus

<400> 22838

```
Asp Ala Phe Pro Ser Ser Pro Arg Arg Glu Glu Trp Lys Thr Arg Trp
1               5                   10                  15
Phe Val Leu Asp Gly Trp Leu Asn Leu Val Tyr Leu Phe Asp Ile Gly
            20                  25                  30
Phe Val Ala Tyr Leu Trp Arg Pro Thr Ala Asn Asn Arg Arg Phe Ala
        35                  40                  45
```

```
Met Ser Asp Glu Val Cys Leu Gly Gln Arg Phe His Gly Ala Arg
    50                  55                  60

<210> 22839
<211> 203
<212> PRT
<213> A.fumigatus

<400> 22839
Arg Leu Leu Val Leu Arg Gly Ser Ala Gly Ser Gly Lys Thr Thr Thr
1               5                  10                  15
Leu Ser Leu Leu Ser Asp Lys Leu Gly Phe Asp Val Leu Glu Trp Arg
            20                  25                  30
Asn Pro Ser Gly Ser Glu Phe Ala Ala Lys Gly Phe Thr Ser Thr Thr
        35                  40                  45
Ala Gln Phe Glu Glu Phe Leu Thr Arg Gly Asn Arg Phe Arg Gly Leu
    50                  55                  60
Glu Phe His Gly Ala Thr Gly Ser Ser Ala Ser Lys Phe Asn Ser Ser
65                  70                  75                  80
Asp His Met Thr Pro Arg Val Ile Leu Ile Glu Glu Phe Pro Thr Val
                85                  90                  95
Phe Asp Gly Asp Ser Pro Gly Leu Ala Ala Phe Arg Leu Ser Leu Gln
            100                 105                 110
Arg Tyr Leu Ser Val Ser Ser Ser Pro Arg Ser Asn Ile Arg Asn Asp
        115                 120                 125
Ile Glu Arg His Gly Ser Ser Pro Val Val Ile Ile Val Ser Glu Thr
    130                 135                 140
Met Leu Asn Thr Glu Gly Ser Tyr Ser Asp Asn Phe Thr Ala His Lys
145                 150                 155                 160
Leu Leu Gly Pro Asp Ile Leu Ser His Pro Cys Thr Thr Ile Val Asp
                165                 170                 175
Phe Asn Ala Ile Ala Pro Thr Phe Met Phe Lys Ala Leu Asn Leu Val
            180                 185                 190
Leu Glu Lys His Ile Arg Arg Tyr Arg Ser Ala
        195                 200

<210> 22840
<211> 285
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (184)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22840
Val Gly Lys Val Ala Ala Ala Gly Ser Val Ala Gly Leu Leu Ser Leu
1               5                  10                  15
Leu Tyr Tyr Val Pro Pro Arg His Gly Ser Leu Gln Leu Pro His Ala
            20                  25                  30
Phe Tyr Gln Leu Gln Ala Tyr Leu Pro Ser Leu His Arg Leu Leu Pro
        35                  40                  45
Ser Ser Met Thr Gly Met Arg Leu Pro Gln Gly Gly Phe Ala Asn Gly
    50                  55                  60
Phe Ala Ala Ala Ala Leu Leu Ser Ala Ile Ile Thr Gly Ile Val Gly
```

```
65                  70                  75                  80
Met Gln Val Ser Lys Leu Thr Lys Ile Asp Ser Gly Phe Thr Arg Tyr
                85                  90                  95
Pro Pro Arg Ile Lys Ser Lys Pro Ser Pro Lys Ala Asp Pro His Ser
            100                 105                 110
Ile Pro Gly Phe Leu Asn Pro Lys Asp Tyr Lys Thr Leu Pro Leu Val
        115                 120                 125
Gln Lys Ala Leu Leu Ala Pro Asn Val Tyr Arg Phe Val Phe Gln Leu
    130                 135                 140
Pro Ser Ala Thr Asp Ile Val Gly Leu Pro Val Gly Gln His Val Ala
145                 150                 155                 160
Ile Lys Ala Thr Val Asp Gly Gln Thr Val Thr Arg Ser Tyr Thr Pro
                165                 170                 175
Thr Ser Asn Asn Leu Asp Arg Xaa Tyr Leu Glu Leu Val Ile Lys Cys
            180                 185                 190
Tyr Pro Asp Gly Leu Leu Thr Gly Gln Tyr Leu Ala Asn Leu Gln Val
        195                 200                 205
Gly Asp Lys Val His Phe Arg Gly Pro Lys Gly Ala Met Lys Tyr Gln
    210                 215                 220
Arg Asn Leu Cys Lys Lys Ile Gly Met Ile Ala Gly Gly Thr Gly Ile
225                 230                 235                 240
Thr Pro Met Tyr Gln Leu Ile Arg Ala Ile Cys Glu Asp Asp Lys Asp
                245                 250                 255
Thr Thr Glu Ile Ser Leu Val Tyr Ala Asn Arg Ser Glu Gly Asp Ile
            260                 265                 270
Leu Leu Arg Glu Glu Leu Ala Ala Ala Gln Arg Gln Gly
        275                 280                 285

<210> 22841
<211> 248
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (143)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22841
Ser Ala Pro Pro Ala Ala Val Leu His Asp Arg His Ala Pro Ala Thr
1               5                   10                  15
Gly Gly Leu Arg Gln Trp Ile Arg Ser Arg Ser Pro Thr Leu Arg Asp
            20                  25                  30
His His Arg His Arg Gly Asp Ala Ser Val Glu Thr Asp Gln Asp Arg
        35                  40                  45
Leu Arg Leu Tyr Ser Ile Pro Pro Ser Tyr Gln Glu Gln Ala Glu Ser
    50                  55                  60
Gln Gly Gly Ser Ser Gln His Ser Arg Leu Pro Gln Pro Gln Gly Leu
65                  70                  75                  80
Gln Asp Ala Pro Ser Gly Ala Glu Ser Pro Pro Arg Ala Gln Arg Leu
                85                  90                  95
Pro Ile Arg Leu Pro Thr Ala Ile Ser His Arg Tyr Arg Arg Pro Pro
            100                 105                 110
Gly Arg Pro Ala Arg Arg His Lys Ser His Arg Arg Trp Pro Asn Arg
        115                 120                 125
His Thr Ile Val His Ala Asn Leu Gln Gln Pro Arg Pro Arg Xaa Pro
```

```
    130                 135                 140
Arg Ala Arg His Gln Met Leu Pro Gly Arg Pro Ser Asp Arg Pro Val
145                 150                 155                 160
Pro Arg Gln Pro Ala Ser Arg Arg Gln Ser Ala Leu Pro Arg Pro Gln
                165                 170                 175
Arg Arg Asn Glu Val Pro Ala Gln Pro Val Gln Glu Asn Arg His Asp
            180                 185                 190
Arg Arg Arg His Arg His His Pro His Val Ser Ala Asp Pro Gly Asn
        195                 200                 205
Leu Arg Gly Arg Gln Arg Tyr His Arg Asp Gln Pro Gly Val Cys Gln
    210                 215                 220
Pro Gln Arg Gly Gly Tyr Ser Val Ala Arg Gly Ala Gly Arg Cys Ser
225                 230                 235                 240
Thr Pro Gly Leu Lys Val Met Arg
                245
```

<210> 22842
<211> 71
<212> PRT
<213> A.fumigatus

<400> 22842

```
Ala Ser Val Gln Met Gly Val Ser Ser Leu Lys Ala Cys Leu Leu Gly
1               5                   10                  15
Cys Lys Ile Ser Val Asn Ser Asn Ser Tyr Pro Glu Asp Val Asp Asp
            20                  25                  30
Val Ile Leu Arg Leu Phe Pro Gly Glu Val Ala Thr Tyr Thr Leu Ala
        35                  40                  45
Gly Gly Asn Pro Glu Ala Ala Ser Arg Ser Gly Cys Gln Pro Thr Arg
    50                  55                  60
Ser Phe Ala Ser Gly Ser Gln
65                  70
```

<210> 22843
<211> 125
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (77)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22843

```
Asn Ser Phe Arg Leu Asp Asn Val Ser Lys Asp Ser Thr Asp Trp Ile
1               5                   10                  15
Gly Pro Lys Pro Gly Gly Ser Pro Gly Leu Asp Cys Leu Pro Ile Gly
            20                  25                  30
Ala Ala Ser Glu Ala Lys Tyr Arg Arg Phe Thr Glu Arg Phe Arg Pro
        35                  40                  45
Glu Glu Gln Leu Leu Leu Lys Asp Ile Val Tyr Gln Ile Met Arg Ser
    50                  55                  60
Tyr Leu Asn Ile Pro Leu Gly Ser Leu Glu Asp Thr Xaa Ser Gly Leu
65                  70                  75                  80
Leu Phe Phe Thr Ala Leu Ala Gly Asn Leu Ala Arg Val Glu Asp Leu
                85                  90                  95
```

```
Val Lys Val Ala His Ala Ala Ser Ser Glu Ser Ala His Trp Leu Cys
            100                 105                 110
Lys Tyr Val Phe Thr Thr Arg Gly Trp Lys Asn Gln Arg
        115                 120                 125

<210> 22844
<211> 158
<212> PRT
<213> A.fumigatus

<400> 22844
Lys Val Arg Gln Gly Gln Leu Trp Ile Pro Glu Ala Trp Asn Thr Asp
1               5                   10                  15
Ser Lys Gly Ser Phe Arg Ser Asp Cys Phe Ala Arg Phe Ser Ile Ser
            20                  25                  30
Leu Ser Ser Met Leu Phe Thr Ala Val Thr Leu Ala Leu Leu Gly Gln
        35                  40                  45
Ala Leu Ala Gly Pro Val Glu Leu Glu Glu Arg Gln Ser Ser Cys Pro
    50                  55                  60
Asn Ile His Val Phe Gly Ala Arg Glu Thr Thr Ala Pro Thr Gly Tyr
65                  70                  75                  80
Gly Ser Ser Ser Thr Ala Val Asn Leu Ile Leu Asn Ala Tyr Pro Gly
                85                  90                  95
Ser Thr Ser Glu Ala Ile Asn Tyr Pro Ala Cys Gly Gly Gln Ser Ser
            100                 105                 110
Cys Gly Gly Val Ser Tyr Ala Asn Ser Val Val Ala Gly Ile Asn Ala
        115                 120                 125
Val Val Ser Ala Val Asn Ser Phe Asn Gln Arg Cys Pro Asn Thr Gln
    130                 135                 140
Leu Val Leu Val Gly Tyr Ser Gln Val Phe Val Ser Pro Asp
145                 150                 155

<210> 22845
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22845
Asn Ile Gln Ser Arg Leu Ile Leu Leu Gln Gly Gly Gln Ile Met Asp
1               5                   10                  15
Asn Ala Leu Cys Gly Gly Gly Asp Pro Asn Gln Gly Tyr Thr Asn Thr
            20                  25                  30
Ala Val Pro Leu Ser Ser Ser Ala Val Asn Met Ile Lys Ala Ala Ile
        35                  40                  45
Phe Met Gly Asp Pro Arg Leu Cys Xaa Gly Ser Ser Arg Thr Ser Ser
    50                  55                  60
Ala Pro Ala
65

<210> 22846
<211> 204
```

<212> PRT
<213> A.fumigatus

<400> 22846
Arg Ile Phe Val Gly His Asp Gln Asp Val Asp Cys Val Cys Phe His
1 5 10 15
Pro Asn Ser Ala Tyr Val Phe Thr Gly Ser Ser Asp His Thr Val Arg
20 25 30
Met Trp Ala Val Thr Thr Gly Asn Ala Val Arg Met Phe Thr Gly His
35 40 45
Thr Gly Asn Ile Thr Ala Leu Ala Cys Ser Arg Asp Gly Lys Leu Leu
50 55 60
Ala Ser Ala Asp Asp Gln Gly Ser Ile Leu Leu Trp Asp Leu Ala Pro
65 70 75 80
Gly Arg Leu Leu Lys Arg Met Arg Gly His Gly Lys Gly Gly Ile Trp
85 90 95
Ser Leu Ser Trp Ser Val Glu Ser Thr Val Leu Val Ser Gly Gly Ala
100 105 110
Asp Gly Thr Val Arg Val Trp Asp Val Thr Gly Pro Ala Gln Asp Pro
115 120 125
Ser Gln Gly Arg Val Val Gly Asp Gly Gly Ala Gly Thr Lys Val Asp
130 135 140
Gly Gly Asn Pro Ser Ala Ala Ser Thr Gln Pro Ser Thr Ser Val Ala
145 150 155 160
Pro Gly Met Gly Lys Lys Lys Gly Lys Asp Val Val Val Thr Pro Asp
165 170 175
Gln Ile Ser Ala Phe Pro Thr Lys Lys Ser Pro Val Tyr Lys Val Lys
180 185 190
Phe Thr Asn Met Asn Leu Ile Ile Ala Gly Val Phe
195 200

<210> 22847
<211> 88
<212> PRT
<213> A.fumigatus

<400> 22847
Leu Arg Asn Tyr Leu Cys Cys Arg Lys Leu Arg Ile Pro Leu Ile Pro
1 5 10 15
Leu Phe Ser Tyr Tyr Tyr Leu Ala Gly Leu Phe Met Thr Ile Ile Thr
20 25 30
Ile Ile Asn Ala Cys Ile Ile Thr Met Gln Ser Ser Val Asn Leu Cys
35 40 45
Asn Gly Lys His Ser Arg Thr Gln Thr Pro Met Asp Leu Met Met Leu
50 55 60
Leu Ile Ala Asn Arg Gly Arg Arg Leu Asp Phe Asn Tyr Gln Met Glu
65 70 75 80
Gln Arg Glu Val Ser His Thr Leu
85

<210> 22848
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22848

```
Asn Leu Val Ile Gln Ile Ser Gln Leu Ile Asn Ile Ile Ile Ile Lys
1               5                  10                  15
Ile Ile Asn Phe Gln Tyr Phe Pro Gln Phe Ile Gln Phe Val Tyr Ile
            20                  25                  30
Ile Ile Ile Ile Val Lys Phe Ile Phe Asp Leu Ser Ile Lys Ile Leu
        35                  40                  45
Leu Phe Asn Gln Phe Leu Ser Ile Tyr Ile Phe Leu Leu Phe Ile Ile
    50                  55                  60
Ser
65
```

<210> 22849
<211> 263
<212> PRT
<213> A.fumigatus

```
<400> 22849
Ile Trp Lys Asn Ser Leu Ile Ile Phe Asp Ile Lys Pro Lys Lys Asn
1               5                  10                  15
Lys Arg Lys Leu Ile His Asn Lys Ile Ser Asp Asn Phe Leu Glu Glu
            20                  25                  30
Tyr Gly Leu Ser Ser Tyr Gln Glu Leu Asn Arg Asn Val Asp Asp Tyr
        35                  40                  45
Asn Ser Ile Tyr Glu Lys Lys Gln Lys Glu Leu Leu Thr Arg Asn Asn
    50                  55                  60
Leu Asn Asn Ile Pro Ile Glu Lys Leu Asp Gly Phe Ile Ile Gly Glu
65                  70                  75                  80
Ser Ser Leu Ile Asp Lys Ile Asn Thr Thr Asp Lys Ser Lys Asn Ile
                85                  90                  95
Lys Lys Ser Asn Ile Gln Ile Leu Thr Asn Asp Glu Lys Gln Lys Asp
            100                 105                 110
Ile Asp Arg Gln Lys Leu Ile Glu Gln Glu Asn Phe Tyr Arg Gln Ile
        115                 120                 125
Lys Asn Lys Phe Asn Asn Asn Asp Asp Asn Val Asn Lys Leu Asn Lys
    130                 135                 140
Leu Gly Lys Ile Leu Glu Ile Asn Asn Phe Asp Asn Asn Asp Val Asp
145                 150                 155                 160
Gln Leu Ala Tyr Leu Asn Asn Lys Ile Leu Gln Asn Asp Asn Ser Lys
                165                 170                 175
Ala Thr Thr Thr Leu Asp Asn Asp Leu Asp Leu Leu Leu Gly Ile Ser
            180                 185                 190
Ser Asp Gly Lys Asp Asp Val Asp Lys Val Glu Ser Asn Val Lys Gln
        195                 200                 205
Gln Asp Asp Asn Phe Asp Thr Phe Ile Asn Lys Leu Thr Ile Asn Asp
    210                 215                 220
Lys Asp Glu Thr Phe Lys Asn Glu Gln His Gln Ser Lys Leu Ser Phe
225                 230                 235                 240
Asp Lys Val Asn Lys Lys Gln Asn Gln Asn Asp Ala Lys Asp Leu Asp
                245                 250                 255
Phe Leu Asp Asp Leu Leu Gly
            260
```

<210> 22850
<211> 219
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16),(17)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22850
Gly Ala Lys Ala Ala Ile Gly Gly Leu Ser Pro Leu Gln Thr Gln Xaa
1 5 10 15
Xaa Pro Pro Ser Leu Pro Gly Val Val Val Ala Trp Ser Ala Leu Lys
20 25 30
Gln Lys Tyr Arg Glu Val Met Arg Val Ala Ala Tyr Gly Ser Pro Ser
35 40 45
Val Gln Ile His Phe Ile Tyr Leu Lys Val Asp Lys Asp Ile Leu Ile
50 55 60
Glu Arg Val Lys His Arg Asp Pro Ser Gln Tyr Met Lys Ser Gly Met
65 70 75 80
Val Gln Leu Gln Leu Gln Ala Phe Glu Glu Pro Pro Gly Glu Trp Asp
85 90 95
Ala Leu Pro Phe Asn Gly Asp Gly Pro Arg Glu Glu Val Gln Lys Thr
100 105 110
Val Phe Gln Leu Val Ser Glu Lys Leu Ala Glu Tyr Gln Gly Leu Gly
115 120 125
Tyr Ser Gly Phe Ala Cys Leu Met Thr Ile Phe Phe Phe Ile Phe Phe
130 135 140
Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Ser Gly Glu Leu Gly Ser
145 150 155 160
Val Ala Arg Ile Ala Trp Ile Ser Cys Ala Val Arg Cys Leu Trp Ser
165 170 175
Phe Arg Ala Ala His Ser Cys Phe Trp Glu His His Asp Leu Ser Leu
180 185 190
Ser Met Glu Ser Ala Ser Tyr Pro Gly Val Pro Ile Gly Cys Glu Ser
195 200 205
Leu Cys Leu Val Met Val Ile Cys Leu Leu Phe
210 215

<210> 22851
<211> 101
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22851
Arg Pro Asp Ala Ser Pro Met Gly Ala Gly Ala Glu Xaa Pro Val Ile
1 5 10 15
Ile Asp Gln Ser Arg Ile Tyr Ala Pro Pro Asp Pro Phe Glu Thr Pro
20 25 30
Ser Val Gly Val Glu Ile Pro Ala Ala Val Asn Arg Pro Arg Thr Ile
35 40 45
Thr Ala Lys Val Pro Leu Lys Glu Met Val Gly Tyr Leu Lys His Leu
50 55 60
Arg Ser Leu Ser Ala Gly Arg Gly Thr Phe Val Met Ser Val Asp Arg

```
65                  70                  75                  80
Phe Glu Leu Met Ser Ala Gln Arg Gln Asn Ala Val Leu Ala Glu Leu
                85                  90                  95
Arg Gly Gly Phe Tyr
            100
```

<210> 22852
<211> 214
<212> PRT
<213> A.fumigatus

<400> 22852

```
Val Ala Arg Val Leu Pro Ser Pro Trp Val Lys Asn Glu His Arg Gln
1               5                   10                  15
Arg Ile Tyr Glu Glu Arg Ser Ala Leu Ile Arg Ser Arg Ser Glu Gln
            20                  25                  30
Phe Ala Ile Asp Thr Phe Gly Ser Ser Ile Trp Asp Gln Ser Leu Tyr
        35                  40                  45
Lys Ala Trp Ala Gly Ile Val His Lys Leu Ile Pro Asn Leu Thr Val
    50                  55                  60
Ile Glu Arg Phe Leu Thr Ala Phe Ala Lys Arg Ile Asp Ala Glu Glu
65                  70                  75                  80
Val Ile Leu Phe Glu Arg Ser Thr Phe Leu Thr Val Thr Ser Val Ser
                85                  90                  95
Ser Glu Ile Gly Asp Met Asn Pro Ile Tyr Asp Arg His Glu Arg Leu
            100                 105                 110
Ser Asn Ile Met Lys Ala Phe Lys His Cys Ala Ala Arg Asn Thr His
        115                 120                 125
Thr Thr Pro Ala Thr Ala Gly Phe Leu Val Met His Thr Lys Thr Pro
    130                 135                 140
Gln Phe Asn Val Phe Leu Gly Arg Phe Thr Asp Asn Thr Tyr Ile Phe
145                 150                 155                 160
Met Val Val Pro Pro Gly Glu Ala Ala Tyr Asn Cys Ala Val Leu Asn
                165                 170                 175
Thr Met Leu Ala Arg Glu Gly Phe Ser Lys Ala Ala Ala Ala Gly Tyr
            180                 185                 190
Gly Asp Gly Phe Pro Leu Pro Ala Ser Asp Pro Pro Glu Ala Asn Met
        195                 200                 205
Ala Asn Gly Val Thr Ala
    210
```

<210> 22853
<211> 342
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (62),(282)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22853

```
Gly Thr Phe Asn Tyr Gly Leu Gly Ala Arg Cys Thr Ile Cys Leu Gly
1               5                   10                  15
Gly Ala Gly Pro Ile His Gly Gly Thr Gly Cys Arg Asn Gly Asn Phe
            20                  25                  30
```

```
His Phe Ala Phe Thr Leu Asp Ser Gly Gly Leu Leu Thr Thr Phe Phe
        35                  40                  45
Trp Gln Ile Pro Glu Gln Asp Trp Leu Arg Ala Val Ile Xaa His Leu
    50                  55                  60
Leu Val Asp Pro Lys Met Ala Leu Ala Cys Pro Pro Gln Leu Phe Tyr
65                  70                  75                  80
Asn Thr Pro Pro Ser Asp Pro Leu Ala Gln Ser Leu Asp Phe Phe Val
                85                  90                  95
His Val Ile Glu Pro Ile Lys Asp Ala Met Gly Val Ala Trp Cys Thr
            100                 105                 110
Gly Ser Gly Tyr Val Val Arg Arg Glu Ala Leu Asp Glu Ile Gly Asn
        115                 120                 125
Phe Pro Leu Gly Ser Leu Ala Glu Asp Val Ala Thr Ser Thr Leu Met
    130                 135                 140
Leu Gly Lys Gly Trp Lys Thr Ala Tyr Ile His Glu Pro Leu Gln Phe
145                 150                 155                 160
Gly Thr Val Pro Glu Asp Phe Gly Gly His Leu Lys Gln Arg Thr Arg
                165                 170                 175
Trp Ala Ile Gly Thr Val Asp Thr Ala Val Lys Leu Lys Phe Cys Leu
            180                 185                 190
Trp Gly Asp Ala Val Arg Gln Met Thr Val Ala Gln Arg Phe Ser Gly
        195                 200                 205
Phe Leu Tyr Ala Thr Leu Ser Leu Tyr Thr Leu Leu Leu Thr Ala Ser
    210                 215                 220
Ile Phe Ala Ile Pro Ile Ile Leu Leu Trp Gly Lys Gln Leu Val Ala
225                 230                 235                 240
Tyr Ala Thr Gln Glu Gln Leu Arg Trp Leu Ile Trp Ala Cys Phe Ala
                245                 250                 255
Ser Thr Ile Ser Asn Arg Ile Cys Glu Phe Ala Leu Phe Ile Pro Ala
            260                 265                 270
Gly Tyr His Thr Gly Gln Arg Gly Ser Xaa Tyr Gln Leu Trp Met Ala
        275                 280                 285
Pro Tyr Ile Ala Leu Cys Ile Val Arg Ser Phe Ile Leu Pro Arg Trp
    290                 295                 300
Leu Gly Gly Gln Ala Gln Ala Phe Lys Pro Thr Gly Ser Leu Ser Ser
305                 310                 315                 320
Ala Leu Glu Glu Arg Asp Pro Gln Arg Arg Lys Asn Leu Thr Arg Arg
                325                 330                 335
Leu Glu Ile Asn Thr Leu
            340
```

<210> 22854
<211> 103
<212> PRT
<213> A.fumigatus

<400> 22854

```
Gln Arg Met Pro Arg Gly Phe Arg Asn Thr Tyr Gln Ala Gly Leu Ile
1               5                   10                  15
Ser Asp Ala Ala Gly Trp Leu Asp Asn Thr Ile Thr Glu Pro Leu Tyr
            20                  25                  30
Gly Lys Ala Thr Ser Lys Thr Ser Ala Thr Phe His Thr Phe Gly Pro
        35                  40                  45
Tyr Thr Ala Ala Ile Cys Leu Cys Cys Val Leu Glu Gln Asn Ser Gly
    50                  55                  60
Gln Arg Ala Ile Asp Glu Gly Leu Cys Lys Gly Thr Ala Leu Ala Arg
```

65 70 75 80
Gly Arg Gly Phe Arg Arg Gly Lys Ser Lys Asn Leu Pro Lys Met Pro
85 90 95
Thr Ser Arg Arg Glu Ala Leu
100

<210> 22855
<211> 246
<212> PRT
<213> A.fumigatus

<400> 22855
Leu Pro Pro Val Ala Asn Thr Gly Ala Glu Tyr Ile Met Glu Leu Thr
1 5 10 15
Asp Lys Thr Lys Ala Asp Val Lys Gly Gly Thr Ile Ile Asp Tyr Glu
20 25 30
Gly Lys Ala Arg Leu Leu Glu Ile Ala Gln Val Pro Lys Glu His Val
35 40 45
Asn Glu Phe Lys Ser Ile Lys Lys Phe Lys Tyr Phe Asn Thr Asn Asn
50 55 60
Ile Trp Met Ser Leu Arg Ala Ile Lys Arg Val Val Glu Glu Asn Glu
65 70 75 80
Leu Glu Met Glu Ile Ile Ala Asn Glu Lys Ser Ile Pro Ala Asp Lys
85 90 95
Lys Gly Glu Ala Asp Gln Ala Ile Tyr Gln Leu Glu Thr Ala Val Gly
100 105 110
Ala Ala Ile Arg His Phe Lys Asn Ala His Gly Val Asn Val Pro Arg
115 120 125
Arg Arg Phe Leu Pro Val Lys Thr Cys Ser Asp Leu Leu Leu Val Lys
130 135 140
Ser Asp Leu Tyr Arg Leu Glu His Gly Gln Leu Val Met Asp Pro Asn
145 150 155 160
Arg Phe Gly Gly Val Pro Val Ile Lys Leu Gly Ser Asp Phe Lys Lys
165 170 175
Val Ser Asp Phe Gln Lys Arg Ile Pro Ser Ile Pro Arg Ile Val Glu
180 185 190
Leu Asp His Leu Thr Ile Thr Gly Ala Val Asn Leu Asp Arg Asn Val
195 200 205
Thr Leu Lys Gly Thr Val Ile Ile Val Ala Thr Glu Gly Ser Thr Ile
210 215 220
Asp Ile Pro Pro Gly Ser Val Leu Glu Asn Cys Val Val Gln Gly Ser
225 230 235 240
Leu Arg Ile Leu Glu His
245

<210> 22856
<211> 272
<212> PRT
<213> A.fumigatus

<400> 22856
Ser His Ile Val Ser Thr Ala Leu Ser Leu Ser Gln Arg His Gln Asp
1 5 10 15
Cys Gln Ile Thr Leu Leu Glu Gln Ser Pro Ile Ile Pro Asn Pro Tyr
20 25 30
Gly Ser Ser Val Asp Ser Ser Arg Ile Val Arg Ala Asp Tyr Ser His

```
        35                  40                  45
Pro Val Tyr Ala Lys Leu Ala Ala Ala Ala Ile Asp Arg Trp Arg Asn
    50                  55                  60
Thr Glu Trp Gly Arg Glu Gly Arg Tyr Thr Gln Asn Gly Leu Met Leu
65                  70                  75                  80
Val Trp Thr Pro Gly Asn Glu Lys Ala Lys Asn Tyr Ala Thr Lys Ser
                85                  90                  95
Tyr His Asn Val Lys Gln Leu Glu Gly Asp Lys Val Glu Leu Leu Pro
            100                 105                 110
Ser Ala Asp Asp Val Met Arg Ile Val Pro Glu Tyr Gly Lys Glu Leu
        115                 120                 125
Asn Val Ala Gly Gly Tyr Ile Asn Trp Gly Ser Arg Trp Ala Asp Ala
    130                 135                 140
Ala Ala Gly Val Arg Phe Ala Lys Lys Leu Leu Asp Glu Gln Gly Lys
145                 150                 155                 160
Val Val Phe Lys Thr Gly Glu Val Asp Arg Leu Leu Leu Ala Asp Gly
                165                 170                 175
Gln Ser Ala Thr Ser Gln Arg Arg Val Thr Gly Val Val Leu Thr Asp
            180                 185                 190
Gly Thr Thr Leu Thr Ala Asp Leu Val Ile Leu Ala Thr Gly Ala Trp
        195                 200                 205
Thr Gly Lys Leu Val Asp Leu Arg Gly Arg Ala Ile Ser Thr Gly Gln
    210                 215                 220
Ala Ile Ser Tyr Met His Ile Ser Asp Glu Glu His Arg Arg Leu Glu
225                 230                 235                 240
Asn Ile Pro Thr Val Leu Asn Phe Ala Asn Gly Ile Phe Ile Ile Pro
                245                 250                 255
Pro Arg Asn Asn Leu Leu Lys Ile Ala Arg His Ala Tyr Gly Tyr His
            260                 265                 270
```

<210> 22857
<211> 66
<212> PRT
<213> A.fumigatus

<400> 22857

```
Asn Gly Pro Ala Ala Glu Val Asp Lys Leu Thr Cys Pro Gly Ala Cys
1               5                   10                  15
Arg Lys Asp Asp Lys Ile Gly Arg Glu Cys Arg Ala Val Arg Gln Asp
            20                  25                  30
Asn Thr Gly Asp Ser Ala Leu Gly Gly Gly Ala Leu Ala Ile Gly Lys
        35                  40                  45
Lys Glu Pro Val Asp Leu Ala Gly Phe Glu Asn His Leu Ser Leu Phe
    50                  55                  60
Val Gln
65
```

<210> 22858
<211> 125
<212> PRT
<213> A.fumigatus

<400> 22858

```
Pro Gln Arg Leu Ser Leu Ser Ala Val Ser Thr Asp Ile Tyr Asp Val
1               5                   10                  15
Ser Leu Glu Glu Leu Thr Glu Ala Glu Thr Ala Leu Ala Glu Arg Glu
```

```
            20                  25                  30
Thr Glu Asp Gln Tyr Ser Leu Arg Ala Leu Arg Thr Leu Phe Gly Arg
        35                  40                  45
Leu Tyr Asn Val Arg Lys Ser Ile Leu Cys Cys Leu Leu Ala Leu Gly
    50                  55                  60
Ala Asp Gly Gly Gly Ser Asp Ile Val Arg Trp Ser Thr Ala Val Glu
65                  70                  75                  80
Gln Met Arg Asp Leu Thr Gln Val Thr Gly Ala Asn Thr Arg Lys Met
                85                  90                  95
Thr Asn Ile Leu Asn Glu Asp Asp Arg Glu Phe Ser Pro Gln Cys Arg
            100                 105                 110
Val Phe Ser Asp Asp Pro Pro Leu Thr Leu Phe Val Arg
        115                 120                 125

<210> 22859
<211> 99
<212> PRT
<213> A.fumigatus

<400> 22859
Thr Pro Phe Ile Ala Gly Arg Glu Asn Tyr Arg Phe Glu Tyr Leu Leu
1               5                   10                  15
Ile Phe Val Asp Thr Leu Tyr Asn Ala Arg Val Trp Leu Asn Ile Ala
            20                  25                  30
Ile Gln Arg Pro Glu Arg Ile Cys Trp Ala Ser Leu Asn Arg Gly Gly
        35                  40                  45
Thr Thr Lys Ala Gly Cys Arg Arg Gln Trp Gln Leu Gln Pro Ala Gly
    50                  55                  60
Arg Ala Arg His Met Ile Tyr Arg Arg Ser Leu Val Asp Ala Ala His
65                  70                  75                  80
Gln Ser Ser Phe Ala Ser Leu Pro Phe Leu Lys Glu Ala Ser Asp Ile
                85                  90                  95
Arg Ser Asn


<210> 22860
<211> 60
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15),(16),(19),(30),(39),(45)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22860
Thr Ile Thr Phe Arg Leu Glu Pro Ala Arg Pro Glu Gly Tyr Xaa Xaa
1               5                   10                  15
Glu Glu Xaa Gly His Ser Arg Gln Asn Phe Ser Gly Ser Xaa Thr Val
            20                  25                  30
Lys Leu Arg Phe Pro Ile Xaa Arg Ala Thr Val Gln Xaa Leu Arg Phe
        35                  40                  45
Ile Pro His Arg Lys Tyr Asp Leu Leu Leu Ala Cys
    50                  55                  60

<210> 22861
```

<211> 88
<212> PRT
<213> A.fumigatus

<400> 22861
Ser Gln Gly Phe Val Tyr Thr Ser Ser Thr Asp Arg Ile Leu Gly Thr
1 5 10 15
Pro His Asn Gly Ser Ser Leu Ala Ala Met Gly Lys Val Leu Ala Asn
20 25 30
Ile Val Ser Ala Phe Ser Pro Ile Arg Thr Pro Arg Ala Leu Ile Gly
35 40 45
Thr Leu Gln Lys Asp Ser Glu Val Leu Leu Glu Ile Thr Glu Asp Phe
50 55 60
Leu Lys Arg Arg Arg Lys Val Gln Leu Val Ser Phe Tyr Glu Leu Glu
65 70 75 80
Phe Thr Ser Ile Gly Pro Phe Leu
85

<210> 22862
<211> 200
<212> PRT
<213> A.fumigatus

<400> 22862
Pro Ala Gln Ser Gly His Arg Val Ser Leu Val Leu Ala Thr Trp Phe
1 5 10 15
Cys Ser Pro Val Met Leu Asp Ala Tyr Phe Arg Gly Gln Thr Lys Val
20 25 30
Gln Ile Gly Asn Asn Lys Asn Leu Phe Asp Phe Thr Glu Asn Thr Asn
35 40 45
Val Ala Tyr Ser His Tyr Leu Ala Ala Ala Ala Leu Val Thr Cys Gln
50 55 60
Asn Ser Leu Pro Gly Asp Asp Ala Lys Val Asp Gly Glu Ala Phe Phe
65 70 75 80
Ile Thr Asn Asp Glu Pro Ile Tyr Phe Trp Asp Phe Thr Arg Leu Val
85 90 95
Trp Gly Tyr Ala Gly Asp Thr Thr Arg Pro Glu Gln Val Gln Val Met
100 105 110
Ser Arg Thr Trp Ala Leu Leu Leu Ala Ala Leu Leu Glu Trp Ile Phe
115 120 125
Trp Ala Phe Arg Leu Gly Glu Ala Pro Leu Thr Arg Thr Lys Val Arg
130 135 140
Leu Ser Cys Met Thr Arg Tyr Phe Cys Ile Asp Lys Ala Lys Gln Arg
145 150 155 160
Leu Gly Tyr Lys Pro Leu Val Gly Leu Lys Asp Gly Leu Arg Thr Ala
165 170 175
Val Glu Asp Cys Leu Arg Arg Arg Thr Ala Ala Gln Ser Thr His Thr
180 185 190
Ser Asn Val Lys Glu Lys Gly Gln
195 200

<210> 22863
<211> 129
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (105)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22863
Asn Thr Asp Cys Val Ala Ile Ile Met Pro Leu Thr Pro Glu Gln Val
1 5 10 15
Gln Ile Ile Lys Ala Thr Val Pro Val Leu Ala Glu His Gly Thr Thr
20 25 30
Ile Thr Thr Val Phe Tyr Lys Asn Met Leu Thr Ala His Pro Glu Leu
35 40 45
Asn Asn Val Phe Asn Thr Thr His Gln Val Thr Gly His Gln Ala Arg
50 55 60
Ala Leu Ala Gly Ala Leu Phe Ala Tyr Ala Ser Asn Ile Asp Asn Leu
65 70 75 80
Gly Ala Leu Gly Pro Ala Val Glu Leu Met Cys Gln Gln Thr Pro Ser
85 90 95
Leu Tyr Ile Lys Pro Glu Asp Tyr Xaa Tyr Cys Pro Gly Ile Pro Gly
100 105 110
Ser Lys Gln Trp Gly Gln Val Leu Arg Gly Ser Pro Pro Pro Pro Arg
115 120 125
Ser

<210> 22864
<211> 208
<212> PRT
<213> A.fumigatus

<400> 22864
Glu Arg Cys Ser Phe Gln Pro Arg Gly Glu Asp Ser Gln Ser Ile Lys
1 5 10 15
Thr Thr Arg Asp Val Gln Phe Leu Gln Trp Ala Gly Asp Lys Thr Arg
20 25 30
Asp Phe Ser Ala Asn Ala Val Ser Ala Ala Thr Glu Leu Ser Arg Leu
35 40 45
Leu Gln Glu Gly Asp Asn Cys Asp Gln Gly Ile Phe Leu Ser Gln Ser
50 55 60
Lys Asp Val Ile Val Gly Val Tyr Ile Gly Ser Asp Ile Gln Arg Ala
65 70 75 80
Ser Ala Val Asp Ile Leu Gln Asn Phe Gly Asn Ser Ala Pro Ser Gly
85 90 95
Pro Val Lys Ala Ser Gln Leu Ala Ala Gln Ala Cys Glu Asn Gly Asn
100 105 110
Lys Thr Ala Gln Thr Leu Gly Val Phe Ala Asp Ala Thr Gly Asn Leu
115 120 125
Ala Ser Val Leu Asn Ala Leu Gln Val Trp Asp Lys Gly Gln Cys Leu
130 135 140
Thr Gly Ala Asp Asn Gln Gln Val Trp Ser Asn Thr Pro Ile Asn Val
145 150 155 160
Leu Asn Arg His Thr Thr Val Arg Ser Asp Asn Thr Thr Ile Ala Ala
165 170 175
Arg Leu Lys Thr Lys Val Leu Pro Arg Asp Thr Cys Thr Tyr Val Gln
180 185 190
Ala Ile Ala Asn Asp Gly Val Phe Thr Arg Arg Gly Arg Thr Lys Leu

195 200 205

<210> 22865
<211> 397
<212> PRT
<213> A.fumigatus

<400> 22865

```
Val Thr Phe Ala Leu Lys Arg Gln Ala Leu Phe Met Gly Leu Asn Met
1               5                  10                  15
Gly Met Gly Gln Leu Gly Leu Ala Thr Gly Pro Ile Ile Gly Gly Ala
            20                  25                  30
Phe Thr Thr Lys Val Ser Trp Arg Trp Cys Phe Tyr Ile Asn Leu Pro
        35                  40                  45
Leu Gly Val Val Val Gly Gly Phe Leu Leu Phe Asn Thr Ile Pro Glu
    50                  55                  60
Pro Lys Pro Lys Ser Pro Pro Leu Glu Ile Leu Gly Thr Ala Ile Lys
65                  70                  75                  80
Ser Leu Asp Leu Pro Gly Phe Met Leu Val Cys Pro Ala Val Val Met
                85                  90                  95
Phe Leu Leu Gly Leu Gln Phe Gly Gly Asn Gln His Pro Trp Asn Ser
            100                 105                 110
Ser Val Val Ile Gly Leu Leu Val Gly Ala Ala Val Thr Phe Gly Leu
        115                 120                 125
Phe Leu Val Trp Glu His Arg Arg Gly Asp Lys Ala Met Val Pro Phe
    130                 135                 140
Ala Met Val Lys His Arg Val Ile Trp Ser Thr Ala Met Thr Met Phe
145                 150                 155                 160
Phe Thr Leu Ser Ser Val Leu Val Ala Asp Phe Tyr Ile Ala Ile Tyr
                165                 170                 175
Phe Gln Ala Ile Arg Asp Asp Ser Pro Leu Met Ser Gly Val His Met
            180                 185                 190
Leu Pro Ile Thr Leu Gly Leu Val Leu Phe Thr Val Val Ser Gly Ala
        195                 200                 205
Leu Ile Ser Ile Leu Gly Tyr Tyr Leu Pro Phe Leu Leu Ala Gly Gly
    210                 215                 220
Ala Ile Ser Ala Val Gly Tyr Gly Leu Leu Ser Thr Leu Ser Pro Thr
225                 230                 235                 240
Thr Ser Val Ala Lys Trp Ile Gly Tyr Gln Ile Leu Tyr Gly Val Ala
                245                 250                 255
Ser Gly Cys Thr Thr Ala Ala Pro Tyr Ile Ala Ile Gln Asn Leu Val
            260                 265                 270
Ser Pro Ala Gln Ile Pro Gln Ala Met Ala Ile Ile Ile Phe Trp Gln
        275                 280                 285
Asn Ile Gly Ala Ala Thr Ser Leu Ile Ala Ala Asn Ala Ile Phe Ser
    290                 295                 300
Asn Ser Leu Arg His Gln Leu Gln Glu Arg Val Ala Asp Ile Gly Leu
305                 310                 315                 320
Ala Pro Asp Ala Ile Val Ala Ala Gly Val Arg Ser Ile Arg Asp Leu
                325                 330                 335
Val Ser Gly Ser Pro Leu Ala Ala Val Leu Glu Gly Tyr Ala Lys Ser
            340                 345                 350
Ile Asp Arg Val Met Leu Leu Gly Leu Ala Val Ser Leu Ala Val Leu
        355                 360                 365
Val Phe Ala Pro Gly Leu Gly Trp Lys Asp Ile Arg Lys Val Lys Asp
    370                 375                 380
```

```
Phe Gln Val Ile Gly Ile His Ser Pro Asp Gly Gly Glu
385                 390                 395

<210> 22866
<211> 66
<212> PRT
<213> A.fumigatus

<400> 22866
Ile Val Arg Ser Arg Trp His Val Pro Leu Gln Ile Val Gly Thr Val
1               5                  10                  15
Ile Ala Val Val Ala Tyr Phe Leu Gly His Ala His Lys Gly Arg Gln
            20                  25                  30
Phe Gly Lys Asn Val His Ala Ser Phe Ala Asn Leu Leu Met Leu Met
        35                  40                  45
Leu Val Val Gln Val Val Ile Gly Leu Tyr Leu Lys Leu Ser Ser Pro
    50                  55                  60
Gly Val
65

<210> 22867
<211> 184
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (175)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22867
Leu Thr Ile Ser Ser His Gly Ile Asp Ser Leu Asn Cys Thr Leu Ala
1               5                  10                  15
Ser Leu Leu Glu Thr Ala Ala Met Gly Phe Gly Ser Ser Gln Leu Gly
            20                  25                  30
Ala Tyr Thr Ala Leu Val Pro Cys Leu Ala Met Tyr Phe Ser Thr Trp
        35                  40                  45
Glu Thr Tyr His Thr His Thr Leu Tyr Leu Gly Tyr Ile Asn Gly Pro
    50                  55                  60
Thr Glu Gly Leu Leu Val Ala Ile Gly Ile Met Ile Ala Ser Gly Tyr
65                  70                  75                  80
Tyr Gly Pro Gln Ile Trp Ser Arg Pro Ile Val Glu Phe Leu Asn Phe
                85                  90                  95
Pro Gln Ile Phe Gly Asn Tyr Ser Val Lys Asp Val Trp Val Pro Phe
            100                 105                 110
Leu Leu Leu Ser Phe Phe Val Gly His Leu Pro Gly Cys Val Phe Asn
        115                 120                 125
Val Ile Glu Ala Arg Lys Lys Gln Gly Leu Pro Val Ser Thr Ile Phe
    130                 135                 140
Lys Glu Cys Gly Ser Asn Asp Cys Leu Pro His Leu Gln His Cys Trp
145                 150                 155                 160
Ala Leu Leu Ser Leu Leu Asp Ser Ala Gly Ser Lys Ser Thr Xaa Leu
                165                 170                 175
Val Leu Val Gly Gln Ser Arg Leu
            180
```

<210> 22868
<211> 345
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18),(23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22868

```
Val Gly Asp Cys Val Gly Ile Val Thr Glu Val Leu His Thr Gly Thr
1               5                  10                  15
Ala Xaa Ser Gly Leu Ser Xaa His Ala Gly Gln Val Leu Asp Val Phe
            20                  25                  30
Leu Val Leu Tyr Val Pro Tyr Cys Gly Gly Phe Leu Thr Gln Tyr Leu
        35                  40                  45
Ser Thr Ile Gly Leu Ala Ile Tyr Phe Ser Ala Gly Ile Thr Phe Ile
    50                  55                  60
Tyr Arg Gly Ala Phe Val Ser Ser Phe Ile Ile Leu Ala Leu Val Tyr
65                  70                  75                  80
Phe Arg Arg Tyr Lys His Gly Gly Phe Ser Val Thr Asn Phe Thr Ser
                85                  90                  95
Pro Val Asp Thr Val Leu Asn Ser Tyr Leu Asp Leu Gly Asp Arg Asn
            100                 105                 110
Tyr Leu Ile Val Tyr Phe Cys Pro Val Thr Lys His Thr Ile Ser Leu
        115                 120                 125
Phe Ser Arg Ser His Ile Met Ala Asp Lys Pro Ala Ile Leu Gln Pro
    130                 135                 140
Arg Pro Arg Arg Val Phe Asp Leu Thr Pro Ala Ser Asn Glu Ser Ser
145                 150                 155                 160
Glu Ser Pro Thr Pro Ala Glu Pro Ala Asn Ser Asp Leu Leu Asn Pro
                165                 170                 175
Lys Glu Ala Ala Ser Ser Ser Val Ser Arg Thr Ala Ser Ile Met Asn
            180                 185                 190
Leu Thr Ser Ser Thr Leu Tyr Gly Ile Tyr Ser Pro Thr Ala Phe Glu
        195                 200                 205
Gly Glu Gly Gln Thr Pro Ile Ser Glu Ser Pro Pro Ile Ile Lys Pro
    210                 215                 220
Ser Pro Asp Thr Pro Val Arg Gln Ser Leu Gln Arg Thr Arg Ser Arg
225                 230                 235                 240
Leu Ser His Gly Leu Phe Arg Gly Val Ile Leu Pro Gln Val Phe Arg
                245                 250                 255
Ser Val Leu Leu Phe Gly Phe Gly Val Ala Tyr Gly Val Ile Thr Val
            260                 265                 270
His Leu His Glu Asn His Trp Ile Thr Pro Val Lys Leu Glu Asn Ile
        275                 280                 285
Arg Tyr Tyr Asp Ser Trp Gln Tyr Leu Gly Leu Trp Gly Leu Ala Gly
    290                 295                 300
Val Ala Leu Gly His Val Leu Pro Trp Leu Asp Ser Phe Ala Gly Glu
305                 310                 315                 320
Trp Asn Thr Asp Arg Ser Gln Thr Val Lys Gly Gln Glu Asn Asn Arg
                325                 330                 335
Leu Arg Glu Ser Ser Pro Arg Gly Trp
            340                 345
```

<210> 22869
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22869
Ile His Leu Pro Val Gln Val Ser Asp Leu Tyr Ser Gln Trp Gly Ile
1 5 10 15
Ser Thr Leu Leu Asn Asn Arg Arg Gly Trp Tyr Lys Thr Gly Asn Asn
20 25 30
Trp Trp Val Lys Gly Ser Asp Lys Pro Arg Asp Cys Gly Met Tyr Ile
35 40 45
Ser Pro Lys Gly Ser Val Val Ala Thr Leu Thr Met Gln
50 55 60

<210> 22870
<211> 71
<212> PRT
<213> A.fumigatus

<400> 22870
Gly Lys Lys Gly Gly Gly Val Asn Phe Gly Gln Glu Val Lys Phe Ser
1 5 10 15
Trp Gly Thr Gly Arg Glu Lys Phe Gly Lys Asn Tyr Pro His Leu Lys
20 25 30
Arg Pro Ile Val Asn Pro Leu Phe Gly Tyr Pro Tyr Phe Ile Asn Ile
35 40 45
Lys Gln Ser Pro Gly Phe Leu Ala Phe Leu Pro Ala Glu Ser Thr Arg
50 55 60
Lys Ser Glu Val Arg Arg Arg
65 70

<210> 22871
<211> 75
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (45)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22871
Cys Pro Leu Ser Arg His Asn Ala Tyr Pro Asn Ala Gly Leu Val Leu
1 5 10 15
Leu Ser Leu Pro Arg Val Thr Pro Arg Gln Leu Ile Cys Leu Pro Ile
20 25 30
His Gly Gly Pro Val Pro Thr Phe Gly Ile Ser Tyr Xaa Trp Met Glu
35 40 45
Pro Pro Ala Pro Glu Ile Leu Pro Gln Asn Ile Leu Gln Gln Ala Thr
50 55 60
Pro Phe Gly Tyr Leu Arg Asn Phe Met Tyr Met
65 70 75

<210> 22872
<211> 129

<212> PRT
<213> A.fumigatus

<400> 22872
Ser Pro Asn Ser Phe Gln Gly Thr Glu Arg Ser Ile Pro Ile Leu Pro
1 5 10 15
Gln Leu Thr Asp Pro Glu Ala Thr Ser Pro Thr Asp Lys Arg Leu Met
20 25 30
Glu Thr Thr Asp Ala Phe Pro Ser Ser Ala Ala Phe Asp Val Ile Asn
35 40 45
Ser Ala Leu Gln Ser Asp Glu Ala Glu Arg Lys Asp Ala Ile Lys Asn
50 55 60
Ala Lys Ala Ile Val Ala Phe Asn Leu Lys Asn Ala Ser Gly Gln Glu
65 70 75 80
Glu Ser Trp Tyr Leu Asp Leu Lys Asp Lys Gly Val Val Gly Lys Gly
85 90 95
Ala Ala Pro Ala Gly Gly Lys Ala Asp Gly Ser Phe Ile Ser Leu Thr
100 105 110
Phe Glu Asn Gln Trp Ser Gly Leu Asp Trp Phe Gln Ala Asp His Val
115 120 125
Thr

<210> 22873
<211> 105
<212> PRT
<213> A.fumigatus

<400> 22873
Arg Leu Cys Ala Leu Ile Asn Ala Leu Glu Phe Lys Pro Lys His Leu
1 5 10 15
Leu Ala Val Asp Ser Val Pro Ser Arg Leu Glu Leu Ala Arg Ser Leu
20 25 30
Gly Ala Glu Pro Trp Asn Phe Lys Thr Asp Gly Glu Gly Leu Arg Lys
35 40 45
Arg Val Glu Glu Leu Thr Asn Gly Arg Gly Ala Asp Ala Val Ile Glu
50 55 60
Val Val Gly Leu Ser Pro Ala Leu Arg Thr Gly Phe Asp Leu Leu Arg
65 70 75 80
Pro Trp Gly Ile Leu Ser Ser Val Gly Val His Asn Gly Glu Val Ser
85 90 95
Leu His Gln Pro Ser Gly Ile Gln Ala
100 105

<210> 22874
<211> 84
<212> PRT
<213> A.fumigatus

<400> 22874
Arg Leu Met Lys Thr His Leu Pro Val Val Asn Thr His Thr Ala Glu
1 5 10 15
Asn Ala Pro Trp Pro Gln Gln Ile Lys Ser Ser Pro Gln Arg Trp Ala
20 25 30
Lys Pro Asn His Leu Asn Asp Ser Ile Arg Ser Ser Pro Ile Gly Gln
35 40 45

```
Leu Phe Asp Ala Phe Ala Gln Ser Phe Ser Val Cys Phe Glu Val Pro
    50                  55                  60
Arg Leu Gly Thr Glu Arg Pro Gly Lys Phe Glu Ser Gly Arg Asp Arg
65                  70                  75                  80
Val Asn Cys Gln
```

<210> 22875
<211> 114
<212> PRT
<213> A.fumigatus

<400> 22875

```
Glu Arg Ile Val Arg Tyr Pro Cys Ser Gln Glu Ser Gly Pro Leu Arg
1               5                   10                  15
Leu Asn Thr Lys Ala Leu Gly Ala Leu Ala Pro His Phe Pro Glu Pro
            20                  25                  30
Asp Trp Ser Ala Val Leu Arg Ala Ala Gly Leu Ala Trp Glu Pro Ser
        35                  40                  45
Ser Leu Leu Pro Pro Gln Pro Lys Pro Phe Pro Ser Leu Gln Ser Leu
    50                  55                  60
Ile Phe Leu Pro Leu Tyr Tyr Cys Phe His Pro Pro Ile Pro Thr Pro
65                  70                  75                  80
Leu Ser Phe Phe Leu Leu Leu Thr Pro Ser Arg Ser Leu Ser Asn Val
                85                  90                  95
Phe Thr Thr Gly Leu Glu Gly Ser Ala Val Ala His Cys Pro Thr Ala
            100                 105                 110
Val His
```

<210> 22876
<211> 63
<212> PRT
<213> A.fumigatus

<400> 22876

```
Arg Phe Ala Ser Arg Arg Ser Val Val Arg Ser Glu Ser Val Arg Asn
1               5                   10                  15
Ile Ile Arg Glu Arg Arg Met Leu Glu His Leu Asn His Pro Cys Leu
            20                  25                  30
Cys Asn Leu Arg Tyr Ser Phe Gln Asp Ile Glu Tyr Met Cys Val Leu
        35                  40                  45
Gln Gln Val Ser Trp Met Ala Met Arg Leu Val Ala Asn Ile Ser
    50                  55                  60
```

<210> 22877
<211> 85
<212> PRT
<213> A.fumigatus

<400> 22877

```
Ser Tyr Ile Val Val Asp Leu Met Asn Gly Gly Asp Leu Arg Phe His
1               5                   10                  15
Ile Ser Arg Lys Cys Phe Thr Glu Glu Ala Val Arg Phe Trp Met Ala
            20                  25                  30
Glu Leu Gly Cys Ala Leu Arg Tyr Ile His Ser Gln Gly Ile Ile His
```

```
        35                  40                  45
Arg Asp Val Lys Pro Asp Asn Val Leu Leu Asp Ser Glu Gly His Val
    50                  55                  60
His Leu Ala Asp Phe Val Cys Gly Ala Leu Phe Glu Gln Cys Asp Pro
65                  70                  75                  80
Ile His Phe Ile Arg
                85
```

<210> 22878
<211> 74
<212> PRT
<213> A.fumigatus

<400> 22878

```
Leu Phe Phe Leu Leu Gln Asn Val Ala Ser Asp Phe Arg Pro Gly Lys
1               5                   10                  15
Pro Leu Thr Ser Lys Ser Gly Thr Leu Ala Tyr Leu Ala Pro Glu Val
            20                  25                  30
Tyr Glu Gly Gly Gly Tyr Tyr Cys Glu Val Asp Trp Trp Ser Leu Gly
        35                  40                  45
Val Thr Phe Tyr Glu Cys Ile Tyr Asn Lys Val Trp Thr Cys Leu Gly
    50                  55                  60
Arg Asn Ser Gly Phe Ser His Tyr Ser Asn
65                  70
```

<210> 22879
<211> 100
<212> PRT
<213> A.fumigatus

<400> 22879

```
Arg Pro Phe Glu Gly Arg Ser Gln Asp Val Leu Ser Glu Asn Ile Lys
1               5                   10                  15
Lys Ala Gln Pro Lys Tyr Tyr Val Thr Asn Pro Ala Val Ser Val Pro
            20                  25                  30
Cys Leu Arg Ala Met Ala Ala Leu Leu Glu Lys Asp Arg Ser Lys Arg
        35                  40                  45
Ile Gly Ala Thr Gly Phe Asp Thr Phe Thr Ser His Met Phe Phe Ala
    50                  55                  60
Glu Ile Asp Phe Val Ala Leu Glu Arg Lys Glu Val Pro Pro Val Phe
65                  70                  75                  80
Arg Pro Ser Ser Asp Lys Thr Asn Phe Asp Ala Thr Tyr Asp Leu Glu
                85                  90                  95
Glu Leu Leu Leu
            100
```

<210> 22880
<211> 152
<212> PRT
<213> A.fumigatus

<400> 22880

```
Pro Ser Ser Trp Thr Leu Leu Pro Pro Met Ala Ile Gln Ser Met Arg
1               5                   10                  15
Leu Thr Thr Gly Pro Leu Ser Arg Pro Leu Cys Arg Asn Gly Ala Thr
            20                  25                  30
```

```
Trp Arg Gln Lys Ser Arg Thr Trp Arg Pro Lys Ala Lys Arg Arg Ser
        35                  40                  45
Arg Phe Ser Trp Ile Asn Leu Ile Ala Thr Ile Arg Pro Gly Arg Leu
    50                  55                  60
Pro Leu Ala Arg Ile Ser Pro Cys Cys Thr Arg Arg Ala Thr His Arg
65                  70                  75                  80
Lys Arg Thr Thr Thr Thr Lys Thr Arg Lys Ser Asn Pro Thr Arg Arg
                85                  90                  95
Ser Leu Trp Gly Pro Gly Thr Gly Thr Gly Gln Asn Ser Ser Asn Ala
            100                 105                 110
Thr Met Arg Thr Thr Thr Pro Met Ser Trp Asn Ser Asn Ser Asn Pro
        115                 120                 125
Trp Pro Pro Cys Thr Lys Ser Thr Ser Ala Ser Glu Thr Arg Arg Thr
    130                 135                 140
Cys Thr Ala Ile Ser Pro Pro Ser
145                 150
```

<210> 22881
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (19)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22881

```
Ala Leu Thr Val Gly Gly Ser Gly Ile Arg Leu Thr Leu Ser His Glu
1               5                   10                  15
Phe Ser Xaa Gly Asp Ser Pro Tyr Pro Thr Leu Arg Ala Thr Ala Pro
            20                  25                  30
Pro Gly Thr Ser Ala Arg Glu Cys Ser Gly Pro Ala Phe Arg Thr Tyr
        35                  40                  45
Ser Arg Arg Ile Ser Thr Gly Pro Pro Ile Ile Pro Glu Gly Leu Phe
    50                  55                  60
Pro Asn Gln Pro His Lys Asn Glu Phe Leu
65                  70
```

<210> 22882
<211> 273
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (254)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22882

```
Asn Val Lys Pro Leu Leu Thr Arg Thr Ile Arg Asp Ser Thr Ser Pro
1               5                   10                  15
Val Ile Lys Ala Ala Ala Ile His Cys Leu Gly Val Cys Thr Ser Phe
            20                  25                  30
Gly Gly Ala Gly Glu Asp Ser Ile Val Asp Gln Met Thr Phe Phe Leu
        35                  40                  45
```

```
Asp Ile Ala Ala Ser Asp Gly His Ser Ile Asp Ala Ala Asp Asp Gly
    50                  55                  60
Ala Thr Val Thr Ala Ala Leu Gln Glu Trp Gly Tyr Leu Ala Thr Glu
65                  70                  75                  80
Ile Glu Asp Leu Glu Ala Glu Ser Glu Glu Ala Val Gln Ile Phe Met
                85                  90                  95
Asp Gln Leu Asn Ser Asn Asp Pro Ala Arg Gln Ile Ala Ala Gly Glu
            100                 105                 110
Asn Ile Ala Leu Leu Tyr Glu Lys Ser Tyr Thr Pro Gln Glu Asp Asp
        115                 120                 125
Asp Asp Glu Asp Glu Glu Val Glu Ser Asp Glu Glu Glu Phe Met Gly
    130                 135                 140
Ala Arg Asp Arg Asp Gly Pro Lys Leu Val Lys Arg Tyr Asn Ala Tyr
145                 150                 155                 160
His Asn Thr His Glu Leu Glu Gln Gln Leu Gln Ser Leu Ala Thr Val
                165                 170                 175
His Lys Lys His Ile Ser Lys Arg Asp Lys Lys Asn Leu His Ser Asn
            180                 185                 190
Phe Ala Ser Ile Leu Thr Thr Val Glu Asn Pro Arg Arg Gly Pro Met
        195                 200                 205
Tyr Asn Lys Ala Ile Asp Gln Asp Ser Asn Arg Gln Tyr Gly Ser Lys
    210                 215                 220
Val Arg Val Lys Ile Gly Arg Glu Gly Val Met Ser Ile Asp Arg Trp
225                 230                 235                 240
Trp Lys Trp Tyr Pro Thr Asp Ser Leu Pro Arg Val Leu Xaa Gly Arg
                245                 250                 255
Phe Ala Val Pro Tyr Phe Glu Gly Asn Arg Pro Ser Arg Asn Ile Cys
            260                 265                 270
Pro
```

<210> 22883
<211> 214
<212> PRT
<213> A.fumigatus

```
<400> 22883
Phe Leu Thr Ile Arg Gly Ser Phe Gly Pro Leu Gly Glu Asp Arg Ser
1               5                   10                  15
His Arg Gly Met Thr Ser Ala Ala Tyr Gln Lys Lys Phe Asp Glu Tyr
            20                  25                  30
Leu Ser Gln Gly Tyr Arg Val Val Gln Val Asn Gly Tyr Thr Val Gly
        35                  40                  45
Asp Lys Val Tyr Tyr Ala Ala Ile Trp Asp Lys Ser Pro Ser Ala Gly
    50                  55                  60
Trp Val Thr Arg His Gly Met Thr Val Glu Ser Met Gln Lys Tyr Phe
65                  70                  75                  80
Asp Glu Tyr Leu Lys Gln Gly Tyr Lys Leu Thr His Ile Ser Gly Tyr
                85                  90                  95
Glu Leu Arg Gly Glu Glu Arg Phe Ala Ala Ile Trp Glu Lys Gln Asn
            100                 105                 110
Asp Lys Val Ala Trp Leu Ser Tyr Ala Asn Met Thr Ser Ala Glu Tyr
        115                 120                 125
Gln Ser Arg Phe Asp Lys Tyr Val Lys Asp Gly Tyr Arg Leu Ile Asp
    130                 135                 140
Val Asp Gly Tyr Gln Val Asn Asp His Val Tyr Tyr Ala Ala Ile Trp
```

```
145                 150                 155                 160
Asp Lys Leu Ala Ser Gly Ala Trp Val Ala Arg His Gly Leu Asp Ser
                165                 170                 175
Pro Ser Phe Gln Ala Ala Phe Asp Lys Tyr Lys Glu Glu Gly Tyr Val
            180                 185                 190
Leu Arg Ala Phe Ser Gly Tyr Asn Ser Gly Lys Glu Asp Arg Tyr Ala
        195                 200                 205
Gly Leu Trp Ile Lys Pro
    210
```

<210> 22884
<211> 124
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22884

```
His Pro Arg Trp Ile Thr Val Ser Pro Gln Leu Xaa Ile Val Ile Ile
1               5                   10                  15
Leu Tyr Cys Ser His His His His Cys His His Ile Ile Thr Ala Tyr
            20                  25                  30
Phe Asn Tyr Ser Ile Val Thr Phe His Cys Phe Val Ile Arg Tyr Ile
        35                  40                  45
Val His Ala Leu Leu Glu Leu Ser Ser Leu Pro Leu Ser Leu Asp Met
    50                  55                  60
Thr Asp Met Ser Lys Asn Leu Asp Ser Ile Pro Tyr Asp Val Phe Tyr
65                  70                  75                  80
Gln Ile Ala Ser Gly Leu Asp Cys His Asp Phe Ile His Leu Ser Arg
                85                  90                  95
Val Asn Gln Ala Leu Asn Lys Leu Met Arg Asn Glu Ser Ile Ala Arg
            100                 105                 110
Lys Thr Ile Glu Val Cys Ile Phe Leu Thr Ser Ala
        115                 120
```

<210> 22885
<211> 178
<212> PRT
<213> A.fumigatus

<400> 22885

```
Pro Gly Thr Pro Pro Arg Pro Arg Cys Cys Ile Glu Gln Leu Thr Phe
1               5                   10                  15
Pro Asp Gln Ala Leu Leu Gln Leu Thr Cys Gly Lys Ser Leu Phe His
            20                  25                  30
Ile Cys Met Tyr Glu Met Asp Ala Leu Val Thr Phe Gly Ala Val Phe
        35                  40                  45
Thr Ser Thr Gly Ser Phe Ser Leu Ser Ser Leu Leu Thr Ile Ile Tyr
    50                  55                  60
Ser Leu Phe Leu Lys Pro Tyr Leu Ala Pro Leu Thr Val Asn Ile Thr
65                  70                  75                  80
Leu Ile Ser Gln Ser Thr Asp Phe Ala Pro Thr Ala Ala Glu Ile Asp
                85                  90                  95
```

```
Ala Phe Leu Arg Glu Gln Phe Gly Glu Glu Ser Asn Lys Trp Arg Cys
            100                 105                 110
Thr Leu Thr Val Lys Leu Asn Arg Tyr Asn Gly Pro Ala Arg Asn Ala
        115                 120                 125
Phe His Val Ser Gln Val Gln Tyr Thr Ile Asp Cys Thr Arg Val Glu
    130                 135                 140
Val Asp Ala Tyr Gly Arg Val Ser Arg Gln Pro Ser Ser Thr Leu Val
145                 150                 155                 160
Leu Pro Met Arg Ala His Tyr Gly Ser Leu Leu Ser Asp His Phe Ala
                165                 170                 175
Gly Asn
```

<210> 22886
<211> 83
<212> PRT
<213> A.fumigatus

<400> 22886

```
Lys Pro Ser Ile Phe Lys Cys Ser Ile Leu Thr Val Arg Leu Tyr Asn
1               5                   10                  15
Thr Gln Phe Ala His Leu Phe Phe Val Ser Thr Glu Ser Asp Pro Ser
            20                  25                  30
Ser Gly Cys His Lys Ser Tyr Arg Ile Glu Thr Gly Ser Cys Ile Tyr
        35                  40                  45
Ser Tyr Arg Phe Asp Asp Thr Glu Phe Met His Pro Lys Leu Ala Ser
    50                  55                  60
Pro Gly His Leu Asn Arg Ile Gly Ile Leu Ile Pro His Val Val His
65                  70                  75                  80
Ser His Arg
```

<210> 22887
<211> 85
<212> PRT
<213> A.fumigatus

<400> 22887

```
Ser Gly Arg Thr Leu Thr Asp Ile His Asp Thr Thr Ser Phe Glu Tyr
1               5                   10                  15
Thr Asn Asn Ile His Phe Arg Lys Ser Ile Gly Thr Leu Ala Glu Cys
            20                  25                  30
His Ser Asn Ile Ile Leu Gln Arg Ala Ser Ser Phe Leu Ser Asp Gly
        35                  40                  45
Ile Phe Ser Val Ser Ala Asn Ser Asn Lys Ile Ser Thr Ser Arg Leu
    50                  55                  60
Trp Trp Phe Trp Met Ala Leu Thr Phe Pro Leu Thr Val Ile Ala Met
65                  70                  75                  80
Ala Ala Trp Trp Ala
                85
```

<210> 22888
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53),(69)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22888
Thr Phe Leu Ala Arg Asn Tyr Gly Gly Asp Ile Pro Met Ser Ala Val
1 5 10 15
Glu Lys Phe Pro Ile Leu Phe Ser Glu Ala Glu Glu Glu Arg Ser Pro
20 25 30
Val Leu Pro Cys Phe Ser His Glu Gly Ile Asn Val Cys Glu Thr His
35 40 45
Ala Lys Pro Ala Xaa His Gly Leu Arg Ser Phe Arg Arg Ser Pro Gln
50 55 60
Arg Thr Ser Ser Xaa Ile Arg Thr Ser Tyr Phe Gly Ser Arg Ala His
65 70 75 80
Arg Glu Cys Arg Ile Trp Leu Cys Tyr Phe Ser Val Ile Val
85 90

<210> 22889
<211> 158
<212> PRT
<213> A.fumigatus

<400> 22889
Leu Cys Ala Val Pro His Pro Arg Tyr Ile Thr Gln Glu Ser His Lys
1 5 10 15
Leu Glu Ile Gln Ala Arg Pro Pro Ile Ala Val Thr Asn Ala Val Ser
20 25 30
Trp Arg Ser Glu Gly Ile Arg Tyr Arg Lys Asn Glu Val Phe Leu Asp
35 40 45
Val Val Glu Ser Leu Asn Leu Leu Val Ser Ala Ser Gly Asn Val Leu
50 55 60
Arg Ser Glu Ile Leu Gly Ala Ile Lys Met Lys Cys Tyr Leu Ser Gly
65 70 75 80
Met Pro Glu Leu Arg Leu Gly Leu Asn Asp Lys Val Met Phe Glu Thr
85 90 95
Thr Gly Arg Ala Thr Arg Gly Lys Ala Val Glu Met Glu Asp Val Lys
100 105 110
Phe His Gln Cys Val Arg Leu Ser Arg Phe Glu Asn Asp Arg Thr Ile
115 120 125
Asn Phe Ile Pro Pro Asp Gly Glu Phe Glu Leu Met Ser Tyr Arg Leu
130 135 140
Asn Thr His Val Lys Pro Leu Ile Trp Val Lys Cys Leu Val
145 150 155

<210> 22890
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22890
Tyr Leu Tyr Ile Arg His Ser Asn Xaa Tyr Ile Leu Ala Leu Thr Lys
1 5 10 15
Arg Asn Thr Asn Ala Thr Glu Ile Leu Leu Phe Leu His Lys Ile Val
20 25 30
Glu Val Phe Thr Glu Tyr Phe Lys Val Leu Glu Glu Glu Ser Ile Arg
35 40 45
Asp Asn Phe Val Ile Ile Tyr Glu Leu Leu Asp Glu Met Met Asp Phe
50 55 60
Gly Tyr Pro Gln Thr Thr Glu Ser Lys Ile Leu Gln Glu
65 70 75

<210> 22891
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22891
Leu Arg Ala Lys Lys Val Tyr Ser Ser Leu Val Ile Leu Arg Val Leu
1 5 10 15
Asp Leu Trp Lys Asn Asn Asp Thr Lys Ala His Trp Ser Pro Trp Pro
20 25 30
Phe Lys Val Lys Lys Asn Thr Gly Asp Ala Leu Val Glu Gly Lys Glu
35 40 45
Asn Gly Gly Asn Arg Arg Lys Cys Ser Gly Asn Pro Leu
50 55 60

<210> 22892
<211> 242
<212> PRT
<213> A.fumigatus

<400> 22892
His Ala His Pro Pro Asp Arg Leu Lys Leu Ile Val Gln Gln Thr Gly
1 5 10 15
Ala Lys Phe Val Ile Ser Glu Pro Val Val Met Asp Ser Leu Ile Leu
20 25 30
Asp Gly Thr Ala Asn Ile Leu Ser Leu Thr Asp Cys Gly Gly Ser Ile
35 40 45
Asn Glu Pro Gly Leu Thr Pro Cys Gln Leu Pro Ser Val Lys Pro Thr
50 55 60
Asp Ile Ala Phe Ile Met Phe Thr Ser Gly Ser Thr Gly Thr Pro Lys
65 70 75 80
Gly Val Leu Ile Gln His Glu Ser Ile Cys Thr Ser Ile Gln Tyr Asn
85 90 95
Gly Glu Ala Glu Met Val Thr Ser Ser Thr Arg Gly Leu Gln Phe Ser
100 105 110
Ser Tyr Ala Phe Asp Thr Ser Val Asp Glu Ile Phe Thr Val Leu Ser
115 120 125
Arg Gly Gly Cys Val Cys Val Pro Thr Glu Ala Glu Arg Met Asn His
130 135 140
Leu Ala Ala Phe Ile Ser Arg Phe Asp Val Asn Trp Leu Ser Ile Thr
145 150 155 160
Pro Thr Val Ala Arg Leu Ile Ala Pro Gly Glu Val Pro Ser Val Arg
165 170 175
Thr Ile Val Leu Gly Gly Glu Glu Ile Asp Pro Gly Val Val Asn His

```
            180                 185                 190
Trp Lys Gly Ser Cys Arg Ile Gly Cys Ile Leu Arg Pro Gly Gly Gly
        195                 200                 205
Ile His Cys Leu Arg Cys Val Ala Arg Asp Glu Cys Arg Trp Arg Cys
    210                 215                 220
Pro Ala Trp Pro Thr Cys Gly Leu Val Phe Val Gly Ser Arg Ser Leu
225                 230                 235                 240
Arg Pro
```

<210> 22893
<211> 255
<212> PRT
<213> A.fumigatus

<400> 22893

```
Ile Ile Gly Lys Asp His Ala Glu Leu Val Ala Ser Tyr Gly Pro Ala
1               5                   10                  15
Glu Ala Ser Ile Ala Cys Ala Ala Ser Pro Val Thr Ser Val Val Gly
            20                  25                  30
Asp Ala Leu Leu Gly Arg Pro Val Ala Ser Ser Leu Trp Val Val Asp
        35                  40                  45
Pro Ser Asp His Asp Ala Leu Met Pro Ile Gly Thr Ala Gly Glu Leu
    50                  55                  60
Val Ile Gly Gly Pro Leu Val Ala Arg Gly Tyr Leu Asn Asp Pro Asp
65                  70                  75                  80
Arg Thr Ser Leu Ala Phe Val Cys Pro Lys Trp Ser Thr Glu Leu Asn
                85                  90                  95
Leu Pro Phe Asn Arg Phe Tyr Arg Thr Gly Asp Met Ala Arg Trp Asn
            100                 105                 110
Val Asp Gly Thr Leu Ser Tyr Val Gly Arg Leu Asp Thr Gln Val Lys
        115                 120                 125
Leu Asn Gly Gln Arg Val Glu Leu Gly Glu Val Glu Arg His Leu Leu
    130                 135                 140
Ala Gln Pro Cys Leu Gln Cys Ser Thr Cys Ala Val Pro Gln Ser Gly
145                 150                 155                 160
Leu Leu Ala Asn Arg Leu Val Gly Val Ile Gly Leu Gln Thr Pro Gln
                165                 170                 175
Ile Ser Ala Ala Asp Glu Phe His Cys Leu Glu Ile Ser Gln Ala Arg
            180                 185                 190
Thr Leu Val Pro Tyr Ala Ser Asp Ala Glu Glu Ser Leu Arg Ala Lys
        195                 200                 205
Leu Pro Pro Tyr Met Val Pro Thr Val Trp Ile Gly Val Gln Ser Leu
    210                 215                 220
Pro Leu Asn Ala Ser Gly Lys Leu Asp Arg Arg Lys Val Asn Lys Trp
225                 230                 235                 240
Leu Glu Val Phe Thr Thr Gly Leu Glu Gly Ser Thr Asp Ala Leu
                245                 250                 255
```

<210> 22894
<211> 114
<212> PRT
<213> A.fumigatus

<400> 22894

```
Pro Ser Val Gln Val Asp Asn Phe Gly Phe Gly Ala Glu Lys Arg Arg
```

```
1               5                   10                  15
Met Leu Glu Leu Lys Val Leu Asn Gly Thr Leu Ala Phe Arg Tyr Val
            20                  25                  30
Ile Ala Leu Gly Arg Asn Ser Lys Ile Tyr Asn Asn Ser Gly Pro Lys
        35                  40                  45
Asn Asp Pro Ala Arg Asp Ala Phe Gln Ala Met Leu Asp Ser Val Arg
    50                  55                  60
Leu Pro Phe Asn Glu Cys Leu Arg Ile Val Gln Glu Asn Ile Gln Leu
65                  70                  75                  80
Asp Pro Ser Phe Val Asn Phe Tyr Leu Trp Ala Lys Glu Lys Ser Ile
                85                  90                  95
Pro Ile Val Ile Leu Ser Ser Gly Met Thr Pro Val Ile Glu Ala Leu
            100                 105                 110
Leu Val
```

<210> 22895
<211> 72
<212> PRT
<213> A.fumigatus

<400> 22895

```
Asn Met Pro Gln Ser Ser Ser Gln Met Glu Gly Arg His Gln Tyr Leu
1               5                   10                  15
Asn Gly Asn Pro Lys Ala Ile Phe Phe Thr Asp Phe Asp Gly Thr Val
            20                  25                  30
Thr Leu Gln Asp Cys Lys Gln Tyr Ile Leu Ala Leu Phe Thr Ser Ser
        35                  40                  45
Tyr Phe Ala Lys Pro Leu Leu Arg Ser Leu Ser Gly Asn Asp Tyr Leu
    50                  55                  60
Val Ile Thr Ser His Thr Asp Cys
65                  70
```

<210> 22896
<211> 170
<212> PRT
<213> A.fumigatus

<400> 22896

```
Gly Arg Leu Val Lys Asn Arg Arg Val Arg Pro Leu Leu Asp Pro Pro
1               5                   10                  15
Ser Leu Arg Ser Pro Pro Pro Leu Arg Arg Gln Arg Leu Arg Pro Leu
            20                  25                  30
Leu Pro Ser Pro His Arg Arg Arg Pro Arg Val Leu Pro Arg Pro His
        35                  40                  45
Arg Leu Pro Arg Ala Arg Gln Gln Pro Pro Arg Arg Arg Leu Ala Ile
    50                  55                  60
Arg Arg Leu Gly Asp His Leu Gly Arg His Arg Asp Pro Ser Arg Gln
65                  70                  75                  80
Arg Arg Pro His Ile Gly Pro Pro Val Lys Gln Thr His Leu Leu Gln
                85                  90                  95
Pro Pro Leu Arg Leu Arg Pro Gln Pro Ser Arg Ala Ala Pro Pro Arg
            100                 105                 110
Cys Arg Pro Thr Arg Pro Arg Ser Arg Val Tyr Arg Ala Arg Gly Ser
        115                 120                 125
Cys Pro Arg Ile Arg Ala His Ala Leu Leu Arg Arg Ala Leu Leu His
```

```
    130                 135                 140
Gly Phe His Gly Gly Asp Arg Arg Arg Gly Arg Leu Leu Ala Ala Leu
145                 150                 155                 160
Pro Gly Ile Arg Cys Val Ser Trp Cys Gly
                165                 170
```

<210> 22897
<211> 165
<212> PRT
<213> A.fumigatus

<400> 22897

```
Lys Ile Ala Gly Phe Ala Leu Tyr Trp Ile Leu Gln Val Cys Asp His
1               5                   10                  15
His Arg His Phe Gly Asp Ser Ala Tyr Ala Arg Ser Phe Leu Pro Arg
            20                  25                  30
Ile Asp Gly Val Leu Glu Phe Phe His Ala His Ile Asp Ser Leu Gly
        35                  40                  45
Leu Val Ser Asn Leu Pro Asp Asp Val Trp Gln Tyr Val Asp Trp Val
    50                  55                  60
Thr Thr Trp Gly Ala Thr Glu Thr His Pro Asp Lys Gly Val Pro Thr
65                  70                  75                  80
Ser Gly Arg Gln Ser Asn Arg His Thr Phe Phe Ser Leu Leu Tyr Ala
                85                  90                  95
Tyr Val Leu Asn Gln Ala Ala Gln Leu Leu His Asp Val Gly Arg Pro
            100                 105                 110
Gly His Ala Ala Glu Tyr Thr Ala Arg Ala Glu Ala Val Leu Ala Ser
        115                 120                 125
Val Arg Thr His Cys Tyr Asp Gly Arg Phe Phe Thr Asp Ser Thr Ala
    130                 135                 140
Ala Ile Ala Gly Glu Gly Ala Tyr Ser Gln His Cys Gln Val Phe Ala
145                 150                 155                 160
Val Leu Ala Gly Ala
                165
```

<210> 22898
<211> 203
<212> PRT
<213> A.fumigatus

<400> 22898

```
Val Leu Asp Asn Val Arg Arg Met Lys Gln Val Glu Phe Glu Met Asp
1               5                   10                  15
Ser Gln Ser Val Met Arg His Cys Cys Lys Leu Leu Thr Leu Asp Ser
            20                  25                  30
Val Gln Glu Gly Pro Glu Gly Arg Asn Phe Tyr Ile Leu Pro Lys Leu
        35                  40                  45
Leu Lys Met Gly Val Arg Pro Asp Arg Asp Met Met Asn Val Val Leu
    50                  55                  60
Ser Asn Ala Phe Lys Thr Gly Asp Glu Gln Leu Gly Leu Asp Met Leu
65                  70                  75                  80
Glu Tyr Met Lys Asn Asn Gly Leu Glu Pro Asp Ser Tyr Thr His Leu
                85                  90                  95
Ile Leu Leu Asn Asp Ala Val Ala Arg Gly Asn Arg Asp Arg Val Ser
            100                 105                 110
Ser Leu Ile Arg Glu Ile Glu Ser Asn Glu Glu Leu Leu Lys Asn Pro
```

```
        115                 120                 125
Trp Ile Ser Ser Lys Ile Phe His Ala His Phe Val Phe Thr Ala Lys
    130                 135                 140
His Ile Asn Pro Asp Asp Asp Pro Asp Ala Val Phe Tyr Ser Met Leu
145                 150                 155                 160
Glu Met Tyr Asn Lys Leu His Asp Ile Thr Pro Leu Lys Glu Leu Ser
                165                 170                 175
Ile Leu Pro Pro Glu Tyr Thr Pro Pro Pro Gly Gly Asp Asn Thr Pro
            180                 185                 190
Pro Thr Thr Ile Ala Leu Phe Phe Phe Thr Ser
        195                 200
```

<210> 22899
<211> 64
<212> PRT
<213> A.fumigatus

<400> 22899

```
Ala Ala Ala Met Ile Asn Tyr Asn Trp Ala Gln Asn Pro Ala Leu Leu
1               5                   10                  15
Ala Glu Pro Ile Asn Lys Gly Ile Ala Ala Leu Met Thr Ala Ile Val
            20                  25                  30
Trp Val Ser Ala Ala Trp Tyr Leu Lys Lys Gly Val Lys Thr Asn Gly
        35                  40                  45
Val Ala Val Ala Ala Met Gly Ala Leu His Ala Trp Ala Ala Phe Arg
    50                  55                  60
```

<210> 22900
<211> 158
<212> PRT
<213> A.fumigatus

<400> 22900

```
Phe Leu Gly Asp Gly Val Thr Asp Asp Thr Ala Ala Ile Asn Ala Ala
1               5                   10                  15
Met Ser Asp Gly Gly Arg Phe Ser Pro Ala Ser Arg Asp Ser Ser Thr
            20                  25                  30
Thr Thr Pro Ala Ile Val Tyr Phe Pro Ala Gly Thr Tyr Ile Ile Ser
        35                  40                  45
Ser Ser Ile Ile Asp Tyr Tyr Phe Thr Gln Ile Ile Gly Asn Pro Asn
    50                  55                  60
Ser Leu Pro Val Ile Lys Ala Thr Pro Gly Phe Thr Gly Leu Gly Leu
65                  70                  75                  80
Ile Asp Gly Asp Gln Tyr Gln Gly Asp Gly Asn Gln Gly Trp Ile Ser
                85                  90                  95
Thr Asn Val Phe Phe Arg Gln Ile Arg Asn Leu Ile Leu Asp Leu Thr
            100                 105                 110
Ala Ile Pro Pro Gly Thr Ala Ala Thr Gly Ile His Trp Pro Thr Gly
        115                 120                 125
Gln Ala Thr Ser Ile Gln Asn Val Gln Ile Lys Met Ser Ser Gly Ala
    130                 135                 140
Gly Thr Gln His Gln Gly Leu Phe Ile Glu Asn Gly Lys Pro
145                 150                 155
```

<210> 22901
<211> 163

<212> PRT
<213> A.fumigatus

<400> 22901
Arg Phe Ser Gly Ser Tyr Arg Val Val Glu Asp Thr Val Lys Glu Thr
1 5 10 15
Gln Leu Met Leu Ser Tyr Ser Pro Pro Val Ala Pro Ala Leu Arg Ser
20 25 30
Leu Ser Ile Ile Phe Pro Arg Gly Ser Phe Thr Asp Phe Val Arg Gly
35 40 45
Ser Asn Pro Asn Ser Glu Leu Thr His Gln Lys His Ser Val Leu Ser
50 55 60
Gly Leu Ser Thr Tyr Leu Glu Lys His Leu Ala Met Lys Leu Asn Leu
65 70 75 80
Gly Asp Leu Asp Ser Gly His His Pro Val Asn Gln Pro Val Arg Leu
85 90 95
Thr Lys Ile Ala Cys Gly Ser Phe Val Leu Ala Gly Asp Gly Lys Met
100 105 110
Lys Leu Val Ala Pro Ser Gly Gln Ala Gly Ser Ser Ser Glu Asp Gly
115 120 125
Ala Thr Ala Ala Arg Glu Ser Arg Asp Arg Leu Leu Ser Arg Ala Asn
130 135 140
Glu Ala Leu Leu Gln Ala Val Ile Arg Arg Ala Ala Met Thr Gly Asp
145 150 155 160
Glu Gln Thr

<210> 22902
<211> 182
<212> PRT
<213> A.fumigatus

<400> 22902
Thr Met Ser Gln Met Arg Ser Ser Pro Tyr Ser Thr His Ala Asn Lys
1 5 10 15
Glu Lys Gln Lys Ala Pro Leu Arg Lys Lys Ala Cys Gln Asn Cys Thr
20 25 30
Lys Ser Lys Val Arg Cys Gly Leu Glu Lys Pro Ile Cys Ser Arg Cys
35 40 45
Arg Ser Lys Gly His Ser Cys Gln Tyr Pro Pro Gly Arg Val Ala Ala
50 55 60
Pro Gln Ile Gly Val Thr Gly Thr Ala Asn Asp Ile Gly Glu Asp Tyr
65 70 75 80
Thr Ala Leu Leu Gly Ile Gln Gly Tyr Val Asp Ser Ala Ile Val Pro
85 90 95
Ala Pro Ala Ser Leu Ile Pro Glu Ser Gly Arg Ala Ala Ala Ser Arg
100 105 110
Ser Pro Arg Pro Arg Ala Val Thr Ser Gly Gln Thr Arg Arg Leu Asp
115 120 125
Leu Asp Phe Thr Asp Ile Asp Leu Thr Pro Ser Leu Asn Ala Val Asp
130 135 140
Ile Arg Asp Arg Trp Leu Arg Pro Tyr Leu Leu Pro Pro Leu Gly Arg
145 150 155 160
Asp Glu Ile Leu Lys Ala Tyr His Leu Phe Thr Leu Gln Val Leu Thr
165 170 175
Thr Glu Cys Arg Ser Pro

180

<210> 22903
<211> 165
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (156)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22903
Leu Met Gln Ser Leu Lys Ala Thr Thr Val Gln Gly Ile Glu Arg Leu
1 5 10 15
Ile Lys Thr Ala Ile Val Asp Lys Thr Pro Ser Val Ser Ser Ala Ala
20 25 30
Leu Val Ser Ser Tyr His Leu Leu Pro Ile Ala Arg Asp Val Val Arg
35 40 45
Arg Trp Gln Ser Glu Thr Gln Glu Ala Ala Ser Ala Ser Lys Ser Ser
50 55 60
Thr Gly Phe Leu Gly Phe Gly Gly Ser Ser Ser Ser His Ala Ile Ser
65 70 75 80
Gln Ser Asn Phe Met Thr Gln Tyr His Ala Ile Gly Leu Leu Phe Gln
85 90 95
Met Arg Ser His Asp Lys Met Ala Leu Val Lys Met Val Leu Gln Tyr
100 105 110
Gly Ala Ala Gly Val Val Met Ser Pro Ala Ala Leu Val Leu Leu Val
115 120 125
Arg Leu Thr Thr Asn Leu Ala Glu Glu Asp Pro Gly Leu Thr Lys Pro
130 135 140
Met Met Gln Met Leu Asp Gly Trp Leu Arg His Xaa His Glu Met Val
145 150 155 160
Asn Phe Asp Ala Ala
165

<210> 22904
<211> 101
<212> PRT
<213> A.fumigatus

<400> 22904
Tyr Val Arg Ile Trp Leu Ser Val Val Lys Thr Ser Asn Val Pro Thr
1 5 10 15
Asn Glu Ala Thr Thr Leu Phe Phe Gly Ile Ser Lys Leu Phe Gln Asn
20 25 30
Lys Asp Pro Ser Leu Arg Gln Met Val Tyr Leu Ile Leu Lys Glu Leu
35 40 45
Ala Asn Thr Ala Glu Asp Val Ile Met Ser Thr Ser Ile Ile Met Lys
50 55 60
Asp Thr Ala Val Gly Ser Asp Ile Leu Tyr Arg Ala Asn Ala Ile Arg
65 70 75 80
Ala Leu Cys Arg Ile Ile Asp Val Ser Ile Leu Arg Tyr Thr Thr Phe
85 90 95
Leu Lys Leu Ser Ser
100

<210> 22905
<211> 112
<212> PRT
<213> A.fumigatus

<400> 22905
Gln Ala Asn Phe Ser Pro Ala Lys Ile Gly Ile Thr Glu Tyr Ala Ala
1 5 10 15
Lys Ser Leu Gly Asp Val Val Phe Val Glu Leu Pro Asp Ala Asp Leu
20 25 30
Glu Val Ser Ala Gly Glu Ala Val Gly Ala Val Glu Ser Val Lys Ser
35 40 45
Ala Ser Asp Val Leu Ser Pro Val Ser Gly Lys Val Val Gln Gly Asn
50 55 60
Ser Val Leu Glu Asp Asn Ala Lys Phe Ile Asn Gln Ser Pro Glu Gly
65 70 75 80
Asp Ala Trp Ile Ala Lys Ile Glu Val Ser Asp Val Ala Glu Leu Asp
85 90 95
Gly Leu Leu Asp Glu Ala Ala Tyr Lys Ala Ser Ile Asp Ala Asp His
100 105 110

<210> 22906
<211> 74
<212> PRT
<213> A.fumigatus

<400> 22906
Phe Phe Arg Lys Phe Ile Leu Arg Thr Phe Asp Gln Ser Ile His Tyr
1 5 10 15
Trp Gln Ser Asp Val Glu His Phe Asn Ser Ile Ser Asp Ser His Ile
20 25 30
Ser Phe Gly Leu Asp Ile Ser Ser Arg Asp Gln Thr Ile Phe Met Ser
35 40 45
Asp Ala Val Leu Phe Tyr Ser Arg Asn Glu Ile Glu Tyr Leu Arg Leu
50 55 60
Ile Pro Glu Tyr Leu Thr Ala Lys Ala Ile
65 70

<210> 22907
<211> 94
<212> PRT
<213> A.fumigatus

<400> 22907
Leu Tyr Thr Ile Pro Ile Met Val Tyr Asn Tyr Pro Gly Val Ala Ala
1 5 10 15
Gly Leu Asp Val Asp Ser Asp Met Leu Val Lys Leu Ser Ala His Pro
20 25 30
Asn Ile Ser Gly Ala Lys Leu Thr Cys Gly Gly Ile Gly Lys Val Pro
35 40 45
Arg Val Thr Ala Ser Ala Val Arg Pro Phe Ser Val Leu Gly Gly Gln
50 55 60
Ile Asp Trp Met Gly Pro Ala Met Ala Val Gly Ala Val Gly Ala Ile
65 70 75 80
Thr Gly Met Ala Asn Leu Tyr Pro Arg Val Ser Ile Phe Phe

85 90

<210> 22908
<211> 82
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13),(14),(17)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22908
Ser Leu Asn Arg Lys Gly Lys Leu Glu Asp Ile Val Xaa Xaa Val Ser
1 5 10 15
Xaa Pro Asp Thr Ser Pro Gly Leu Asp Gly Cys Thr Ser Thr Tyr Gly
20 25 30
Ile Leu Ser Leu Ser Ile Ser Phe Leu Gln Gln Leu Asn Gln Leu Asn
35 40 45
Gly Gly Leu Val Tyr Ser Gly Val Gln Asn Cys Lys Thr Ser Pro Ser
50 55 60
Gln Gly Phe Lys Val Arg Asn Thr Leu Ala Glu Asn Thr Ser Glu Gly
65 70 75 80
Ser Leu

<210> 22909
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6),(19),(48),(113)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22909
Ser Val Ala Val Gln Xaa Leu Pro Arg Arg Leu Thr Cys Arg Arg Arg
1 5 10 15
Ile Pro Xaa Leu Arg Thr Ala Val Asn Thr Pro Asn Leu Ser Arg Ser
20 25 30
Ala Phe Gly Arg Asn Leu Ser Val Leu Leu Ala Asp Gln Ala Lys Xaa
35 40 45
Ala Val Arg Arg Arg Ile Ala Gly Val Leu Thr Ala Asn Val Asp Leu
50 55 60
Ser Glu Ala Leu Asn Glu Ala Ser Gly Lys Gly Lys Ile Thr Gly Leu
65 70 75 80
Thr Asn Ser Asp Val Phe Leu Phe Pro Ser Trp Tyr Glu Val Gln Ser
85 90 95
Ser Asn Thr Pro Pro Glu Phe Phe Trp Ala Leu Lys Val Pro Leu Lys
100 105 110
Xaa His Met Pro Leu Glu Ser Pro His Ile Glu Ile Pro Pro Glu Ala
115 120 125
Leu Lys Lys Trp Gly Pro Gly Leu
130 135

<210> 22910
<211> 210
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (174),(186)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22910
Tyr Glu Glu Arg Glu Pro Trp Ile Val Arg Lys Met Lys Cys Gly Tyr
1 5 10 15
Pro Arg Phe Phe Ile His Pro Val Ile Gln Asp Leu Ala Thr Glu Val
20 25 30
Val Lys Leu His Gly Asn Pro Lys Thr Glu Thr Ala Ser Leu Phe Pro
35 40 45
Ser Leu Lys Thr Ala Ser Val Cys Arg Ser Phe Ile Leu Ser Arg Ile
50 55 60
Ser Ser Gln Glu Ser Pro Arg Ile Arg Ile Val Asn Phe Val Pro Ala
65 70 75 80
Pro His Thr Glu Ser Arg Pro Gln Thr Ile Arg Ser Pro Leu Ser Cys
85 90 95
Val Ile Tyr Pro Thr Glu Tyr Ala Ser Ile Ala Lys Gln Val Trp Gln
100 105 110
His Ser Gly Asn Gly Ile Ser Ser Arg Arg Gly Glu Phe Cys Leu Ser
115 120 125
Ala Leu Arg Asp Gly Phe Leu Val Glu Asp Lys Glu Pro Ala Gln Val
130 135 140
Asp Gln Ser Ser Gln Lys Phe Ser Lys Gly Pro Arg Arg Tyr Gln Gly
145 150 155 160
Arg Gly Ser Ala Asn Glu Ile Val Arg Gly Gly Ser Val Xaa Ala Ser
165 170 175
Thr Pro Asp Leu Ser Ala Glu Asn Thr Xaa Thr Gln Asp Ser Cys Glu
180 185 190
Tyr Ala Gln Phe Ile Glu Glu Arg Phe Arg Pro Glu Leu Glu Arg Phe
195 200 205
Thr Gly
210

<210> 22911
<211> 113
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22911
Val Met Phe Gly Ala Leu Asn Arg Phe Ile Gly Arg Leu Asp Ala Glu
1 5 10 15
Pro Val Gln His Pro Arg Thr Pro Ser Gly Asp Asn Ala Phe Gly Xaa
20 25 30
Gln Val Leu Arg Asn Lys Asp Pro Glu Leu Pro Leu Glu Pro Trp Phe

```
        35                  40                  45
Asp Phe Ile Val Gly Ile Asn Gly His Ser Ile Val Arg Ala Leu Thr
    50                  55                  60
Phe Ala Ile Val Thr Glu Leu Thr Gly Arg Leu Gln Glu Asp Pro Asp
65                  70                  75                  80
Pro Asn Leu Phe Ala Thr Glu Val Arg Asn Cys Ala Gly Thr Ser Val
                85                  90                  95
Thr Phe Glu Ile Trp Ser Ala Lys Val Arg Met Asp Trp Thr Cys His
            100                 105                 110
Gln
```

<210> 22912
<211> 261
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (193),(201),(248),(251)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22912

```
Arg Thr Gln Gly Gln Lys Thr His Ser Val Ser Ile Pro Val Pro Ala
1               5                   10                  15
Ser Asn Pro Thr Leu Gly Leu Ala Leu Gln Leu Ala Pro Leu Ser Ser
            20                  25                  30
Thr Gln His Ile Trp His Val Leu Ser Ile Pro Ser Pro Leu Ser Pro
        35                  40                  45
Ala Tyr Arg Ala Gly Leu Leu Pro His Ser Asp Tyr Ile Ile Gly Thr
    50                  55                  60
Pro Ser Gly Thr Leu Arg Gly Asp Ala Ala Leu Gly Glu Leu Val Glu
65                  70                  75                  80
Asp His Leu Asn Arg Thr Leu Val Leu Trp Val Tyr Asn Ser Glu Phe
                85                  90                  95
Asp Val Val Arg Glu Val Glu Leu Val Pro Thr Arg Gly Trp Gly Gly
            100                 105                 110
Glu Gly Ala Leu Gly Ala Glu Leu Gly Tyr Gly Ala Leu His Arg Leu
        115                 120                 125
Pro Val Gly Leu Gly Glu Glu Val Glu Gly Pro Gly Glu Val Val Phe
    130                 135                 140
Glu Thr Arg Glu Asp Gly Thr Ser Ala Pro Met Ala His Ala Thr Asp
145                 150                 155                 160
Ala Gly Gln Thr Ala Asp Thr Gly Ala Gly Ser Phe Leu Val Pro Ala
                165                 170                 175
Asn Met Val Ser Pro Pro Pro Leu Ser Ala Pro Asn Arg Ala Leu Ser
            180                 185                 190
Xaa Ala Ser Pro Ser Asn Asn Arg Xaa Pro Ala Thr Pro Arg Gly Gly
        195                 200                 205
Arg Thr Arg His Met Gly Val Ser Pro Asn Leu Ala Phe Glu Glu Tyr
    210                 215                 220
Phe Gly Pro Gly Glu Gln Lys Ser Lys Gly Ala Gly Leu Tyr Pro Val
225                 230                 235                 240
Pro Gly Lys Gly Thr Pro Leu Xaa Ser Ala Xaa Gln Ala Pro Asn Arg
                245                 250                 255
Val Gly Phe Cys Trp
```

260

<210> 22913
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22913
Pro Ser Ser Ala Pro Ser Ala Pro Ser Pro Pro Gln Pro Arg Val Gly
1 5 10 15
Thr Ser Ser Thr Ser Leu Thr Thr Ser Asn Ser Leu Leu Tyr Thr Gln
20 25 30
Ser Thr Lys Val Arg Phe Arg Trp Ser Ser Thr Asn Ser Pro Ser Ala
35 40 45
Ala Ser Pro Arg Asn Val Pro Leu Gly Val Pro Ile Met
50 55 60

<210> 22914
<211> 60
<212> PRT
<213> A.fumigatus

<400> 22914
Arg Ala Val Gly Ile Asn Tyr Ile Thr Phe Ser Cys Phe Thr Ile Arg
1 5 10 15
Thr Lys His Tyr Pro Thr Ser Glu Glu Phe Arg Phe Pro Ser Ser Asn
20 25 30
Gly His His Gln Tyr Ile Met Ser Ser Ile Ile Gln Thr Ala Val Thr
35 40 45
Leu Lys Ser His Ser Ala Glu Ala Gln Phe Glu Cys
50 55 60

<210> 22915
<211> 97
<212> PRT
<213> A.fumigatus

<400> 22915
Leu Thr Leu Ser Ala Met Ser Gln Ile Glu Leu Phe Gly Asp Asn Glu
1 5 10 15
His Phe Thr Thr Leu Leu Ala Asp Gly Val Cys Ile Ala Thr Pro Thr
20 25 30
Gly Ser Thr Ala Tyr Asn Leu Ala Ala Gly Gly Ser Leu Cys His Pro
35 40 45
Glu Asn Pro Val Ile Leu Val Thr Ala Ile Cys Ala His Thr Leu Ser
50 55 60
Phe Arg Pro Ile Ile Leu Pro Asp Thr Ile Val Leu Arg Met Gly Val
65 70 75 80
Pro Tyr Asp Ala Arg Thr Ser Ser Trp Ala Ser Phe Asp Gly Arg Glu
85 90 95
Arg

<210> 22916
<211> 140
<212> PRT

<213> A.fumigatus

<400> 22916

```
Ala Gly Tyr Arg Leu Cys Ser Ala Pro Val Lys Ile Leu Tyr Thr Ser
1               5                  10                  15
Trp Leu Phe Gln His Val Val Pro Pro Val Leu Ser Phe Ser Leu Gly
            20                  25                  30
Ser Leu Gly Phe Leu Thr Arg Phe Asp Phe Asn Gln Tyr Gln Ser Thr
        35                  40                  45
Leu Glu Thr Ala Phe Lys Asp Gly Val Val Val Ser Leu Arg Leu Arg
    50                  55                  60
Phe Glu Cys Thr Ile Met Arg Ser Asn Arg Arg Ser Glu Asp Asp Ala
65                  70                  75                  80
Thr Asn Ile Thr Lys Arg Asp Leu Val Glu Glu Leu Ile Gly Glu Glu
                85                  90                  95
Met Glu Gly Thr Leu Thr His Arg Pro Asp Lys Val Phe Gln Ile Leu
            100                 105                 110
Asn Asp Val Val Leu Asp Arg Gly Pro Asn Pro Ser Lys Ser Ile Pro
        115                 120                 125
Glu Ala Leu Gly Leu Ala Trp Lys Trp Ala Pro Asp
    130                 135                 140
```

<210> 22917
<211> 189
<212> PRT
<213> A.fumigatus

<400> 22917

```
Phe Arg Ile Thr Cys Gln Arg Val Asp Gln Leu Met Val Asn Pro Gly
1               5                  10                  15
Asp Gly Ser Ala Glu Asn Ala Thr Glu Val Cys Phe Ala Phe Val Glu
            20                  25                  30
Trp Val Asn Arg Leu Glu Gln Trp Glu Gln Met Val Glu Arg Glu Glu
        35                  40                  45
Gly Gly Thr Tyr Glu Lys Ser Ser Glu Gly Glu Gln Ala Ala Gln Leu
    50                  55                  60
Ile Asp Pro Gly Ile Thr Gly His Thr Leu Trp Phe Pro Ser Val Thr
65                  70                  75                  80
Ile Ala Asn Val Leu Thr His Leu Trp Ala Ile His Ile Val Cys Leu
                85                  90                  95
Lys Glu Ile Asp Lys Leu Arg Ala Thr Phe Ser Ser Asn Val Glu Pro
            100                 105                 110
Cys Ile Pro Ala Lys Phe Cys Ser Val Glu Tyr Gln Gln Thr Gln Val
        115                 120                 125
Leu Thr Leu Ser Lys Arg Ile Cys His Ser Met Glu Tyr Leu Leu Gln
    130                 135                 140
Asp Glu Leu Lys Leu Phe Gly Pro Ala Ser Thr Ala Phe Pro Leu Lys
145                 150                 155                 160
Val Ala His Asp Ser Phe Arg Glu Cys Gly Thr Thr Gln Glu Gly Tyr
                165                 170                 175
Ile Lys Phe Val Asn Ser Arg Leu Arg Pro Leu Asp Ser
            180                 185
```

<210> 22918
<211> 187
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22918

```
Lys Thr Ala Cys Xaa Gln Pro Pro Phe Ser Pro Thr Glu Ala Pro Lys
1               5                  10                  15
Ala Ile Glu Pro Arg Lys Gly Glu Phe Ser Glu Lys Asn Asn Arg Ile
            20                  25                  30
Ser Ile Gln Ser Val Ser Ala Ser Ser Ser Ser Gly Gln Asp Pro Ala
        35                  40                  45
Ser Ser Ser Gly Cys Leu Ala Gly Gly Gly Cys Cys Cys Thr Ala Ala
    50                  55                  60
Val Glu Asp Glu Asp Glu Ile Thr Glu His Lys Cys Thr Cys Ser Gly
65                  70                  75                  80
Asn Ala Pro Ala Ser Glu Ser Ser Lys Pro Ile Pro Thr Ala Ala Ala
                85                  90                  95
Glu Thr Glu Glu Thr Arg Gln Leu Lys Ala Ser Ala Gln Pro Glu Pro
            100                 105                 110
Ala Gln Ser His His Leu Asn Leu Leu Ser Gly Arg Pro Gln Pro Arg
        115                 120                 125
Ile Ile Ile Arg Lys Val Leu Glu Lys Ala Glu Gly Glu Ser Ala Val
    130                 135                 140
Val Val Cys Gly Pro Glu Gly Leu Ser Asp Asp Val Arg Arg Ser Val
145                 150                 155                 160
Val Tyr Leu Ser Asp Glu Arg Ala Val His Lys Gly Thr Gly Ala Gln
                165                 170                 175
Gly Ile Tyr Leu His Val Glu Ala Phe Gly Trp
            180                 185
```

<210> 22919
<211> 198
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22919

```
Xaa Pro Asp Arg Leu Glu Arg Ser Ala Ala Ile Lys Cys Pro Thr Val
1               5                  10                  15
Leu Asn Gln Leu Ala Gly Ser Lys Ile Ile Gln Gln Val Leu Ala Glu
            20                  25                  30
Thr Ala Gly Pro Asp His Leu Ala Ser Phe Met Ala Asp Thr Asp Pro
        35                  40                  45
Ala Thr Ile Ala Arg Leu Arg Glu Thr Phe Ala Pro Gln Tyr Asp Leu
    50                  55                  60
Ser Ser Ser Gly Arg Gly Arg Glu Leu Ala Leu Asn Pro Glu Thr Ala
65                  70                  75                  80
Val Asn His Val Leu Lys Pro Gln Arg Glu Gly Gly Gly Asn Asn Val
                85                  90                  95
```

```
Tyr Lys Ser Ala Ile Pro Asp Phe Leu Arg Ser Ile Pro Glu Ser Glu
            100                 105                 110
Trp Lys Arg Trp Ile Leu Met Glu Leu Ile Arg Pro Pro Ala Glu Ala
        115                 120                 125
Lys Asn Val Ala Leu Arg Ser Asp Gly Glu Val Leu Ser Gly Lys Val
    130                 135                 140
Ile Gly Glu Leu Gly Ile Tyr Gly Thr Ile Leu Trp Asp Gln Ser Asn
145                 150                 155                 160
Gly Asn Val Leu Gln Asn Glu Gln Gly Gly Trp Leu Met Arg Thr Lys
                165                 170                 175
Ala Lys Asp Val Asn Glu Gly Gly Val Ala Thr Gly Phe Ser Ser Ile
            180                 185                 190
Asp Ser Ile Leu Leu Tyr
        195
```

<210> 22920
<211> 72
<212> PRT
<213> A.fumigatus

```
<400> 22920
Tyr Ser Ser Ile Asn Gln Ser Ile Ile Ala Leu Asp Pro Gln Thr Thr
1               5                   10                  15
Pro Pro Ile Leu Ala Ile Ala Val Arg Glu Gly Asp Ser Pro Phe Ser
            20                  25                  30
Ser Asn Asn Lys Thr Ser Ile Cys Ile Ile Ile Glu Leu Leu Arg Pro
        35                  40                  45
Cys Thr Ser Phe Arg Asp Glu Asp Asp His Glu Ser Thr Pro Arg Gly
    50                  55                  60
Trp Lys Asp Thr Arg Gly Val Tyr
65                  70
```

<210> 22921
<211> 131
<212> PRT
<213> A.fumigatus

```
<400> 22921
Gln Val Glu Pro Ile Leu Gln Cys Cys Arg Asn Trp Arg Ala Val His
1               5                   10                  15
Thr Ala Ala Gly Leu Ala Glu Leu Met Asn Asn Gln Gln Ala His Lys
            20                  25                  30
Thr Glu Gln Lys Gln Gly Asp Ile Glu Glu Gly Leu Lys Asn Asp Ser
        35                  40                  45
His Ala Lys Glu Arg Glu Thr His Gly Ile Glu Thr Pro Ser Asp Ser
    50                  55                  60
Ser Ser Thr Asp Asp Asp Lys Leu Gln Arg Asp Leu Thr Glu Ser Lys
65                  70                  75                  80
Ala Tyr Arg Asn Arg Arg Lys Val Ala Leu Val Gln Gly Leu Asn Arg
                85                  90                  95
Pro Phe Phe His Ile Asp Leu Thr Ser Ala Leu Gln Ser Ala Leu Ala
            100                 105                 110
Asn Ser Ala Pro Asp Leu His Val Asp Pro Ala Glu Val Asn Ala Thr
        115                 120                 125
Thr Asp Ala
    130
```

<210> 22922
<211> 270
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (174),(178),(181),(183),(186)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22922
Tyr Leu Ser Val Pro Leu His Tyr Leu Glu His Thr Lys Leu Thr Lys
1 5 10 15
Ser Arg Met Trp Ile Glu Leu Gly Gln Val Phe Asp Arg Leu Ser Gln
20 25 30
Asp Pro Ser Val Arg Ala Ile Val Leu Ser Gly Ala Gly Glu Lys Ala
35 40 45
Phe Thr Ala Gly Leu Asp Val Thr Ala Ala Ser Gln Gly Leu Leu Ser
50 55 60
Ala Asp Gly Asp Gln Ala Val Asp Pro Ala Arg Lys Ala Ala His Leu
65 70 75 80
Arg Arg His Ile Val Ser Phe Gln Asp Cys Ile Thr Ala Val Glu Arg
85 90 95
Cys Glu Lys Pro Val Ile Val Ala Met His Gly Phe Ser Leu Gly Leu
100 105 110
Ala Val Asp Leu Ser Thr Ala Ala Asp Val Arg Val Cys Thr Arg Asp
115 120 125
Thr Lys Phe Ala Val Lys Glu Val Asp Ile Gly Leu Ala Ala Asp Ile
130 135 140
Gly Thr Leu Ser Arg Leu Pro Lys Val Val Gly Ser Phe Gly Trp Ala
145 150 155 160
Lys Glu Val Ala Leu Thr Ala Arg Ile Phe Gly Ala Gly Xaa Ala Leu
165 170 175
Pro Xaa Gly Ser Xaa Thr Xaa Val Phe Xaa Ile Phe Ala Ala Val Phe
180 185 190
Val Arg Arg Pro Val Leu Cys Phe Pro Trp Leu Val Pro Leu Ser Leu
195 200 205
Ser Phe Arg Pro Phe Phe Ser Arg Phe Ser Ser Phe Pro Pro Pro Leu
210 215 220
Leu Pro Pro Val Leu Phe Val Pro Pro Leu Pro Val Val Ser Pro Leu
225 230 235 240
Leu Pro Ser Cys Phe Pro Leu Val Phe Ser Ser Leu Arg Phe Val Leu
245 250 255
Pro Pro Arg Leu Phe Pro Leu Ser Cys Pro Val Ser Phe Leu
260 265 270

<210> 22923
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22923
Ala Leu Ile Asn Arg Thr Glu Lys Leu Gln Thr Ser Leu Val Glu Ala
1 5 10 15
Arg Gln Asn His Asn Thr Met Ala Xaa Asn Asn Tyr Asn Ser Phe Lys
20 25 30
Tyr Phe Ile Ile Arg Phe Pro Ala Glu His Gln Tyr Val Ala His Val
35 40 45
Glu Ile Asn Arg Pro Asp Lys Met Asn Ala Phe Phe Glu Ala
50 55 60

<210> 22924
<211> 217
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (85),(88),(90),(93),(97)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22924
Gln Glu Arg Asn Arg Ala Gly Lys Arg Glu Lys Thr Gly Arg Glu Asp
1 5 10 15
Lys Pro Lys Gly Arg Glu His Glu Arg Glu Ala Arg Arg Lys Lys Gly
20 25 30
Arg Asn Asn Arg Lys Arg Gly Asp Glu Glu Asn Arg Arg Lys Lys Arg
35 40 45
Arg Arg Lys Gly Gly Glu Thr Gly Lys Lys Arg Ala Glu Gly Lys Gly
50 55 60
Glu Gly Asp Lys Pro Gly Glu Ala Lys Asn Gly Ala Thr Asp Lys Asp
65 70 75 80
Gly Gly Glu Asn Xaa Lys His Xaa Ser Xaa Arg Pro Xaa Gly Glu Arg
85 90 95
Xaa Ser Arg Pro Lys Tyr Pro Arg Arg Gln Cys His Phe Leu Arg Pro
100 105 110
Pro Lys Ala Pro Asp Asn Leu Arg Gln Pro Ala Gln Arg Pro Asn Ile
115 120 125
Arg Arg Lys Pro Asp Ile His Leu Leu Asp Gly Glu Leu Gly Val Pro
130 135 140
Arg Ala Asp Ala His Ile Arg Arg Arg Gly Gln Ile Asn Arg Gln Thr
145 150 155 160
Lys Arg Glu Ala Val His Arg Asp Asp Asp Gly Leu Leu Ala Ala Leu
165 170 175
Asp Gly Arg Asn Ala Val Leu Glu Gly Asp Asp Val Thr Ala Gln Met
180 185 190
Gly Arg Phe Ala Arg Arg Ile Asp Cys Leu Val Ala Val Cys Gly Gln
195 200 205
Glu Thr Leu Arg Cys Gly Gly Asp Val
210 215

<210> 22925
<211> 187
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (85),(88),(89),(92),(96)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22925
Arg Lys Glu Thr Gly Gln Glu Ser Gly Lys Arg Arg Gly Gly Arg Thr
1 5 10 15
Asn Arg Arg Glu Glu Asn Thr Arg Gly Lys Gln Glu Gly Arg Arg Gly
20 25 30
Glu Thr Thr Gly Arg Gly Gly Thr Lys Arg Thr Gly Gly Arg Arg Gly
35 40 45
Gly Gly Lys Glu Glu Lys Arg Glu Lys Lys Gly Arg Lys Glu Arg Glu
50 55 60
Arg Gly Thr Ser Gln Gly Lys Gln Arg Thr Gly Arg Arg Thr Lys Thr
65 70 75 80
Ala Ala Lys Met Xaa Asn Thr Xaa Xaa Thr Asp Xaa Arg Gly Ser Xaa
85 90 95
Ser Pro Ala Pro Asn Ile Leu Ala Val Ser Ala Thr Ser Phe Ala His
100 105 110
Pro Lys Leu Pro Thr Thr Leu Gly Asn Arg Leu Asn Val Pro Ile Ser
115 120 125
Ala Ala Ser Pro Ile Ser Thr Ser Leu Thr Ala Asn Leu Val Ser Arg
130 135 140
Val Gln Thr Arg Thr Ser Ala Ala Val Asp Arg Ser Thr Ala Arg Pro
145 150 155 160
Ser Glu Lys Pro Cys Ile Ala Thr Met Thr Gly Phe Ser Gln Arg Ser
165 170 175
Thr Ala Val Met Gln Ser Trp Lys Glu Thr Met
180 185

<210> 22926
<211> 214
<212> PRT
<213> A.fumigatus

<400> 22926
Phe Pro Asn Phe Ala Val Phe Phe Ser Ser Phe Ala His Phe Gly Thr
1 5 10 15
Met Arg Pro Phe Arg Leu Val Leu Leu Val Trp Pro Pro Leu Tyr Met
20 25 30
Leu Val Pro Tyr Leu Val Leu Leu Pro Ser Ile Leu Gln Thr Ala Ala
35 40 45
Val Tyr Val Thr Phe Ile Ser Lys Ile Thr Leu His Val Ile Ala Phe
50 55 60
Pro Ser Thr Ala Ile Leu Leu Ala Asn Ala Ala Pro Ser Ser Lys Val
65 70 75 80
Leu Gly Ser Ile Asn Gly Ala Ala Ala Ser Thr Ala Ser Leu Ser Arg
85 90 95
Ala Leu Gly Pro Thr Ile Thr Gly Leu Leu His Ser Lys Gly Leu Glu
100 105 110
Ser Gly Tyr Ser Ile Ile Ala Trp Trp Ala Cys Gly Leu Val Cys Val
115 120 125
Thr Gly Thr Ile Gln Ser Phe Trp Met Glu Glu Ser Glu Pro Arg Arg
130 135 140
Asp Ser Glu Lys Ala Gly Asn Ser Asp Ser Thr Ala Gly Ile Pro Met

```
145                 150                 155                 160
Arg Ser Ser Phe Pro Ala Gly Lys Glu Tyr Ala Thr Pro Glu Glu Glu
                165                 170                 175
Arg Arg Leu Leu Ser Ser Thr Arg Thr Ser Val Asp Asp Leu Asp Ile
            180                 185                 190
Ser Asn Leu Asp Leu Thr Gln Ile Glu Pro Ala Pro Arg Ser Asn Pro
        195                 200                 205
Leu Ala Phe Ala Glu Asp
    210
```

<210> 22927
<211> 216
<212> PRT
<213> A.fumigatus

<400> 22927

```
Lys Gly Thr Ala Pro Pro Leu Glu Gly Phe Ala Ile Ser Ile Asn Gly
1               5                   10                  15
Trp Asn Arg Cys Lys Ile Trp Gly Pro Lys Ser Gln Ser Leu Trp Pro
            20                  25                  30
Ile Met Tyr Ser Ser Ala Thr Asn Gly Arg Ser His Glu Leu Val Asp
        35                  40                  45
Gln Phe Pro Ser Pro Trp Ser Tyr Ser Gly Gln Gln Leu Ser Val Ile
    50                  55                  60
Gly Arg Ser Ser Leu Ala Ala Leu Pro Leu Ala Pro Lys Leu Pro Ile
65                  70                  75                  80
Pro Arg Ser Gly Ser Thr Pro Thr Ser Arg Gln Arg Thr Pro Arg Ala
                85                  90                  95
Cys Glu Leu Cys Arg Glu Arg Lys Thr Lys Cys Asp Gly Ala Lys Pro
            100                 105                 110
Ile Cys Lys Gln Cys Arg Leu Leu Lys Thr Ala Cys Thr Tyr Ser Gly
        115                 120                 125
Ser Lys Arg Glu Arg Gln Gln Leu Ala Ile Glu Cys Ala Arg Ala Lys
    130                 135                 140
Val Lys Val Tyr Glu Ser Val Leu Arg Gln Ile Tyr Glu Glu Ser Arg
145                 150                 155                 160
Glu Asn Gly Arg Thr Ser Ile Glu Glu Ile Phe His Val Ser Leu Ser
                165                 170                 175
Thr Cys Pro Tyr Arg Ala Leu Ser Tyr Tyr Pro Val Ser Gly Arg Ala
            180                 185                 190
Lys Val Val Thr Glu Thr Leu Ser Arg Phe Thr Arg Ile Ile Leu Phe
        195                 200                 205
Ala Pro Arg Leu Glu Val Ala Val
    210                 215
```

<210> 22928
<211> 201
<212> PRT
<213> A.fumigatus

<400> 22928

```
Val Val Thr Thr Phe Glu Ala Met Ala Val Ile Phe Thr Ala Ile Phe
1               5                   10                  15
Phe Asp Ala Glu Pro Val Lys Ser Phe Glu Leu Arg His Lys Ala Arg
            20                  25                  30
Glu Ala Ala Asn Lys Leu Gly Arg Leu Val Glu Leu Asn Val Lys Ala
```

```
        35                  40                  45
Ile Lys Ser Ser Gly Leu Ile Ala Thr Leu Leu Gly Asn Met Pro Ala
    50                  55                  60
Asn Arg Asn Ala Leu Phe Glu Tyr Gly Val His Met Val Glu Arg Leu
65                  70                  75                  80
Leu Gln Ser Gly Leu Asp Pro Glu Gln Val Thr Trp Ser Gln Val Leu
                85                  90                  95
Pro Thr Ala Val Ala Met Val Pro Asn Gln Ala Gln Val Phe Thr Gln
            100                 105                 110
Ile Ile Asp Tyr Tyr Leu Ser Asp Lys Gly Arg Lys His Leu Pro Asp
        115                 120                 125
Ile Lys Arg Phe Ala Lys Glu Asp Ser Pro Ala Ser Asp Glu Val Leu
    130                 135                 140
Leu Arg Tyr Cys Met Glu Ala Ile Arg Leu Asn Gly Ile Phe Gly Ser
145                 150                 155                 160
Tyr Arg Lys Ser Gln Thr Asn Leu Thr Leu Asp Asp Lys Arg Gly Lys
                165                 170                 175
Val His Ile Lys Ala Gly Asp Asn Val Phe Val Ser Phe Val Cys Leu
            180                 185                 190
Leu Cys Arg Ile Ala Ile Val Arg Cys
        195                 200
```

<210> 22929
<211> 162
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (93)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22929

```
Asn Val Pro Arg Phe Ser Ala Thr Leu Asn Gly Ala Ala Val Leu Leu
1               5                   10                  15
Arg Ile Ser Ser Thr Val Thr Pro Ser Ala Val Ser Ala Arg Val Arg
            20                  25                  30
Pro Ser Val Gly Leu Thr Ser Lys Thr Ala Arg Ser Val Met Ile Phe
        35                  40                  45
Gln Thr Gln Arg Gly Pro Val Arg Gly Lys Val His Ser Gly Lys Ile
    50                  55                  60
Leu Gly Leu Pro Phe Leu Ser Val Cys Ser Met Val Thr Thr Thr Leu
65                  70                  75                  80
Val Phe Ser Gly Leu Ala Thr Arg Ser Met Ala Pro Xaa Thr Pro Leu
                85                  90                  95
Thr Leu Pro Gly Ser Ile Lys Phe Ala Arg Ser Pro Tyr Arg Val Thr
            100                 105                 110
Cys Arg Ala Pro Ser Met Val Arg Ser Asn Arg Pro Ala Arg Ile Ile
        115                 120                 125
Pro Lys Leu Ser Trp Glu Pro Lys Thr Glu Ala Pro Glu Leu Arg Met
    130                 135                 140
Thr Val Ser Leu Pro Asp Leu Ile Arg Ser Gly Ser Ser Ser Pro Gly
145                 150                 155                 160
Leu Gly
```

<210> 22930
<211> 63
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22930
Thr Leu Ser Arg Ser Trp Arg Leu Gly Leu Xaa Thr Arg Arg Tyr Val
1 5 10 15
Asp Lys Val Ile Gln Ser Thr Glu Lys Ile Met Ile Glu Lys Leu Thr
20 25 30
Phe Ala Lys Asp Pro Ser Glu Met Leu Gln Ala Gly Met Gln Ala Ser
35 40 45
Ile Ile Leu Ile Leu Tyr Leu Arg Ala Asn Cys Ser Arg Ile Trp
50 55 60

<210> 22931
<211> 111
<212> PRT
<213> A.fumigatus

<400> 22931
Gly Tyr Arg Ser Pro Arg Thr His Arg Gln Ala Arg Arg Gln Arg Thr
1 5 10 15
Pro Gly Leu His Val Arg Gln Pro Arg Cys Arg Tyr Pro Pro Asp Gln
20 25 30
Pro Arg Leu Pro Pro Arg Arg Arg Gln Asn Cys Pro Ser Gly Arg Gln
35 40 45
Trp Asp Pro Arg Ser Gly Ser Leu Thr Gln Ala Arg Arg Gly Gly Ser
50 55 60
Arg Pro Asp Gln Val Gly Gln Gly Asn Arg His Pro Glu Leu Arg Arg
65 70 75 80
Leu Arg Leu Arg Leu Pro Arg Lys Phe Arg Tyr Asp Pro Arg Trp Pro
85 90 95
Ile Arg Ser His His Ala Arg Cys Pro Ala Arg Tyr Pro Ile Arg
100 105 110

<210> 22932
<211> 68
<212> PRT
<213> A.fumigatus

<400> 22932
Tyr Tyr Ile Ser Val Leu Thr Ala Pro Gly Ser Gly Glu Ala Thr Ala
1 5 10 15
Arg Arg Glu His Ile Val Lys Arg Ala Ala Asn Glu Leu Gln Asp Cys
20 25 30
Met Phe Val Asn Leu Gly Val Gly Ile Pro Leu Ile Asn Pro Ala Tyr
35 40 45
Leu Pro Glu Gly Val Lys Ile Val Leu Gln Ala Asp Asn Gly Ile Leu
50 55 60
Gly Leu Gly Pro

65

<210> 22933
<211> 162
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (70)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22933
Pro Lys Pro Gly Glu Glu Asp Pro Asp Leu Ile Lys Ser Gly Lys Glu
1 5 10 15
Thr Val Ile Leu Ser Ser Gly Ala Ser Val Phe Gly Ser His Glu Ser
20 25 30
Phe Gly Met Ile Arg Ala Gly Arg Phe Asp Leu Thr Met Leu Gly Ala
35 40 45
Leu His Val Thr Arg Tyr Gly Asp Leu Ala Asn Phe Met Leu Pro Gly
50 55 60
Lys Val Lys Gly Val Xaa Gly Ala Met Asp Leu Val Ala Asn Pro Glu
65 70 75 80
Lys Thr Lys Val Val Val Thr Met Glu His Thr Asp Lys Lys Gly Asn
85 90 95
Pro Lys Ile Leu Pro Glu Cys Thr Phe Pro Leu Thr Gly Pro Arg Cys
100 105 110
Val Trp Lys Ile Ile Thr Asp Leu Ala Val Phe Asp Val Ser Pro Thr
115 120 125
Glu Gly Leu Thr Leu Ala Glu Thr Ala Glu Gly Val Thr Val Asp Glu
130 135 140
Ile Arg Ser Lys Thr Ala Ala Pro Phe Lys Val Ala Glu Asn Leu Gly
145 150 155 160
Thr Phe

<210> 22934
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22934
Ile Arg Leu Thr Gln Gly Pro Ile Met Leu Trp Ser Asn Val Pro His
1 5 10 15
Tyr Phe Lys Val Ile Trp Leu Pro His Ala Ile His Val Met Pro Ile
20 25 30
Thr Glu Tyr Tyr Val Ile Phe Ile Gln Thr Phe Leu Phe Tyr Leu Val
35 40 45
Tyr Ser Gln Asn Val Phe Leu Gly Leu Lys Thr Glu Ser
50 55 60

<210> 22935
<211> 98
<212> PRT
<213> A.fumigatus

<400> 22935
Arg Tyr Gly Pro Leu Leu Asp Ser Thr Ser Leu Asp Lys His Thr Thr
1 5 10 15
Leu Ser Phe Ser Tyr Glu Ser Tyr Leu Pro His Ile Ile Phe Cys Glu
20 25 30
His Asp Phe Leu His Thr Ser Leu Asp Met Ser Gln Pro Thr Thr Asp
35 40 45
Leu Ile Ile Gln Leu Gln Leu Gln His Ala Asp His Tyr Phe Glu Ala
50 55 60
Ser Lys Gly Asn Arg Ala Thr Pro Arg Thr Lys Ser Tyr Ser Ser Val
65 70 75 80
Asn Arg Arg Asn Cys Lys Val Phe Ile Ser His Leu Trp Ile Asp Glu
85 90 95
Trp Pro

<210> 22936
<211> 232
<212> PRT
<213> A.fumigatus

<400> 22936
Glu His Ile Met Ala Asp Lys Asp Ala Ser Ser Thr Pro Asn Thr Asn
1 5 10 15
Thr Ile Tyr Ala Gln Ser His Arg Asn Gln Thr Tyr Ser Ile Thr Asn
20 25 30
Asn Pro Pro Ser Glu Glu His Pro Arg Arg Ala Leu Lys Pro Gly Val
35 40 45
Tyr Ile Pro Leu Leu Ala Phe Phe Ala Pro Glu Thr Glu Glu Leu Asp
50 55 60
Glu Ser Thr Val Ala Gln His Ala Ile Arg Met Ala Lys Ala Gly Ala
65 70 75 80
Met Gly Leu Ile Thr Gln Gly Thr Tyr Gly Glu Ala Ala His Leu Ser
85 90 95
His Thr Glu Arg Ala Arg Ile Asn Arg Thr Thr Arg His Ala Val Ala
100 105 110
Ala Ala Gly Tyr Pro Gln Leu Pro Leu Ile Ala Gly Cys Gly Ala Pro
115 120 125
Ser Thr Ser Glu Thr Ile Glu Leu Cys His Asp Ala Phe Glu Ser Gly
130 135 140
Ala Asp Tyr Ala Leu Val Leu Pro Pro Ser Thr Tyr Lys Ala Gln Tyr
145 150 155 160
Thr Leu Pro Ser Leu Lys Ala Tyr Phe Glu Asp Val Ala Gly Ala Ser
165 170 175
Pro Ile Pro Val Leu Val Tyr Asn Tyr Pro Ala Val Met Gly Val Asp
180 185 190
Leu Asp Ala Glu Thr Leu Val Ser Leu Ala Glu Gln Pro Asn Leu Val
195 200 205
Gly Cys Lys Leu Thr Cys Asn Asp Ile Gly Lys Leu Ser Ser Thr Pro
210 215 220
Ser Gly Arg Arg Asn Glu His Gly
225 230

<210> 22937
<211> 276
<212> PRT

<213> A.fumigatus

<400> 22937

```
Phe Gly Ile Arg Ala Thr Leu Asn Val Phe Trp Arg Phe Val Trp Asp
1               5                  10                  15
Ile Leu Gln Asp Asn Ala Asn Leu Gln Met Gly Ile Ile Glu Leu Arg
            20                  25                  30
Glu Met Phe Glu Ser Ser Asn Gln Glu Val Gln Asn Leu Arg Asp Gln
        35                  40                  45
Ile Leu Ser His Gln Pro Leu Thr Ser Thr Gly Glu Ile Asp Glu Arg
    50                  55                  60
Glu Pro Arg Pro Ser Ser Ile Thr Leu Asn Asn Glu Leu Glu Ser Lys
65                  70                  75                  80
Glu Ser Arg Arg Val Ser Gln Glu Phe His Ile His His His Tyr His
                85                  90                  95
Thr Pro Ala Ile Ser Val Gly Ser Lys Lys Glu Lys Ser Thr Ile Phe
            100                 105                 110
Arg Arg Ser Lys Lys Arg Arg Ser Leu Gly Ala Thr Thr Val Met His
        115                 120                 125
Ser Ala Ser Thr Ser Gln Ala Ser Arg Lys Phe Ser His Gln His Gln
    130                 135                 140
Ser Ser Ile Ser Ser Thr Ser Thr Ile Leu Ser Gln Thr Ser Val Ser
145                 150                 155                 160
Ile Pro Pro Ala Ala Ala Ser Arg Arg Trp Ser Leu Gln Ser Pro Ala
                165                 170                 175
Ala Asp Ser Ser Leu Ala Ser Ser Pro Gln Ser Gly Tyr Arg Ala Ser
            180                 185                 190
Ser Ile Phe Asp Arg Val Glu Arg Gly Cys Glu Ser Ser Gln Pro Thr
        195                 200                 205
Ser Pro Glu Ser Thr Ala Val Ser Ser Pro Val Met Ala Ser Arg His
    210                 215                 220
Lys Asn Val Pro Phe Asp Val Pro Phe Arg Pro Leu Asp Gly Leu Glu
225                 230                 235                 240
Arg Thr Glu Arg Val Gly Asp Asp Ser Met His Leu Ala Tyr Asp Asp
                245                 250                 255
Ser Gly Asp His Pro Asn Asn Val Pro His Glu Gly Gln Gly Ser Ala
            260                 265                 270
Gln Ser Tyr Gly
        275
```

<210> 22938
<211> 108
<212> PRT
<213> A.fumigatus

<400> 22938

```
Met Glu Leu Leu Arg Arg Arg Ala Asn Pro Asp Val Glu Asp Ser Tyr
1               5                  10                  15
Gly Phe Ala Leu Thr Gln Ala Ile Arg Gly Gly Asn Val Glu Leu Ala
            20                  25                  30
Met Glu Leu Leu Arg Arg Gly Ala Asn Pro Asn Ala Glu Asp Ser Tyr
        35                  40                  45
Gly Phe Ala Leu Thr Gln Ala Ile Arg Gly Gly Asn Val Glu Leu Ala
    50                  55                  60
Val Glu Leu Leu Arg Arg Gly Ala Asn Pro Asn Val Glu Asp Ser Tyr
65                  70                  75                  80
```

Gly Ser Ala Ile Thr Gln Ala Arg Gly Ser Gly Ser Lys Arg Leu Glu
85 90 95
Glu Ala Phe Leu Gly Cys Phe Ser Asp Phe Cys Gly
100 105

<210> 22939
<211> 251
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22939
Phe Gly Thr Leu Arg Phe Arg Thr Phe Val Ala Ser Ser Pro Met Glu
1 5 10 15
Asn Tyr Thr Ile Pro Leu Glu Lys Ala Val Asp Xaa Met Pro Val Ser
20 25 30
Ser Gln Leu Val Arg Leu Phe Ser Pro Val Val Phe Pro Cys Ser Gly
35 40 45
Thr Arg Ser Phe Pro Ile Gln Tyr Thr Glu Leu Arg Pro Gln Asp Thr
50 55 60
Phe Thr Asn Ala Gln Ala Leu Trp Ser Phe Val Gly Gly Tyr Gly Val
65 70 75 80
Tyr Gly Gly Ser Thr Val Ala His Cys Leu Val Ala Ala Gln Lys Thr
85 90 95
Ile Pro Ser Asp Tyr Val Ala His Ser Leu Tyr Cys Ser Phe Val Pro
100 105 110
Pro Ala Asn Pro Lys Gln Arg Ile Glu Tyr Arg Val Glu Arg Thr Arg
115 120 125
Asp Gly Lys Ser Phe Leu Thr Arg Thr Val His Ala Thr Gln Lys Ala
130 135 140
Lys Val Ile Ser Ala Ser Ile Val Asn Phe Val Arg Ala Gly Thr Tyr
145 150 155 160
Ser Lys Ser Ser Asp Thr Asp Arg Ala Gly Arg Leu Glu His Gly Pro
165 170 175
Lys Arg Pro Glu Gly Leu Thr Val Pro Asp Glu Ala Glu Met Asp Gly
180 185 190
Lys Gly Ile Asp Gly Pro Phe Glu Met Arg Trp Gly Glu Val Val Tyr
195 200 205
Arg Gly Ser Phe Pro Gly Ser Ser Arg Ala Trp Gly Leu Leu Ala Leu
210 215 220
Trp Thr Cys Leu Asp Leu Arg Trp Ile Asn Arg Lys Val Arg Arg Leu
225 230 235 240
Gly Pro His Ser Asp Pro Ile Leu Asp Ala Ser
245 250

<210> 22940
<211> 80
<212> PRT
<213> A.fumigatus

<400> 22940
Thr Glu Arg Ser Asp Asp Leu Val His Thr Arg Ile Arg Tyr Trp Met

```
1               5                   10                  15
Arg Ala Lys Glu Pro Met Gln Gln Thr Asp Pro Gln Val Gln Leu Ala
            20                  25                  30
Ala Leu Ser Tyr Met Ser Asp Ala Tyr Phe Ile Gly Ala Ala Val Gln
        35                  40                  45
Val Tyr Asp Val Pro Gly Gln Thr Phe Gly Thr Lys Met Ala Met Ala
    50                  55                  60
Ala Ser Leu Asn His Ala Ile Tyr Phe His His Pro Asp Ala Gly Phe
65                  70                  75                  80
```

<210> 22941
<211> 139
<212> PRT
<213> A.fumigatus

<400> 22941

```
Asn Thr Val Gly Ser Phe Gln Pro Arg Gly Glu Asp Pro Leu His Val
1               5                   10                  15
Gln Leu Thr Leu Ser His Phe Ala Met Ser Ser Ala Asp Leu Gly Val
            20                  25                  30
Asp Glu Ser Phe Ala Gln Lys Met Val Arg Thr Thr Met Asp Val Asp
        35                  40                  45
Cys Pro Pro Trp Leu Asp Phe Leu His Gly Gly Leu Asn Phe Gln Val
    50                  55                  60
Val His His Leu Phe Pro Arg Leu Pro Arg His Asn Leu Arg Arg Ala
65                  70                  75                  80
Gln Pro Tyr Val Lys Glu Phe Cys Arg Asp Val Gly Ile Pro Tyr Val
                85                  90                  95
Ile Phe Gly Phe Thr Arg Gly Asn Lys Glu Val Ile Ser Arg Leu Gly
            100                 105                 110
Glu Val Ala Asp Gln Leu Arg Val Leu Glu Glu Cys Arg Lys Val Ala
        115                 120                 125
Ala Lys Asp Leu Ile Gly Gly Arg His Gly Arg
    130                 135
```

<210> 22942
<211> 88
<212> PRT
<213> A.fumigatus

<400> 22942

```
His Leu Ser Arg Ser Arg Ala Asn Leu Thr Ile Leu Gly Ser Phe Thr
1               5                   10                  15
Gly Leu Phe Cys Thr Val Gly Phe Leu Asn Ser Phe Gly Ala Phe Gly
            20                  25                  30
Glu Tyr Tyr Ala Lys Asn Gln Leu Ala Asn Lys Ser Glu Ser Thr Ile
        35                  40                  45
Ala Trp Leu Gly Ala Leu Ser Ile Phe Phe Val Leu Ser Val Ser Val
    50                  55                  60
Val Ser Gly Pro Ile Leu Asp Ala Phe Gly Pro Arg Val Arg Pro Pro
65                  70                  75                  80
Tyr Ile Leu Glu Met Leu Cys Ser
                85
```

<210> 22943
<211> 194

<212> PRT
<213> A.fumigatus

<400> 22943
Leu Trp Ser Ser Ser Asp Cys Arg His Gly His Gly Val Arg Arg Tyr
1 5 10 15
Val Phe Pro Thr Pro Leu Gln Ala Pro Arg Leu Thr Thr Pro Gly Pro
20 25 30
Leu Met Val Ala Lys Ser Val Gln Gln Tyr Ile Gln Ala Gly Val Ala
35 40 45
Gly Phe His Ile Glu Asp Gln Ile Gln Asn Lys Arg Cys Gly His Leu
50 55 60
Ala Gly Lys Lys Val Val Ser Met Asp Glu Tyr Leu Thr Arg Ile Arg
65 70 75 80
Ala Ala Lys Gln Thr Lys Asp Arg Leu Arg Ser Asp Ile Val Leu Ile
85 90 95
Ala Arg Thr Asp Ala Leu Gln Gln His Gly Tyr Asp Glu Cys Ile Arg
100 105 110
Arg Leu Lys Ala Ala Arg Asp Leu Gly Ala Asp Val Gly Leu Leu Glu
115 120 125
Gly Phe Thr Ser Lys Glu Met Ala Arg Gln Ala Val Gln Asp Leu Ala
130 135 140
Pro Trp Pro Leu Leu Leu Asn Met Val Glu Asn Gly Ala Gly Pro Val
145 150 155 160
Ile Thr Thr Lys Glu Ala Lys Glu Met Gly Phe Arg Ile Met Ile Phe
165 170 175
Ser Phe Ala Ser Leu Ala Pro Ala Tyr Leu Gly Ile Lys Ser Ala Leu
180 185 190
Glu Arg

<210> 22944
<211> 109
<212> PRT
<213> A.fumigatus

<400> 22944
Gly Thr Thr Asp Thr Ile Ser Asn Gly Lys Met Phe Tyr Gly Ile Leu
1 5 10 15
Gly Asp Ser Asn Gly Asp Ser Pro Gln Val Thr Gly Glu Ala Ser Trp
20 25 30
Leu Met Ala Arg Thr Cys Phe Pro Asn Glu Gly Leu Asn Gly Asn Asn
35 40 45
Gly His Thr Gly Val Asp Val Thr Cys Met Phe Phe Ser Ala Ile Ala
50 55 60
Leu Pro Ala Leu Met Gln Ala Asp Ile Val Phe Thr Gly Lys Asn Ala
65 70 75 80
Val Leu Pro Ser Ser Ala Leu Thr Lys Asn Tyr Ile Thr Asn Leu Ser
85 90 95
Ser Pro Arg Gly Trp Lys Asp Pro Thr Val Cys Glu Asp
100 105

<210> 22945
<211> 164
<212> PRT
<213> A.fumigatus

<400> 22945
Pro Thr Tyr Ser Pro Val Leu Ser Ser Ser Pro Thr Leu Ser Ser Val
1 5 10 15
Ser Ser Ser Ile Trp Ser Cys Val Val Trp Glu Lys Trp Pro Leu Gly
20 25 30
Cys Pro Cys Pro Pro Ala Ser Leu Ala Met Pro Ser Val Ser Val Thr
35 40 45
Leu Leu Leu Asp Ser Pro Leu Val Gly Arg Met Ser Ile Tyr His Gly
50 55 60
Leu Pro Ser Arg Leu Arg Arg Val Ala Asp Thr Phe Gly His Tyr Arg
65 70 75 80
Tyr Trp Phe Lys Tyr Ile Ile Val Thr Pro Asn Gln Leu Thr Ala Gly
85 90 95
Ala Leu Val Ile Ser Phe Trp Ile Asp Ala Ser Arg Val Asn Ala Gly
100 105 110
Val Trp Ile Thr Val Phe Leu Val Leu Ile Ile Ser Ile Asn Tyr Phe
115 120 125
Gly Ile Arg Phe Phe Gly Glu Phe Glu Phe Trp Leu Ser Ser Phe Lys
130 135 140
Val Ile Val Ile Val Gly Leu Ile Leu Leu Ser Phe Ile Leu Met Leu
145 150 155 160
Gly Gly Gly Pro

<210> 22946
<211> 75
<212> PRT
<213> A.fumigatus

<400> 22946
Gln Leu Thr Asn Leu Gln Pro Gly Ser Ile Leu Ile Ser Tyr Ser Phe
1 5 10 15
Val Gly Phe Ile Val Tyr Leu Val Met Cys Gly Leu Gly Glu Met Ala
20 25 30
Thr Trp Leu Pro Met Pro Ser Gly Phe Thr Gly Tyr Ala Val Arg Phe
35 40 45
Cys Asp Pro Ala Leu Gly Phe Ala Ile Gly Trp Thr Tyr Val Asn Leu
50 55 60
Ser Trp Phe Thr Val Lys Thr Ala Ser Arg Arg
65 70 75

<210> 22947
<211> 131
<212> PRT
<213> A.fumigatus

<400> 22947
Thr Ser Ile Ile Met Ala Glu Val Ala Glu Asn Gly Pro Val Pro Val
1 5 10 15
Asn Asn Glu Asn Thr Ala Pro Gly Ala Ala Thr Glu Glu Lys Glu Gln
20 25 30
Thr Glu Lys Thr Glu Gln Thr Asn Gly Asp Ala Val Thr Val Phe His
35 40 45
Asp Pro Glu Asn Phe Asn Val Lys His Pro Leu Met His Glu Trp Thr
50 55 60

```
Leu Trp Phe Thr Lys Pro Pro Ser Gly Lys Val Arg Ala Ile Ala Ile
65                  70                  75                  80
Asp Ile Arg Val Asp Ser Leu Thr Leu Phe Asp Leu Gln Gly Asp Asn
                85                  90                  95
Trp Asn Asp Leu Leu Lys Glu Val Val Thr Phe Asn Ser Val Glu Glu
            100                 105                 110
Phe Trp Gly Ile Tyr Val Arg His Phe Ile Tyr Arg Cys Leu Ser Gly
        115                 120                 125
Glu Leu Tyr
    130
```

<210> 22948
<211> 133
<212> PRT
<213> A.fumigatus

```
<400> 22948
Asn Asn Ile Thr Pro Thr Ser Glu Leu Gly Leu Lys Ala Asp Tyr His
1               5                   10                  15
Leu Phe Lys Lys Gly Ile Arg Pro Glu Trp Glu Asp Pro Gln Asn Lys
            20                  25                  30
His Gly Gly Lys Trp Ser Tyr Ser Phe Lys Asp Lys Arg Ser Val Pro
        35                  40                  45
Ile Asp Asp Leu Trp Leu His Ala Gln Leu Ala Ala Ile Gly Glu Thr
    50                  55                  60
Leu Glu Asn Asp Gly Asp Asn Glu Val Met Gly Val Val Val Asn Val
65                  70                  75                  80
Arg Lys Gly Phe Tyr Arg Val Gly Leu Trp Thr Arg Thr Val Gly Lys
                85                  90                  95
Ser Ile Pro Gly Asp Lys Asn Gly Arg Thr Pro Ala Gln Gly Lys Glu
            100                 105                 110
Ile Leu Glu Asn Ile Gly Arg Arg Phe Lys Glu Val Leu Arg Leu Lys
        115                 120                 125
Glu Thr Asp Val Val
    130
```

<210> 22949
<211> 169
<212> PRT
<213> A.fumigatus

```
<400> 22949
Asp Ala Gly Val Ser Thr Val Leu Gly Leu Cys Val Phe Ile Leu Ser
1               5                   10                  15
Ile Leu Ser Leu Tyr Trp Ala Val Gln Phe Arg Ser Glu Asp Arg Leu
            20                  25                  30
His Thr Leu Thr Val Trp Val Val Asp Phe Asp Asn Gln Val Asp Pro
        35                  40                  45
Tyr Arg Asn Glu Ser Ile Thr Pro Ile Val Gly Pro Ala Val Thr Asp
    50                  55                  60
Val Ala Asn Arg Leu Ile Lys Ser Glu Arg Glu His Val Gly Tyr Glu
65                  70                  75                  80
Ile Arg Ser Pro Ala Asp Phe Asn Phe Asp Pro Trp Ala Val Arg Gln
                85                  90                  95
Gly Val Tyr Asp Glu His Ala Tyr Ala Ala Ile Ile Val Asn Pro Asn
            100                 105                 110
```

```
Ala Thr Thr Leu Leu Tyr Glu Ala Val Thr Asn Gly His Ser Ser Tyr
        115                 120                 125
Asp Pro Thr Gly Ala Ala Gln Phe Ile Ile Ile Ser Ala Arg Asp Gln
    130                 135                 140
Ala Thr Tyr Ser Asn Tyr Ile Glu Pro Ala Leu Ser Trp Phe Gln Leu
145                 150                 155                 160
Glu Val Phe Ala Glu Phe Gly Pro Arg
                165
```

<210> 22950
<211> 98
<212> PRT
<213> A.fumigatus

<400> 22950

```
Pro Cys Leu Gln Lys Ser Arg Lys Ala Met Ala Asp Ser Ser Asp Tyr
1               5                   10                  15
Pro Asp Phe Arg Phe Val Lys Leu Ala Ile Gly Val Pro Asp Met Thr
            20                  25                  30
Lys Ala Met Glu Tyr Ile Arg Ser His Asn Val Arg Ile Leu Lys Glu
        35                  40                  45
Ala Gly Val Thr Gln Gly Ser Glu Val Val Ala Thr Phe Leu Gly Cys
    50                  55                  60
Asp Met Pro Asp Lys Gly Phe Asp Arg Pro Leu Trp Glu Ala Ala Val
65                  70                  75                  80
Ala Val Pro Phe Val Glu Asp Pro Asp Gly Tyr Leu Ile Glu Ile Ile
                85                  90                  95
Pro Tyr
```

<210> 22951
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(4),(5),(8),(11),(19),(49),(51),(60),(66),(75),(88)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22951

```
Glu Xaa Asn Xaa Xaa Glu Arg Xaa Glu Tyr Xaa Arg Ile Pro Glu Arg
1               5                   10                  15
Lys Lys Xaa Glu Lys Glu Lys Leu Ser Ala Val Ser Glu Tyr Pro Leu
            20                  25                  30
Arg Phe Glu Trp Ala Ser Trp Glu Leu Gly Asn Leu Pro Lys Asn Ala
        35                  40                  45
Xaa Asn Xaa Leu Pro Gln Lys Gly Pro Asn Ser Xaa Asn Gly Lys Ala
    50                  55                  60
Val Xaa Pro Pro Gln Phe Ile Gly Asn Ile Xaa Ile Gly Lys Pro Thr
65                  70                  75                  80
Thr Phe Phe Trp Pro Ala Leu Xaa Glu Leu Arg Lys Ile Tyr
                85                  90
```

<210> 22952
<211> 133

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(44)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22952
Ala Asp Thr Asn Pro Asn Asn Ser Arg Arg Xaa Thr Lys Gln Cys Gln
1 5 10 15
Ile Asn Gly Lys Trp Val Ser Trp Thr His Thr Ala Val Ala Tyr Thr
20 25 30
Ala Phe Leu Ser Ala Leu Val Val Gly Met Ser Xaa His Phe His Lys
35 40 45
Ile Val Gln Asn Glu His Tyr Gly Tyr Pro Asp Glu Trp Phe Pro Ser
50 55 60
Val Ser Ala Thr Ile Gly Asp Arg Tyr Pro Glu Arg Ser Phe Phe Gln
65 70 75 80
Val Phe Ile Ala Ile Thr Ser Gly Pro Arg Phe Ala Leu Val Phe Leu
85 90 95
Trp Tyr Leu Leu Thr Ala Arg Pro Gln Leu Asp Ser Ser Gln Asp Arg
100 105 110
Cys Trp Cys Trp Ala Val Pro Asp Phe Tyr Val Trp Trp Leu Asp Ile
115 120 125
Cys His Val Asp Arg
130

<210> 22953
<211> 204
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22953
Trp Glu Cys Xaa Tyr Ile Ser Thr Arg Ser Cys Arg Thr Asn Thr Met
1 5 10 15
Asp Thr Arg Met Asn Gly Ser Leu Leu Cys Gln Leu Gln Leu Val Ile
20 25 30
Gly Ile Arg Asn Gly His Ser Phe Lys Ser Ser Ser Pro Leu Pro Gln
35 40 45
Val Leu Asp Ser Leu Ser Phe Ser Phe Gly Ile Phe Leu Leu His Gly
50 55 60
Pro Asn Ser Thr Leu Pro Lys Ile Val Ala Gly Val Gly Leu Phe Arg
65 70 75 80
Thr Phe Met Cys Gly Gly Trp Thr Tyr Val Thr Ser Thr Asp Asp His
85 90 95
Asp Trp His Asp Ile Phe Met Ile Ser Tyr Leu Val Ala Thr Leu Pro
100 105 110
Trp Thr Leu Gly Cys Leu Ala Leu Ser Pro Asn Asn Arg Arg Ala Val
115 120 125
Lys Tyr Arg Lys Ile Met Ala Gly Leu Phe Phe Gly Thr Leu Val Pro

```
    130                 135                 140
Leu Ile Tyr Tyr Phe Ile Gln His Lys Val His Lys Val Ala Gly Gly
145                 150                 155                 160
Glu Phe Thr Leu Phe Leu Tyr Leu Ala Tyr Arg Ser Leu Thr Thr Leu
                165                 170                 175
Arg Ser Leu Tyr Glu Ile Cys Leu Leu Arg Val Val Ser Tyr Leu Val
            180                 185                 190
Arg Arg Gly Ile Arg Cys Gly His Gly Ile Gly Leu
        195                 200
```

<210> 22954
<211> 165
<212> PRT
<213> A.fumigatus

```
<400> 22954
Arg Lys Glu Lys Gly Pro Tyr Gln Val Val Gly Ala Val Asp Leu Gly
1               5                   10                  15
Val Gly Ile His Asp Gly Gly Ala Val Ile Gly Ala His Leu Gly Cys
            20                  25                  30
Ala Asp Glu Val Val Ala Ala Gly His Phe Gly Glu Asp Val Gly Arg
        35                  40                  45
Arg Ala Gly Pro Leu Asp Gly Val Arg Gly Leu Leu Glu Val Val Glu
    50                  55                  60
Glu Leu Leu Gln Glu Arg Ser Lys Gly Leu Leu Val Leu Gly Gly Leu
65                  70                  75                  80
Gln Gln Gly Val Gly Phe Asp Gly Ser Gly Ala Gly Gly Val Asp Ala
                85                  90                  95
Gln His Ala Gly Gly Cys Gly Ala Val Gly Glu Val Gln Phe His Gly
            100                 105                 110
Asp Asp Ala Val Ala Ala Gly Ala Ala Gly Gly Leu Glu Glu Ala Gly
        115                 120                 125
Asp Ala Val Gly Gly Asp Val Arg Gly Pro Glu Leu Lys Ala Met Ala
    130                 135                 140
Ala Leu Gly Glu Asp Ala Gly Thr Ala Gly Val Gln Ala Leu Arg Glu
145                 150                 155                 160
Gly Ile Gly Gly Gly
                165
```

<210> 22955
<211> 179
<212> PRT
<213> A.fumigatus

```
<400> 22955
Pro Ala Thr Asn Pro Phe Ala Gln Arg Leu Tyr Ala Ser Gly Ser Gly
1               5                   10                  15
Ile Leu Thr Gln Gly Gly His Arg Leu Gln Phe Trp Thr Ser Asn Val
            20                  25                  30
Ala Ser Asp Gly Val Thr Arg Phe Phe Gln Ala Ser Cys Ser Pro Gly
        35                  40                  45
Gly Asp Gly Ile Ile Thr Met Lys Leu Tyr Leu Thr His Gly Ala Thr
    50                  55                  60
Ser Ser Gly Val Leu Gly Ile Asn Ala Ala Gly Ser Thr Thr Ile Glu
65                  70                  75                  80
Ser Asp Pro Leu Leu Gln Thr Pro Glu Asp Lys Glu Ala Leu Thr Ser
```

```
                85                  90                  95
Phe Leu Gln Glu Leu Leu Asp Asp Leu Lys Lys Ala Ser Tyr Thr Val
            100                 105                 110
Gln Gly Ser Ser Ser Pro Ala Asp Ile Leu Ala Lys Val Thr Ser Gly
        115                 120                 125
Asp His Phe Val Gly Thr Ala Lys Met Gly Pro Asp Asp Gly Thr Ser
    130                 135                 140
Val Val Asp Thr Asn Thr Lys Val Tyr Gly Thr Asp Asn Leu Val Arg
145                 150                 155                 160
Ser Leu Leu Phe Ser Leu His Pro Leu His Leu Ala Lys Ser Ser Thr
                165                 170                 175
Ala Val Tyr
```

<210> 22956
<211> 92
<212> PRT
<213> A.fumigatus

<400> 22956

```
Tyr Ile Val Asp Ala Ser Ile His Pro Asp Leu Pro Thr Gly Asn Thr
1               5                   10                  15
Gln Ala Ile Val Met Ile Ala Ala Glu Ala Ala Val Ala Arg Ile Leu
            20                  25                  30
Ala Gln Gly Ser Gly Pro Ser Ser Ser Ser Ser Ile Ala Val Ser Ala
        35                  40                  45
Pro Ser Gln Asn Thr Ala Ile Ala Ala Val Ser Ser Thr Pro Ser Ala
    50                  55                  60
Thr Ala Val Pro Val Pro Val Pro Ile Pro Thr Gly Gly Gln Glu Thr
65                  70                  75                  80
Pro Gly Gly Asp Ser Arg Cys Ser Ala Tyr Arg Asn
                85                  90
```

<210> 22957
<211> 62
<212> PRT
<213> A.fumigatus

<400> 22957

```
Arg Tyr Arg Pro Leu Ser Ser Phe Phe Ile Lys Ser Thr Ser Thr Ala
1               5                   10                  15
Thr Arg Leu Asp Asp Ser Leu Ile Tyr Pro Phe Leu Ser Ile Leu Leu
            20                  25                  30
Lys Tyr Leu Tyr Arg Ala Ser Ser Phe Ser Tyr Asn Ile Val Asn Lys
        35                  40                  45
Gly Leu Tyr Ser Ser Asn Phe Leu Leu Ser Ser Tyr Ile Leu
    50                  55                  60
```

<210> 22958
<211> 163
<212> PRT
<213> A.fumigatus

<400> 22958

```
Thr Gln Pro Ile Ala Ala Val Leu Thr Arg Ala Lys Ile Arg Val Glu
1               5                   10                  15
```

```
His Arg Leu Asp Asn Phe Lys Ile Leu Ser Gly Glu Gly Glu Gly Asp
            20                  25                  30
Ile Arg Leu Ala Cys Ala Pro Phe Val Lys Ser Arg Leu Leu Leu Pro
        35                  40                  45
Phe Pro Tyr His Ile Ser Val Met Ser His Pro Gln Tyr Thr Tyr Gly
    50                  55                  60
Gly Pro Pro Gln Pro Pro Tyr Asn Ser Ala Gly Tyr Gly Gln Pro Gly
65                  70                  75                  80
Ala His Gln Gln Gln Pro Ala Pro Phe Tyr Pro Pro Gln Gln Pro Gly
                85                  90                  95
Gly Tyr Pro Pro Gln Gly Ala Pro Pro Gln Gln Phe Pro Pro Ser Gly
            100                 105                 110
Gln Tyr Gln Gln Pro Tyr Gly Ala Pro Pro Pro Gln Gln Gln Trp Pro
        115                 120                 125
Gly Gln Pro Pro Gln His Ile Pro Gln Val Gly Asn Pro Pro Pro Gln
    130                 135                 140
His Leu Ser Ala Ser Arg Glu Leu Thr Pro Lys Ile Asn Thr Leu His
145                 150                 155                 160
Arg Gly Gln
```

<210> 22959
<211> 68
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (68)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22959

```
Ser Tyr Ser Ala Glu Ala Val Val Arg Arg Arg Cys Arg Asp Thr Gln
1               5                   10                  15
Glu Arg Trp Glu Asn Phe Phe Ile Gly Val Pro Asp Trp Val Tyr Glu
            20                  25                  30
Glu Glu Val Ile Ser Gly Thr Ala Val Thr Trp Trp Ser Asn Asp Ala
        35                  40                  45
Lys Tyr Ile Ala Phe Phe Arg Thr Asn Glu Thr Ser Val Pro Glu Phe
    50                  55                  60
Pro Val Gln Xaa
65
```

<210> 22960
<211> 248
<212> PRT
<213> A.fumigatus

<400> 22960

```
Tyr Ile Ser Arg Pro Phe Gly Lys Lys Leu Leu Pro Gly Leu Glu Asn
1               5                   10                  15
Tyr Pro Asp Val Arg Glu Ile Lys Tyr Pro Lys Pro Gly Ala Pro Asn
            20                  25                  30
Pro Val Val Asp Leu Gln Phe Tyr Asp Val Glu Lys Asn Glu Val Phe
        35                  40                  45
Ser Val Gln Val Ala Asp Asp Phe Ala Asp Asp Asp Arg Ile Ile Ile
```

```
    50                  55                  60
Glu Val Leu Trp Ala Ser Glu Gly Lys Ile Leu Val Arg Ser Thr Asn
65                  70                  75                  80
Arg Glu Ser Asp Ile Leu Lys Val Tyr Leu Ile Asp Thr Gln Ser Arg
                85                  90                  95
Thr Gly Lys Leu Val Arg Ser Glu Asp Val Ala Gly Leu Asp Gly Gly
            100                 105                 110
Trp Val Glu Pro Ser Gln Ser Thr Arg Phe Val Pro Ala Asp Pro Asn
        115                 120                 125
Asn Gly Arg Pro His Asp Gly Tyr Ile Asp Thr Val Pro Tyr Asn Gly
    130                 135                 140
Tyr Asp His Leu Ala Tyr Phe Ser Pro Leu Asp Asn Pro Asn Ala Leu
145                 150                 155                 160
Met Leu Thr Ser Gly Glu Trp Glu Val Val Asp Ala Pro Ala Ala Val
                165                 170                 175
Asn Leu Gln Arg Gly Leu Val Tyr Phe Val Gly Thr Lys Glu Ala Pro
            180                 185                 190
Thr Gln Arg His Val Tyr Arg Val Gln Leu Asp Gly Ser Asn Leu Asn
        195                 200                 205
Pro Leu Thr Asp Thr Ser Lys Pro Gly Tyr Tyr Asp Val Ser Phe Ser
    210                 215                 220
His Gly Thr Gly Tyr Ala Leu Leu Thr Tyr Lys Gly Pro Ser Ile Pro
225                 230                 235                 240
Trp Gln Ala Ile Ile Asn Thr His
                245
```

<210> 22961
<211> 175
<212> PRT
<213> A.fumigatus

```
<400> 22961
Thr Leu Arg Gly Ser Ala Ser Arg Val Lys Thr Ala Val Glu Ser Ser
1               5                   10                  15
Met Thr Ala Leu Ser Lys Ser Pro Asn Lys His Asn Arg Leu Tyr Val
            20                  25                  30
Thr Ala Gln Pro Leu Gly Glu Glu Val Ser Leu Ala Ile Glu Ser Gly
        35                  40                  45
Lys Ile Asn Pro Arg Asp Asp Phe Lys Ala Arg Ala Arg Leu Leu Ala
    50                  55                  60
Asp Asp Tyr Gly Trp Asp Val Thr Asp Ala Arg Lys Ile Trp Cys Phe
65                  70                  75                  80
Gly Pro Asp Thr Thr Gly Ala Asn Leu Leu Val Asp Gln Thr Lys Ala
                85                  90                  95
Val Gln Tyr Leu Asn Glu Ile Lys Asp Ser Phe Val Ser Gly Phe Gln
            100                 105                 110
Trp Ala Thr Arg Glu Gly Pro Ile Ala Glu Glu Pro Met Arg Ser Ile
        115                 120                 125
Arg Phe Asn Ile Leu Asp Val Thr Leu His Ala Asp Ala Ile His Arg
    130                 135                 140
Gly Gly Gly Gln Ile Ile Pro Thr Ala Arg Arg Val Leu Tyr Ala Ala
145                 150                 155                 160
Thr Leu Leu Ala Glu Pro Ser Leu Leu Glu Pro Ile Phe Asn Val
                165                 170                 175
```

<210> 22962

<211> 96
<212> PRT
<213> A.fumigatus

<400> 22962
Ile Gln Val Pro Glu Gln Ala Met Gly Gly Ile Tyr Gly Val Leu Thr
1 5 10 15
Arg Arg Arg Gly His Val Tyr Ser Glu Glu Gln Arg Pro Gly Thr Pro
20 25 30
Leu Phe Asn Val Lys Ala Tyr Leu Pro Val Asn Glu Ser Phe Gly Phe
35 40 45
Asn Gly Asp Leu Arg Gln Ala Thr Gly Gly Gln Ala Phe Pro Gln Ser
50 55 60
Val Phe Asp Arg Trp Val Tyr Ala Pro Gly Val Gly Ser Ala Leu Gly
65 70 75 80
Ala Ala Gly Gly Gly Arg Gly Trp Gly Ala Gly Gly Glu Asp Cys Val
85 90 95

<210> 22963
<211> 288
<212> PRT
<213> A.fumigatus

<400> 22963
Val Ser Pro Gly Asn His Asp Ser Val Gly Asp Pro Leu Ala Leu His
1 5 10 15
Ala Ile Phe Thr Thr Arg Ser Pro Pro Pro Pro Pro Pro Arg Gly Ser
20 25 30
Gln Arg Arg Thr His Pro Gly Ser Ile Asp Pro Ala Val Glu Asp Gly
35 40 45
Leu Arg Glu Gly Leu Thr Thr Gly Gly Leu Ala Glu Ile Ala Val Glu
50 55 60
Thr Glu Gly Leu Val Asp Arg Gln Val Ser Leu Asp Val Glu Gln Arg
65 70 75 80
Ser Thr Arg Thr Leu Leu Leu Ala Val Asp Val Thr Thr Thr Ala Gly
85 90 95
Lys Asp Thr Val Asp Thr Thr His Gly Leu Leu Gly Asn Leu Asp Leu
100 105 110
Asp Val Glu Asp Gly Leu Gln Glu Thr Gly Leu Gly Glu Gln Gly Ser
115 120 125
Gly Val Gln Asp Thr Thr Ser Ser Gly Asp Asp Leu Thr Thr Thr Thr
130 135 140
Val Asp Gly Ile Ser Val Gln Ser His Ile Lys Asp Val Glu Ala Asp
145 150 155 160
Arg Ala His Arg Leu Leu Ser Asn Gly Thr Leu Thr Gly Gly Pro Leu
165 170 175
Glu Thr Arg Asp Glu Arg Val Leu Asp Phe Val Glu Val Leu Asp Gly
180 185 190
Leu Gly Leu Val Asn Gln Gln Val Gly Thr Gly Gly Val Gly Thr Glu
195 200 205
Ala Pro Asn Leu Thr Gly Ile Gly Asn Ile Pro Ala Val Val Ile Ser
210 215 220
Glu Glu Thr Gly Thr Gly Leu Glu Val Val Thr Gly Val Asp Leu Ala
225 230 235 240
Gly Leu Asp Gly Glu Gly Asp Leu Leu Ala Glu Gly Leu Ser Ser Asp
245 250 255

```
Val Glu Thr Val Val Leu Val Gly Arg Leu Gly Gln Gly Gly His Ala
            260                 265                 270
Gly Leu His Arg Gly Leu His Thr Arg Cys Arg Ser Ala Gln Ser Leu
        275                 280                 285

<210> 22964
<211> 169
<212> PRT
<213> A.fumigatus

<400> 22964
Asn Ser Asn Ala Ser Gln Ser Asp Lys Phe Tyr Ile Arg Ala Pro Val
1               5                   10                  15
Glu Tyr Pro Val Tyr Leu Gly Ala Gln Tyr Asp Ala Ser Thr Thr Asn
            20                  25                  30
Leu Thr Tyr Arg Ile Asp Ser His Ser Thr Val Ser Ser Ala Ala Gly
        35                  40                  45
Pro Val Ala Leu Thr Val Ser Phe Leu Ser Pro Ile Thr Pro Thr Ser
    50                  55                  60
Thr Leu Arg Gln Ser Ile Pro Ala Ser Tyr Ile Thr Val Tyr Val His
65                  70                  75                  80
Gly Asp Val Pro Val Asn Val Tyr Met Asp Leu Asn Gly Arg Trp Val
                85                  90                  95
Ser Gly Asp Ala Gly Ser Gln Ile Val Trp Gln His Asp Thr Phe Gly
            100                 105                 110
Ser Lys Gly Lys Lys Pro Thr Leu Gln Lys Trp Gln Phe Arg Arg Gln
        115                 120                 125
Asn Glu Leu Leu Leu Ser Glu Ile Arg Asp Arg Ala Glu Trp Gly Thr
    130                 135                 140
Leu His Phe Thr Gly Pro Ala Val Ser Asn Leu Phe Ile Pro Leu Val
145                 150                 155                 160
Ile Asp Arg Ser Ile Asn Trp Leu Tyr
                165

<210> 22965
<211> 91
<212> PRT
<213> A.fumigatus

<400> 22965
His Pro Met Leu Arg Glu Ile His Gln Tyr Asp Glu Pro His Ile His
1               5                   10                  15
Ile Leu Asp Ser Arg Val Asp Trp Asp Ser Tyr Ala Pro His Leu Glu
            20                  25                  30
Tyr Thr His Glu Tyr Ala Pro Ser His Lys Arg Met Gln Arg Phe Asp
        35                  40                  45
Ser Ala Pro Gln Ser Thr Leu Ser Gly Gln Ser Gln Ser Gly Asn Gly
    50                  55                  60
Leu Ser Gly Ser Gln Ile Gly Gly Ile Val Arg Gly Leu Leu Arg Arg
65                  70                  75                  80
Pro Val Leu Ser Arg Leu Ile Leu Leu Val Pro
                85                  90

<210> 22966
<211> 112
<212> PRT
```

<213> A.fumigatus

<400> 22966
Ala Gly Leu Ala Pro Gly Gly Glu Glu Ala Pro Gly Arg Cys Pro Gln
1 5 10 15
Ser Ala Ser Arg Ile Gly Arg Ser Arg Thr Val Ile Ala Pro Ile Glu
20 25 30
Trp Thr Gly Gly Leu Ser Arg Ile Ala Ala Cys Ala Cys Val Arg Gly
35 40 45
Arg Thr Arg Gly Cys Thr Arg Asp Gly Glu Arg Ser Cys Pro Ser Arg
50 55 60
Arg Ala Ser Arg Gly Cys Gly Cys Ala Val Arg His Ile Gly Val Phe
65 70 75 80
His Ala Ala Leu Asp Val Ile Arg Pro Arg Thr Gly Pro Gly Val Leu
85 90 95
Glu Met Phe Leu Ser Ala Asp Asn Gly Gly Leu Leu Phe Val Cys Val
100 105 110

<210> 22967
<211> 107
<212> PRT
<213> A.fumigatus

<400> 22967
Gln Ser Ile Thr Glu Asn Lys Ala Lys Asp Val Gln Phe Ser Gly Ala
1 5 10 15
Ser Thr Pro Leu Gln Thr Leu Asn Thr Asn Gln Ala Ser Arg Pro Asp
20 25 30
Ser Lys Ser Lys Ser Glu Ser Ala Asn Pro Pro Pro His Ser Ser Thr
35 40 45
Thr Leu Asp Glu Met Thr Ser Thr Pro Lys Arg Leu Tyr Arg Glu His
50 55 60
Leu Glu Thr Leu Gln Thr Ser Leu Ala Ser Pro Pro Thr Gly Gly Pro
65 70 75 80
Ala Gly Asn Tyr His Thr Phe Glu Phe Leu Arg Val Thr Gln Asn Glu
85 90 95
Lys Gly Pro Thr Leu Ala Trp Glu Glu His Gln
100 105

<210> 22968
<211> 107
<212> PRT
<213> A.fumigatus

<400> 22968
Ser Ala Leu Gln Thr Tyr Gly Tyr Cys Ala Ser Ile Ile Ser Ser Thr
1 5 10 15
Ile Gly Gln Pro Gly Trp Tyr Ser Tyr Phe Lys Leu Pro Ala Glu Gly
20 25 30
Glu Pro Gly Tyr Ala Ser Ile Thr Thr Pro Ala Ile Ser Thr Ala Asn
35 40 45
Gly Val Phe Ser Ala Gly Gly Ala Val Gly Thr Leu Phe Ile Met Trp
50 55 60
Ser Cys Asp Tyr Phe Gly Arg Lys Val Asn Ile Gln Phe Gly Ala Phe
65 70 75 80
Phe Ser Leu Phe Gly Gly Ala Leu Gln Ala Gly Ala Asn Ser Leu Glu

```
                85                  90                  95
Tyr Val Leu Ile Arg Ile Phe Leu Val Lys Ala
            100                 105
```

<210> 22969
<211> 69
<212> PRT
<213> A.fumigatus

<400> 22969

```
Asp Thr His Ile Glu Lys Met Thr Ile Asp Asp Tyr Leu Ser Val Leu
1               5                   10                  15
Arg Pro Lys Tyr Phe Gly Thr Trp Asn Leu His Arg His Leu Pro Ala
            20                  25                  30
Asp Leu Asp Phe Phe Val Met Leu Ser Ser Ile Ser Gly Ile Ile Gly
        35                  40                  45
Asn Ala Thr Gln Ala Ala Tyr Ala Ala Gly Ser Thr Leu Pro Arg His
    50                  55                  60
Ile Arg His Val Ser
65
```

<210> 22970
<211> 121
<212> PRT
<213> A.fumigatus

<400> 22970

```
Val Met Thr Pro Lys Pro Gln Ala Ala Leu Leu Arg Ala Asp Ala Ser
1               5                   10                  15
Tyr Ile Leu Val Gly Gly Leu Gly Gly Leu Gly Arg Ala Thr Ala Leu
            20                  25                  30
Trp Met Ala Asp Asn Gly Ala Arg Thr Leu Ile Phe Val Asn Arg Ser
        35                  40                  45
Gly Leu Ser Ser Gln Ala Ala Gln Glu Thr Ala Arg Asp Leu Lys Gln
    50                  55                  60
Lys Gly Val Arg Val Ile Ile His Ala Cys Asp Ile Ser Asp Ser Lys
65                  70                  75                  80
Lys Val Lys Lys Met Val Ile Glu Leu Glu Arg Asn Ala Pro Pro Ile
                85                  90                  95
Arg Gly Val Ile Gln Ala Ala Met Val Leu Arg Val Arg Ser Phe Asn
            100                 105                 110
Arg Arg Arg Leu His Pro Cys Gly Ser
        115                 120
```

<210> 22971
<211> 224
<212> PRT
<213> A.fumigatus

<400> 22971

```
Glu Asp Ile Ala Asp Ile Ile Lys Thr Ser Tyr Pro Asn Lys Ser Gly
1               5                   10                  15
Ile Ile Tyr Cys Leu Ser Arg Lys Thr Cys Glu Thr Val Ala Glu Ala
            20                  25                  30
Leu Thr Ser Gln His Asn Ile Arg Ala Glu Tyr Tyr His Ala Gly Met
        35                  40                  45
```

```
Asp Ser Ser Lys Arg Ala Glu Val Gln Glu Trp Trp Gln Ser Gly Arg
    50                  55                  60
Val His Val Ile Val Ala Thr Ile Ala Phe Gly Met Gly Ile Asp Lys
65                  70                  75                  80
Pro Asp Val Arg Phe Val Ile His His Ser Ile Pro Lys Ser Leu Glu
                85                  90                  95
Gly Tyr Tyr Gln Glu Thr Gly Arg Ala Gly Arg Asp Gly Lys Arg Ser
            100                 105                 110
Gly Cys Tyr Leu Tyr Tyr Ser Tyr Arg Asp Ala Thr Ser Ile Met Ser
        115                 120                 125
Met Ile Asp Lys Gly Glu Gly Gly Lys Gln Gln Lys Asn Arg Gln Arg
    130                 135                 140
Gln Met Leu Arg Asn Val Met Gln Tyr Cys Leu Asn Leu Ala Asp Cys
145                 150                 155                 160
Arg Arg Val Gln Ile Leu Ala Tyr Phe Asn Glu Tyr Phe Arg Pro Ile
                165                 170                 175
Asp Cys Asn Lys Ser Cys Asp Asn Cys Arg Ser Asp Gly Ile Phe Glu
            180                 185                 190
His Arg Asp Phe Ser Gln Gln Ala Ala Ser Val Leu Lys Ile Val Arg
        195                 200                 205
Tyr Cys Leu His His Gly Ala Gly Trp Ile Pro Gln Arg Val Tyr Glu
    210                 215                 220

<210> 22972
<211> 177
<212> PRT
<213> A.fumigatus

<400> 22972
Leu Val Val Lys Arg Gln Cys Pro Asn Val Leu Leu Gln Met Asn Leu
1               5                   10                  15
Asn Leu Leu Ser Thr Thr Thr Leu Gln Arg Ile Arg His Leu Lys Ser
            20                  25                  30
Phe Ile Lys Arg Cys His Gly Cys Phe Phe Thr Thr Lys Asp Met Thr
        35                  40                  45
Lys Gln Phe Cys Pro Arg Cys Gly Lys Asp Thr Leu Thr Arg Val Ser
    50                  55                  60
Cys Thr Thr Asp Ala Asn Gly Gln Phe Lys Met His Leu Lys Lys Asn
65                  70                  75                  80
Met Gln Trp Asn Asn Arg Gly Asn Arg Tyr Ser Ile Pro Lys Pro Thr
                85                  90                  95
His Gly Ser Ala Ser Gly Lys Trp Lys Gly Gly Gly Gly Lys Asp Gly
            100                 105                 110
Trp Gly Ile Glu Leu Ile Leu Ala Glu Asp Gln Lys Glu Tyr Ile Arg
        115                 120                 125
Ala Ser Val Glu Glu Ser Arg Arg Leu Arg Lys Glu Arg Asp Leu Met
    130                 135                 140
Asp Glu Asp Tyr Leu Pro Gly Ile Leu Thr Gly Glu Arg Thr Lys His
145                 150                 155                 160
Gly Gly Arg Pro Lys Val Gly Ala Gly Arg Asn Val Asn Ala Arg Arg
                165                 170                 175
Arg

<210> 22973
<211> 159
```

<212> PRT
<213> A.fumigatus

<400> 22973
Thr Asn Pro Ala Pro Asp Glu Asn Thr Leu Gln Thr Leu Ile Glu Thr
1 5 10 15
Asn Asp Glu Leu Ser Val Ala Leu Ser Lys Tyr Gln His Ala Phe Leu
20 25 30
Ser Ala Arg Lys Ala Thr Gly Asn Ser Gly Ser Gln Ser Pro Thr Pro
35 40 45
Ser Asn Gly Ala Ala Asp Thr Gly Thr Asn Arg Pro Leu Pro Val Ala
50 55 60
Pro Val Pro Gln Arg Gln Gly Gln Ser Ala Ser Pro Ser Val Phe Ser
65 70 75 80
Pro Pro Ser Pro Pro Pro Arg Gln Gln Gln Gln Gln Gln Gln Gln Ser
85 90 95
Thr Ala Thr Val Ala Pro Leu Ser Ala Thr Ser Ser Ala Ala Ala Pro
100 105 110
Val Gly Asn Asn Ala Ala Arg Tyr Glu Tyr Arg Ser Glu Asp Phe Gln
115 120 125
Val Pro Asn Pro Phe Ala Asp Asp Tyr Ser Thr Thr Thr Thr Glu Asn
130 135 140
Gln Gln Gln Ala Gly Ser Tyr Gln Arg Pro Thr Gln His Thr Leu
145 150 155

<210> 22974
<211> 81
<212> PRT
<213> A.fumigatus

<400> 22974
Cys Ile Cys Arg Val Ser His Asp Arg Ala Thr Val Ala Pro Cys Thr
1 5 10 15
Cys Ser Ala Pro Thr Phe Ala Pro Val Glu Gly Ser Leu Phe Asn Asn
20 25 30
Ser His His Asn Gly Asp Ser Val Pro Met Lys Tyr Asp Pro Pro Pro
35 40 45
Ser Tyr Ile Leu Leu Leu Gln Ile Ser Ala Ser Ile Pro Ala Val Leu
50 55 60
Gln Pro Ser Leu Ile Lys Leu Ile Phe Thr Tyr Leu Pro Val Asn Ser
65 70 75 80
Gly

<210> 22975
<211> 61
<212> PRT
<213> A.fumigatus

<400> 22975
Tyr Met Gly Met Arg Gly Met Asn Trp Gly Ile Arg Thr Phe Ile Ala
1 5 10 15
Ala Trp Thr Pro Gln Gly Arg Lys Ala Asn Gln Val Arg Ala Val Lys
20 25 30
Leu Tyr Leu Tyr Arg Leu Arg Arg Thr Ala Glu Tyr Leu Leu Pro Ile
35 40 45

Asp Ile Gly Tyr Trp Cys Cys Tyr Val Leu Cys Ser Ile
50 55 60

<210> 22976
<211> 66
<212> PRT
<213> A.fumigatus

<400> 22976
Lys Phe Val Ser Pro Ser Ser Cys Leu Ala Cys Pro Cys Thr Thr Arg
1 5 10 15
Val Leu Tyr Pro Cys Glu Gly Ile Trp Thr Arg Arg Val Ile Ser Thr
20 25 30
Asp Arg Tyr Gln Ala Asn His Glu Thr Thr Ile Lys Leu Lys Arg Lys
35 40 45
Ala Lys Gly Arg Ala Tyr Leu Leu Ile Asn Asn Lys Lys Leu Lys Arg
50 55 60
Gln Pro
65

<210> 22977
<211> 78
<212> PRT
<213> A.fumigatus

<400> 22977
Thr Pro Met Thr Thr Pro Asp Ala Phe Arg Asp Ala Glu Tyr Ile Ala
1 5 10 15
Asp Val Ser Gly Ile Ser Tyr Gly Asn Val Ala Asn Leu Thr Glu Gln
20 25 30
Asp Ala Asn Val Val Pro Arg Glu Asn Glu Arg Met Arg Lys Leu Gln
35 40 45
Leu Ala Ala Lys Val Ala Phe Ile Asp Arg Leu Leu Arg Asp Leu Asp
50 55 60
Ile Leu Ile Tyr Cys Glu Leu Ser Ala Leu Tyr Tyr Met Glu
65 70 75

<210> 22978
<211> 289
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (266),(287)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22978
Tyr Val Ser Pro Ser Pro Leu Thr Leu Ser Leu Gln Val Ile Asp Phe
1 5 10 15
Gly Pro Phe Leu Lys Gly Thr Pro Ser Asp Lys His Ala Val Ala Val
20 25 30
Ser Ile Thr Asn Ala Phe Lys Thr Ser Gly Phe Leu Tyr Leu Lys Asn
35 40 45
His Gly Ile Pro Phe Ser Thr Val Ser Gln Val Phe Glu Thr Ser Ala
50 55 60

```
Arg Phe Phe Ala Arg Pro Gln Asp Gln Lys Asp Ser Leu Cys Trp Thr
65                  70                  75                  80
Ser Pro Gln Ser Asn Arg Gly Tyr Val Lys Thr Gly Arg Glu Lys Leu
                85                  90                  95
Ser Leu Pro Glu Asp Asn Val Asp Lys Asp Ala Ala Arg Leu Ala Thr
            100                 105                 110
Pro Asp Leu Lys Glu Thr Met Asp Ile Gly Arg Asp Asp Val Glu Gly
        115                 120                 125
His Pro Asn Arg Trp Pro Asp His Ile Asp Asp Glu Gly Lys Glu Phe
    130                 135                 140
Lys Lys Val Ile Gln Leu Phe Phe Gly Met Cys Lys Ser Leu His Thr
145                 150                 155                 160
Glu Val Met Arg Ala Ile Ala Leu Gly Leu Asn Leu Pro Glu His Tyr
                165                 170                 175
Phe Asp Glu Phe Val Asp Ala Gly Asp Asn Asn Leu Arg Leu Leu His
            180                 185                 190
Tyr Pro Ser Val Pro Lys Asp Val Phe Lys Lys Ser Ser Gly Gln Val
        195                 200                 205
Arg Ala Ala Lys His Ser Asp Tyr Gly Ser Ile Thr Leu Leu Phe Gln
    210                 215                 220
Asp Arg Arg Gly Arg Leu Gln Val Arg Ser Leu Lys Gly His Phe Val
225                 230                 235                 240
Asp Ala Thr Pro Ile Ala Asn Thr Val Val Val Asn Ala Gly Asp Leu
                245                 250                 255
Leu Ala Arg Trp Val Asn Asp Ile Ile Xaa Ser Thr Arg His Arg Val
            260                 265                 270
Val Glu Pro Gln Val Leu His Val Phe Asp Gly Asp Asp Ser Xaa Tyr
        275                 280                 285
Thr
```

<210> 22979
<211> 196
<212> PRT
<213> A.fumigatus

```
<400> 22979
Arg Gly Ser Thr Gln Tyr Ile Asn Ile Asn Pro Thr Ile Leu Gln Pro
1               5                   10                  15
Lys Asn Gln Asp Arg Asp Met Ala Asn Val Pro His Thr Tyr Gly Asn
            20                  25                  30
Glu Val Tyr Ala Asn Gly Leu Gln Asn Ile Lys Pro Ala Ile Ser Phe
        35                  40                  45
Asn Pro Pro Asp Trp Glu Thr Gln Ala Arg Asp Leu Leu Ser Ala Asp
    50                  55                  60
Ser Tyr Asn Tyr Ile Trp Gly Ser Ala Gly Leu Arg Lys Thr Asp Thr
65                  70                  75                  80
Asp Asn Arg Asp Ala Phe Arg Lys Trp Ala Leu Ile Pro Ser Arg Leu
                85                  90                  95
Val Cys Ala Asp Phe Pro Ser Leu Lys Thr Thr Val Leu Gly His Glu
            100                 105                 110
Tyr Asp Tyr Pro Ile Ala Val Ala Pro Ile Gly Val Gln Arg Ile Phe
        115                 120                 125
His Arg Asp Gly Glu Val Ala Ala Ala Gln Ala Ala Ser Ala Gln Arg
    130                 135                 140
Val Pro Tyr Ile Leu Ser Thr Ala Ser Ser Thr Ser Ile Glu Asp Val
```

```
145                 150                 155                 160
Ala Ala Ala Ser Gly Asp Arg Ala Arg Trp Tyr Gln Leu Tyr Trp Ala
                165                 170                 175
Pro Arg Glu His Asp Glu Ile Thr Val Ser Leu Leu Gln Arg Ala Lys
            180                 185                 190
Cys Ala Gly Val
        195
```

<210> 22980
<211> 141
<212> PRT
<213> A.fumigatus

<400> 22980

```
Pro Val Asp Ile Leu Val Ser Ser Pro Phe Leu Ala Lys Tyr Ser Gln
1               5                   10                  15
Pro Arg Arg Val Ala Thr Arg Leu Leu Gln Glu Leu Ala Ala Leu Arg
            20                  25                  30
Arg Gln Leu Pro Met Val Arg Ile His Asp Pro Ala Arg Phe Gln Phe
        35                  40                  45
Asp Thr Pro Asp Gly Gly Lys Ser Leu Leu Asp Leu Phe Glu Gly Arg
    50                  55                  60
Lys Gln Leu Thr Leu Tyr His Phe Met Leu Gly Pro His Glu Thr Gln
65                  70                  75                  80
Gly Cys Val Gly Cys Ser Phe Cys Val Asn His Ile Pro Asp Leu Arg
                85                  90                  95
His Pro Trp Ser Arg Asp Thr Ser Phe Val Ala Trp Leu Pro Arg Pro
            100                 105                 110
Cys Leu Glu Ser Leu Pro Ile Gly Ile Arg Trp Ala Gly Ser Phe Arg
        115                 120                 125
Ser Ile Val Leu Gln Lys Arg Thr Asn Val Gly Arg Ser
    130                 135                 140
```

<210> 22981
<211> 69
<212> PRT
<213> A.fumigatus

<400> 22981

```
Gly Ile Met Val Tyr Lys Leu Val Phe Gly Ile Pro Arg Asp Leu Thr
1               5                   10                  15
Gly Ser Ser Ile Ser Lys Leu Ser Cys His Gly Arg Leu Glu Arg Pro
            20                  25                  30
Arg Ile Pro Ser Ser Leu Ala Pro Tyr Leu Phe Ser Asp Ala Val Glu
        35                  40                  45
Arg Tyr Ile Ile Pro Gly Thr Glu Tyr Leu Ile Gln Arg Leu Pro Ala
    50                  55                  60
Ser Lys Cys Val Ser
65
```

<210> 22982
<211> 70
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22982
Leu Arg Arg Ala Glu Asp Ser Gly Tyr Glu Asp Glu Tyr Xaa Val Glu
1 5 10 15
Asp Leu Glu Leu Thr Gly Ser Asp Tyr Val Ile Pro Thr Phe Ala Gly
20 25 30
Ser Phe Asp His Val Trp Glu Gln Thr Gly Ala Asn Gly Glu Glu Val
35 40 45
Ser Glu Thr Leu Gln Leu Asn Asn Met Lys Asn Ile Ser Gly Ala Ser
50 55 60
Arg Ile Arg Arg Leu Met
65 70

<210> 22983
<211> 268
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (226)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22983
Leu Asp Ser Met Phe Ser Leu Ser Thr Phe Glu His Gln Leu Val Met
1 5 10 15
Tyr Val Thr Ser Thr Asp Lys Glu Thr Phe Ala Ala Ala Phe Asp Ile
20 25 30
Ser Thr Val Pro Val Val Thr Gln Glu Gln Ala Leu Ala Glu Glu Arg
35 40 45
Thr Lys Lys Leu Thr Thr Ala Thr Pro Thr Leu Lys Ala Pro Ser Ala
50 55 60
Gly Pro Pro Lys Gly Lys Ala Asn Gly Val Ala Glu Ala Ala Thr Ala
65 70 75 80
Ala Ala Thr Gln Lys Tyr Ala Glu Gln Leu Met Gln Ile Pro Glu Leu
85 90 95
Lys Ala Tyr Gly Thr Leu Leu Lys Ser Ser Val Pro Val Glu Leu Thr
100 105 110
Glu Ser Glu Thr Glu Tyr Val Val Thr Ala Val Lys His Val Phe Lys
115 120 125
Glu His Ile Val Val Gln Tyr Asp Ile Lys Asn Thr Leu Pro Asp Thr
130 135 140
Val Leu Glu Asp Val Thr Val Val Ala Thr Pro Ser Glu Glu Glu Val
145 150 155 160
Leu Glu Glu Glu Phe Ile Val Pro Ala Pro Lys Leu Ala Ala Asn Glu
165 170 175
Pro Gly Ile Val Tyr Val Thr Phe Lys Lys Leu Ser Gly Glu His Ser
180 185 190
Phe Pro Val Thr Ser Phe Thr Asn Ile Leu Lys Phe Thr Ser Lys Glu
195 200 205
Ile Asp Pro Ser Ser Gly Glu Pro Lys Ile Ala Asp Met Arg Thr Ser
210 215 220
Ile Xaa Ser Arg Thr Trp Asn Leu Leu Ala Ala Thr Met Ser Phe Pro

```
225                 230                 235                 240
Arg Leu Pro Ala Ala Leu Thr Thr Ser Gly Ser Arg Pro Ala Arg Thr
                245                 250                 255
Gly Arg Lys Ser Ala Arg Leu Cys Asn Ser Ile Thr
            260                 265
```

<210> 22984
<211> 134
<212> PRT
<213> A.fumigatus

<400> 22984

```
Thr His Arg Ala Thr Ile Asp Thr Arg Val Arg Arg Ile Ile Arg Arg
1               5                   10                  15
Ile Lys Ile Gln Gln Gln Leu His Leu Lys Ser Ser Ser Phe Phe His
            20                  25                  30
Pro Ser Ile His Ser Ser Ala Ile Val Val Leu Ser Lys Arg Ser Cys
        35                  40                  45
Thr Ala Asn Ser Glu Thr Asn Trp Ser Ala Ala Ser Tyr Asn Thr Gln
    50                  55                  60
Ile Pro Ser His Thr Ile Ala Asn Thr Ser Asp Arg Ser Asn Thr Pro
65                  70                  75                  80
Ser Ala Arg Asn Pro Ser Ser Thr Ser Pro Pro Thr Lys Pro Asn Trp
                85                  90                  95
Tyr Val Pro Ser Pro Ala Lys Ser Ala Ile Ser Thr Ala Thr Ser Pro
            100                 105                 110
Ala Ser Ser Ser Pro Ser Ala Ala Ala Ser Ile Leu Leu Arg Thr Arg
        115                 120                 125
Arg Arg Pro Ala Pro Tyr
    130
```

<210> 22985
<211> 69
<212> PRT
<213> A.fumigatus

<400> 22985

```
Leu Ala Pro Pro Ala Asp Pro Ser Ser Pro Val Val Lys Thr Ser Pro
1               5                   10                  15
Asp Leu Val Met Ile Lys Arg Val Pro Lys Phe Ser Leu Phe Arg Ser
            20                  25                  30
Val Ile Gly Ser Gly Thr Thr Phe Ile Phe Pro Arg Ile Pro Ser Phe
        35                  40                  45
Leu Ile Lys Ala Arg Phe Ile Lys Leu Pro Val Ala Pro Lys Ser Ile
    50                  55                  60
Ile Thr Ser Ala Asp
65
```

<210> 22986
<211> 70
<212> PRT
<213> A.fumigatus

<400> 22986

```
Tyr Ile Thr Asn Thr Thr Gly Ser Lys Thr Lys Ser Ile Thr Thr Asn
1               5                   10                  15
```

```
Ser Arg Gly Tyr Trp Lys Lys Asp Tyr Gln Asp His Phe Ile Gly Asn
            20                  25                  30
Val Ile Thr Thr Gly Val Tyr Thr Asn Thr Ser Lys Asp Thr Arg Asp
        35                  40                  45
Ile Asn Lys Tyr Tyr Gly Leu Leu Val Thr Val Ile Ile Ala Val Ser
    50                  55                  60
Thr Ile Ile Ile Asn Ile
65                  70
```

<210> 22987
<211> 285
<212> PRT
<213> A.fumigatus

<400> 22987

```
Glu Pro Trp Lys Lys Phe Pro Gly Lys Leu Asn Arg Glu Asn Phe Ser
1               5                   10                  15
Pro Thr Gln Gly Lys Arg Lys His Gly Ser Arg Arg Ser Lys His Arg
            20                  25                  30
Ser Arg Trp Pro Ala Ile Glu Ala Val Glu Ala Gln Phe Asp Pro Lys
        35                  40                  45
Asp Leu Ala Glu Gln Phe Ala Ile Arg Arg Asp Pro Met Lys Leu His
    50                  55                  60
Tyr Leu Asp Asp Phe Ser Thr Ile Glu Pro Gly Val Asp Lys His Val
65                  70                  75                  80
Arg Ala Pro Val Thr Asn Thr Asp Tyr Asn Ala Glu Leu Lys Ser Glu
                85                  90                  95
Ser Asp Phe Ala Glu Asp Phe Gly Arg Phe Leu Ala Glu Leu Pro Arg
            100                 105                 110
Asp Pro Thr Ala Ala Asp Trp Val Arg Phe Ala Glu Thr Val Arg Met
        115                 120                 125
Thr His Gly Lys Glu Glu Asn Glu Leu Asn Pro His Ser Ala Leu Val
    130                 135                 140
Pro Asp Leu Leu Ala Pro Gly Glu Ser Ile Ser Gly Glu Arg Lys Glu
145                 150                 155                 160
Ile Asn Phe Phe Lys Glu Thr Asp Pro Arg Ala Arg Glu Ser Glu Glu
                165                 170                 175
Val Thr Asp Ala Leu Lys Gln Leu Leu Leu Thr Thr Gly Tyr Ser Gln
            180                 185                 190
Lys Glu Ile Gln Asp Leu Arg Thr Lys Thr Leu Val Ser His Ala Val
        195                 200                 205
Val Asn Gln Thr Arg Leu Gly Lys Val Arg Arg Gln Tyr Cys Leu Ser
    210                 215                 220
Ile Ala Gly Asn Gly Asn Gly Leu Leu Gly Ile Gly Glu Ala Lys Ser
225                 230                 235                 240
Glu Glu Pro Ala Asp Ala Gln Thr Gln Ser Arg Tyr Arg Ala Ile Arg
                245                 250                 255
Asn Met Gln Pro Ile Leu Arg Tyr Glu Asp Arg Thr Ile Phe Gly Asp
            260                 265                 270
Val Glu Gly Leu Pro His Gly Ala Gly Lys Asn Arg Ala
        275                 280                 285
```

<210> 22988
<211> 306
<212> PRT
<213> A.fumigatus

<400> 22988
Arg Leu Tyr Arg Lys Val Ala Pro Trp Phe Gly Ser Ser Arg Gln Ser
1 5 10 15
Val Arg Ala Val Asn Asp Leu Ser Met Asp Val Arg Lys Gly Glu Ile
20 25 30
Val Val Leu Leu Gly Ala Asn Gly Ser Gly Lys Ser Thr Thr Leu Asp
35 40 45
Ala Ile Ser Gly Leu Thr Thr Ile Thr Ser Gly Ser Ile Asp Val Asp
50 55 60
Tyr Gly Asp Ser Gly Gly Arg Phe Gly Leu Cys Pro Gln Lys Asn Val
65 70 75 80
Leu Trp Asp Lys Leu Thr Val Lys Glu His Ile Lys Ile Phe Asn Arg
85 90 95
Leu Lys Ser Thr Gly Glu Val Asp Ser Asn Glu Gln Leu Leu Lys Leu
100 105 110
Leu Asn Asp Cys Asp Leu Ala Gln Lys Val Ser Ser Leu Thr Lys Thr
115 120 125
Leu Ser Gly Gly Gln Lys Arg Lys Val Gln Leu Ala Met Met Leu Thr
130 135 140
Gly Gly Ser Ser Ile Cys Ala Val Asp Glu Val Ser Ser Gly Ile Asp
145 150 155 160
Pro Ile Ala Arg Ala Lys Ile Trp Asp Ile Leu Leu Ala Glu Arg Gly
165 170 175
Ser Arg Thr Ile Leu Leu Thr Thr His Phe Leu Asp Glu Ala Asp Leu
180 185 190
Leu Ala Asp His Ile Thr Ile Leu Ser Lys Gly Ser Leu Lys Ala Gln
195 200 205
Gly Ser Ser Val Glu Leu Lys Asp Arg Leu Gly Ser Gly Tyr Arg Ile
210 215 220
His Val Leu Asn Val Pro Gly Ser Glu Lys Val Thr Gly Leu Gln Phe
225 230 235 240
Asp Ser Ile Glu Lys Glu Val His Phe Asp Asp Thr Val Tyr Ser Ala
245 250 255
Lys Asp Ser Thr Glu Ala Ser Arg Leu Met Ser Val Leu Glu Glu Lys
260 265 270
Gly Val Thr Glu Tyr Arg Val Ser Gly Pro Thr Ile Glu Asp Val Phe
275 280 285
Leu Ser Val Ala Glu Glu Leu Asp Ser Asp Arg Leu Arg Glu Glu Pro
290 295 300
Tyr Ile
305

<210> 22989
<211> 231
<212> PRT
<213> A.fumigatus

<400> 22989
Ser Ser Ser Leu Tyr His Phe Gln Phe Asp Ser Cys Ser Asp Thr Arg
1 5 10 15
Ile Ser Met Pro Leu Phe Ser Ser Ser Ser Ser Ser Ser Ser Ser Ala
20 25 30
Asn Lys Leu Thr Gln Phe Pro Arg Ala Gln Ala Phe Glu Asn Ala Ser
35 40 45
Thr Ser Val Ala Ala Ser Gln Met Arg Asn Ala Leu Asn Ala Leu Ala

```
    50                  55                  60
Glu Thr Val Pro Asp Pro Glu Glu Lys Lys Arg Phe Glu Ala Glu Met
65                  70                  75                  80
Asp Asn Phe Phe Ala Leu Phe Arg Arg Phe Leu Asn Tyr Lys Ala Lys
                85                  90                  95
Gly Asn Val Val Asn Trp Asp Arg Ile Asn Pro Pro Ala Pro Asn Gln
            100                 105                 110
Val Val Asp Tyr Asn Asp Leu Gly Ala Glu Ala Ser Val Glu Phe Leu
        115                 120                 125
Asn Lys Leu Ala Val Val Lys Leu Asn Gly Gly Leu Gly Thr Ser Met
    130                 135                 140
Gly Cys Val Gly Pro Lys Ser Val Ile Glu Val Arg Glu Gly Met Ser
145                 150                 155                 160
Phe Leu Asp Leu Ser Val Arg Gln Ile Glu His Leu Asn Arg Thr Tyr
                165                 170                 175
Asn Val Asn Val Pro Phe Val Leu Met Asn Ser Phe Asn Thr Asp Gln
            180                 185                 190
Asp Thr Gln Ser Ile Ile Lys Lys Tyr Gln Gly His Asn Val Asp Ile
        195                 200                 205
Ile Thr Phe Asn Gln Ser Arg Tyr Pro Arg Ile Ile Lys Asp Ser Leu
    210                 215                 220
Leu Pro Ala Pro Asn Asn Val
225                 230
```

<210> 22990
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22990

```
Phe Met His Phe Phe Phe Tyr Ser Thr Thr Ile Ser Ser Leu Tyr Ile
1               5                   10                  15
Ile Ala Pro Phe Val Asn Phe Ala Thr Ile Ile Ile Pro Ile Asp Arg
            20                  25                  30
Ala Pro Phe Ile Ile Ser Asn Leu Ile Ala Ala Ala Ile Pro Val Ser
        35                  40                  45
Ala Cys Leu Ser Phe Leu Leu Leu Leu Leu Leu Leu Leu Leu Gln Ile
    50                  55                  60
Ser
65
```

<210> 22991
<211> 126
<212> PRT
<213> A.fumigatus

<400> 22991

```
Thr Arg Ser Thr Pro Thr Arg Thr Pro Ser Pro Ser Ser Arg Ser Thr
1               5                   10                  15
Lys Ala Thr Thr Ser Thr Ser Ser Pro Ser Thr Asn Pro Ala Thr Leu
            20                  25                  30
Val Ser Ser Arg Thr Leu Ser Ser Pro Leu Pro Ile Thr Phe Asp Ala
        35                  40                  45
Pro Leu His Asp Trp Tyr Pro Pro Gly Pro Gly Asp Val Phe Glu Leu
    50                  55                  60
Leu Tyr Asn Ser Gly Thr Leu Glu Lys Leu Leu Asp Leu Gly Val Asp
```

65 70 75 80
Tyr Ile Phe Pro Leu Gln Cys Arg Lys Thr Pro Ala Pro Val Val Glu
85 90 95
Ser Pro Asp Phe Cys Thr His His Gly Gly Thr Leu Val Ala Gln Leu
100 105 110
His Phe Trp Asn Leu Thr Glu Gln Gln Pro Met Pro Asn Phe
115 120 125

<210> 22992
<211> 208
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (206)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22992
Ser Pro Ser Pro Arg Tyr Ile Pro Ala His Leu Gln Glu Glu Val Leu
1 5 10 15
Gly Thr Ala Ala Arg Ser Pro Thr Pro Glu Ser Ala Ser Ser Ala Ala
20 25 30
Asp Tyr Pro Ser Ile Ala Cys Ala Gly Leu Thr Leu His Ser Asp Thr
35 40 45
Met Thr Asp Met Ser Gly Ser Asp Lys Lys Asp Gly Ser Val Pro Pro
50 55 60
Thr Gly Gly Asp Val Arg Ser Ser Ser Pro Gly Ile Lys Arg Ser Ala
65 70 75 80
Pro Asn Ala Asp Gln Asp Val Asp Met Asp Leu Gly Ser Thr Glu Lys
85 90 95
Arg Ser Val Ser Leu Thr His His Thr Asp Ala Met Asp Ile Thr Thr
100 105 110
Ala Glu Gly Asn Ser Asn Gly Ser Ser Asp Asn Ser Gly Ser Asp Asn
115 120 125
Val Tyr Pro Thr Pro Ser Ser Met Ser Thr Phe Thr Ala Ser Thr Ala
130 135 140
Thr Arg Arg Glu Ser Lys Ala Gln Ala Ser Ile Ser Ser His Asp Leu
145 150 155 160
Pro Pro Ile Asp Asp Gln Val Ala Gln Val Thr Cys Thr Met Ala Gln
165 170 175
Pro Leu Lys Glu Lys Gln Lys Gly Tyr Leu Val Ser Met Ser Trp Leu
180 185 190
Lys Arg Leu His Ala Pro Gly Leu Glu Gly His Ala Ile Xaa Ser His
195 200 205

<210> 22993
<211> 104
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (66)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 22993
Cys Asn Lys His Gly Leu Asn Thr Lys Met Asp Leu Leu Asn Leu Met
1 5 10 15
Gln Leu Gly Glu Phe Arg Pro Ser Val His Gly Leu Gly Asp Phe Glu
20 25 30
Pro Asn Ile Thr Phe Val Pro Ser Lys Pro Phe Leu Ser Asp Gly Ser
35 40 45
Thr Tyr His Ala Asp Thr Ile Phe Ala Ile Thr Pro Val Ser Ala Leu
50 55 60
Val Xaa Asn Ala Ser Arg Ser Phe His Asn Val Gln Ser Ser Ser Ser
65 70 75 80
Ile Val Ile Ile Tyr Leu Phe Asp Ser His Gly Thr Arg Ser Thr Thr
85 90 95
Lys Phe Glu Tyr Ile Gly Ser Ile
100

<210> 22994
<211> 63
<212> PRT
<213> A.fumigatus

<400> 22994
Cys Asn Ser Leu Asn Pro Met Arg Pro Pro Ser His Phe Glu Gln Glu
1 5 10 15
Met Gln Arg Ser Lys Ala Ser Phe Gln Ala Tyr Thr Trp Thr Ala Tyr
20 25 30
Ser Thr Ile Ser Pro Cys Pro Ser Phe Ser Phe Leu Met Ser Leu Leu
35 40 45
Val Arg Lys Ile Thr Val Asn Asp Ile Phe Glu Tyr Leu Leu Thr
50 55 60

<210> 22995
<211> 242
<212> PRT
<213> A.fumigatus

<400> 22995
Thr His Ser Ala Val Pro Ser Thr Pro Val Val Lys Thr Ser Val Met
1 5 10 15
Ile Arg Asn Cys Gln Glu Gly His Leu Arg Ala Glu Arg Asp Phe Leu
20 25 30
Val Ala Ser Ala Lys Ser Arg Trp Val Val Pro Leu Ile Ala Ser Phe
35 40 45
Gln Asp His Asn Tyr Leu Tyr Leu Ile Met Asp Tyr Met Val Gly Gly
50 55 60
Asp Phe Leu Gly Leu Leu Met Arg Arg Asn Ile Leu Pro Glu His Phe
65 70 75 80
Thr Arg Trp Tyr Ala Ala Glu Met Ile Leu Cys Ile Glu Glu Ala His
85 90 95
Lys Leu Arg Trp Ile His Arg Asp Val Lys Pro Asp Asn Phe Leu Ile
100 105 110
Ser Ala Ser Gly His Met Lys Ile Ser Asp Phe Gly Leu Ala Phe Asp
115 120 125
Gly His Trp Ala His Asp Gln Ala Tyr Tyr Asn His His Arg Tyr Ser
130 135 140
Leu Leu Glu Lys Leu Gly Ile Gln Ile Asp Gly Asp Gly Glu Asp Arg

```
145                 150                 155                 160
Glu Glu Arg Lys Ser Gln Gly Ala Ser Lys Asn His Asn Glu Leu Lys
                165                 170                 175
Pro Asp Arg Asn Pro Pro Ser Val Asn Val Leu Asp Trp Arg Asp Asn
            180                 185                 190
Asn Gln Arg Arg Gly Phe Ala Arg Ser Ile Val Gly Thr Ser Gln Tyr
        195                 200                 205
Met Ala Pro Glu Ile Ile Arg Gly Glu Ala Tyr Asp Gly Arg Cys Asp
    210                 215                 220
Trp Trp Ser Val Gly Ile Ile Ile Tyr Glu Val His Pro Ser Lys Ile
225                 230                 235                 240
Gly Leu
```

<210> 22996
<211> 65
<212> PRT
<213> A.fumigatus

<400> 22996

```
Arg Gln Trp Ser Met Arg Ser Lys Gln Leu Lys Ser Tyr Leu Arg Trp
1               5                   10                  15
Met Tyr Leu Val Tyr Tyr Asp Ala Tyr Thr Pro Pro Val Thr Ser Pro
            20                  25                  30
Val Val Arg Phe Ser Ser Asp Asp Phe Trp Gly His Ile Leu Ala Gly
        35                  40                  45
Ala Asn Asp Ala Thr Gly Lys Ser Ala Pro Leu Val Ile Val Thr Pro
    50                  55                  60
Val
65
```

<210> 22997
<211> 198
<212> PRT
<213> A.fumigatus

<400> 22997

```
Thr Glu Ile Leu Glu Ile Ser Leu Phe His His Pro Leu Asp His Ile
1               5                   10                  15
Ser Arg Leu Gln Met Arg Thr Leu Ile Leu Val Phe Leu Trp Leu Thr
            20                  25                  30
Ala Val Ser Ser Tyr Pro Arg Gly Ile Asp Trp Asp Tyr Ala Ile Ala
        35                  40                  45
Tyr His Gln Gln Val Leu Gln Gly Glu Asn Asp Arg Gly Phe Gly Leu
    50                  55                  60
Asn Glu Pro Phe Ile Pro Thr Pro Ser His Ile Leu Pro Glu Lys Lys
65                  70                  75                  80
Pro Phe Tyr Ile Asp Glu Thr Val His Tyr Tyr Glu Arg His Phe Asn
                85                  90                  95
Gly Ser Gly Glu Asn Gly Glu Tyr Arg Arg Ser Ser Cys Pro Ala Val
            100                 105                 110
Asn Ala Leu Ala Asn Arg Gly Tyr Ile Asn Arg Ser Gly Arg Asn Ile
        115                 120                 125
Thr Tyr Ala Glu Leu Ala His Ala Val Arg Lys Val Trp Asn Phe Gly
    130                 135                 140
Asp Asp Asn Val Ile Leu Pro Pro Lys Glu Ser Leu Val Leu His Ser
```

145 150 155 160
Thr Asn Ser Phe Pro Gln Ser Met Leu Val Leu Ala Pro Asn Val Arg
165 170 175
Asn Ala Trp Leu Gly Arg Lys Thr Leu Asn Leu Asp Tyr Ser Met Gln
180 185 190
Lys Tyr Val Leu Val Ser
195

<210> 22998
<211> 223
<212> PRT
<213> A.fumigatus

<400> 22998
Ser Gln Tyr Ser Asp Ala Thr Tyr Gly Pro Ser Val Pro His Ile Gln
1 5 10 15
Asn Pro Phe Thr Ala Thr Gly Thr Gly Lys Asn Tyr Gly Arg Asn Asp
20 25 30
Ser Gly Leu Asp Pro Glu Thr Glu Ala Gln Ile Ala Gln Trp Gln Ser
35 40 45
Ala Tyr Ala Asn Lys Glu Glu Ala Pro Gly Gly Lys Val Ala Gly Arg
50 55 60
Arg Asp Gly Ala Thr Gly Met Pro Gly Ala Thr Val Gly Thr Asn Thr
65 70 75 80
Pro Thr Ser Ala Thr Ala Thr Ser Thr Pro Thr Leu Ala Ser His Pro
85 90 95
Glu Gln Asn Ala Lys Thr Val Val Arg Ser Gly Gly Gly Gln Thr Trp
100 105 110
Thr Asp Pro Thr Leu Leu Glu Trp Asp Pro Ala His Phe Arg Leu Phe
115 120 125
Val Gly Asn Leu Ala Gly Glu Val Thr Asp Asp Ser Leu Leu Lys Ala
130 135 140
Phe Ser Arg Tyr Ser Ser Val Gln Lys Ala Arg Val Ile Arg Asp Lys
145 150 155 160
Arg Thr Gln Lys Ser Lys Gly Tyr Gly Phe Val Ser Phe Ser Asn Gly
165 170 175
Asp Asp Tyr Phe Ala Ala Ala Arg Glu Met Gln Gly Lys Tyr Ile Gly
180 185 190
Ser His Pro Ile Leu Leu Arg Arg Ala Thr Thr Glu Ile Arg Pro Thr
195 200 205
Thr Asn Pro Lys Ala Gly Lys Lys Asn Ala Gly Gly His Ser Gly
210 215 220

<210> 22999
<211> 91
<212> PRT
<213> A.fumigatus

<400> 22999
Lys Asn Arg Ser Asp Gln Phe Asp Leu Asp Cys Thr Val Ser Gly His
1 5 10 15
Ser Ile Cys Gln Val Gly Pro Ser Gly Thr Arg Ala Ala Arg Leu Ile
20 25 30
Ile Leu Thr Tyr Ser Asn Ser Ile Phe Leu Met Ser Phe Cys Thr Ser
35 40 45
Leu Glu Gly Gln Thr Val Met Ser Leu Gly Ala Tyr Ala Thr Ser Ala

```
    50                  55                  60
Phe Ser Lys His Ser Leu Ile Ser Thr Val Leu Val Val Gln Asn Val
65                  70                  75                  80
Val Asn Gly Lys Cys Tyr Asn Pro Ala Arg Leu
                85                  90
```

<210> 23000
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23000

```
His Pro Trp Cys Lys Thr Arg Ser Thr Ala Leu Val Asn Tyr Ser Leu
1               5                   10                  15
His Ser Thr Gln Phe Ile Ser Thr Tyr Gly Ser Ser Ile Thr Ala Gly
            20                  25                  30
Gln Pro Ser Ser Ser Gly Leu Gly Leu Arg Gly Leu Ser Val Xaa Tyr
        35                  40                  45
Gly Gln Arg Asn Gly His Arg Ile Val Asp Asp Val Trp Thr Asp Pro
    50                  55                  60
Ser Asn Glu Asn Ser Val Glu Ser Tyr Ser Leu Ser Ile Leu Asn Ala
65                  70                  75                  80
Trp
```

<210> 23001
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23001

```
Leu Asn Val Pro Glu Trp Glu Val Ala Ser Arg Ile Leu Leu Tyr Pro
1               5                   10                  15
Ala Tyr Asn Asp Thr Ser Pro Gly Thr Ser Thr Val Val Phe Ser Met
            20                  25                  30
Ile Ala Glu Cys His Ala Asp Gly Ile Val Gly Gly Ala Thr Leu Thr
        35                  40                  45
Ser Asp Asp Asn Asn Val Ala Asn Asp Gln Leu Cys Asp Val Ile Gly
    50                  55                  60
Gly Phe Ile Tyr Ser Ser Thr Pro Tyr Thr Lys Pro Tyr Leu Thr Ser
65                  70                  75                  80
Thr Gly
```

<210> 23002
<211> 144
<212> PRT
<213> A.fumigatus

<400> 23002

```
Pro Gly Gly Glu Phe Ser Lys Ala Leu Pro Glu Lys Arg Glu Phe Leu
```

```
1               5                   10                  15
Gln Arg Ala Asp Val Leu Ser Val His Tyr Val Leu Ser Glu Arg Ser
            20                  25                  30
Arg Gly Ile Leu Gly Ala Glu Asp Leu Ala Ala Leu Arg Pro Asp Ala
        35                  40                  45
Met Ile Val Asn Thr Ser Arg Gly Pro Leu Ile Asp Glu Arg Ala Leu
    50                  55                  60
Leu Glu Thr Leu Asn Ala Gly Arg Ile Arg Gly Ala Ala Leu Asp Val
65                  70                  75                  80
Phe Asp Pro Glu Pro Leu Pro Val Asp Ser Pro Trp Arg Thr Thr Ala
                85                  90                  95
Trp Gly Val Asp Gly Arg Ser Glu Val Leu Leu Thr Pro His Met Gly
            100                 105                 110
Tyr Gly Glu Glu Glu Leu Ile Asn Gly Trp Tyr Lys Glu Ala Ala Glu
        115                 120                 125
Asn Leu Glu Arg Trp Leu Asp Gly Lys Glu Leu His Val Arg Leu Asn
    130                 135                 140
```

<210> 23003
<211> 141
<212> PRT
<213> A.fumigatus

<400> 23003

```
Tyr Thr Lys Ile His Ser Arg Phe Lys Met Ser Thr Gln Lys Ala Val
1               5                   10                  15
Val Ile Thr Gly Pro Lys Gln Ala Asp Leu Val Thr His Pro Ile Pro
            20                  25                  30
Lys Leu Arg Asp Asp Tyr Ile Leu Ile Lys Thr Val Ser Val Ala Leu
        35                  40                  45
Asn Pro Thr Asp Trp Lys His Ile Asp Arg Leu Val Ala Pro Gly Val
    50                  55                  60
Leu Val Gly Cys Asp Tyr Ala Gly Ile Val Glu Glu Met Gly Asn Asp
65                  70                  75                  80
Val Gln Lys Pro Phe Lys Lys Gly Asp Arg Val Cys Gly Phe Ala His
                85                  90                  95
Gly Cys Asn Ala Val Gln Pro Glu Asp Arg Thr Phe Ala Glu Tyr Ile
            100                 105                 110
Val Ala Lys Gly Asp Leu Pro Ile His Ile Pro Asp Asn Leu Ser Phe
        115                 120                 125
Gln Glu Gly Pro Thr Leu Gly Phe Pro Tyr His His His
    130                 135                 140
```

<210> 23004
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23004

```
Val Ile Val Ser Gln Leu Gln Asn Gly Gln Leu Arg Gly Gly Gly Arg
1               5                   10                  15
Leu Glu Tyr Ser Pro Glu Tyr Val Ser Ile Ser Gly Trp Pro Asp Leu
            20                  25                  30
Ser Ser Gly Ile Ser His Pro Glu Val Ala Lys Ser Ser Cys Ser Asn
        35                  40                  45
Gln Glu Gln Thr Ser Pro Arg Leu Ala Arg Tyr Thr Thr Tyr Lys Thr
```

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09/417507
10/14/99

```
    50                  55                  60
Glu Arg Pro Tyr Gln Pro Ser Asn His
65                  70
```

<210> 23005
<211> 77
<212> PRT
<213> A.fumigatus

<400> 23005

```
Arg Asp Ile Leu His Thr Arg Gln Asn Val Leu Thr Asn His Gln Thr
1               5                   10                  15
Ile Lys Ser Leu Asp Phe His Phe Gln Tyr Ser Asp Asn Asp Ser Val
            20                  25                  30
Tyr Ser Leu Tyr Phe Ala Ser Asp Gly Arg Tyr Ser Thr Asn Ile Thr
        35                  40                  45
Gly Thr Lys His Trp His Leu Gln His Ser Leu Ala Ile Ser Asp Ala
    50                  55                  60
Pro Leu Val Phe Tyr His Arg Gly Gly Ser His Pro Arg
65                  70                  75
```

<210> 23006
<211> 362
<212> PRT
<213> A.fumigatus

<400> 23006

```
Arg Gln Gly Gln Tyr Gly Pro Gly Val Gly Thr Pro Arg Pro Asp Trp
1               5                   10                  15
Ala Leu Ser Ser Asp Asp Leu Asn Lys Ile Val Arg Ser Ser Ala Val
            20                  25                  30
Thr Gly Ser Gly Leu Gly Thr Ser Pro Asn Val Ala Gly Thr Pro Asp
        35                  40                  45
Glu Glu Val Gly Tyr Ile Ala Thr Asp Glu Tyr Thr His Arg Met Ala
    50                  55                  60
Thr Pro Ala Pro Glu Ser Arg Arg Ser Ser Arg Leu Val Gly Glu Ser
65                  70                  75                  80
Pro Leu Arg Asn Thr Asp Val Pro Ala Ser Glu Val Gly Val Glu Arg
                85                  90                  95
Glu Gly Arg Lys Ser Glu Asp Ala Gly Val Ile His Val Asp Asp Pro
            100                 105                 110
Tyr His Pro Leu His His Pro Asp Gly Phe Ala Pro Thr Pro Ala Pro
        115                 120                 125
Glu Glu Gln Ser His Glu Met Gly Ala Gly Leu Glu Asp Glu Asp Glu
    130                 135                 140
Pro Ile Leu Ala Ala Asp Glu Val Arg Pro Glu Ser Ala Tyr Gln His
145                 150                 155                 160
Pro Ala Val Ser Pro Thr Phe Asp Arg Arg Pro Ser Glu Tyr Asp Gly
                165                 170                 175
Arg Ser His Thr Pro Ser Val Asn His Ser Arg Ser Asn Ser Arg Ser
            180                 185                 190
Ala Pro His Gln Gly Gly Met Pro Thr Leu Val Arg Tyr Asn Ser Arg
        195                 200                 205
Asp Glu Arg Glu Glu Thr His Thr Pro Leu Asp Asp Val Glu Glu Tyr
    210                 215                 220
```

```
Glu Pro Leu Phe Pro Glu Asp Asp Lys Asp Lys Thr Ser Ile Ser Ala
225                 230                 235                 240
Ala Asp Arg Phe Lys Gln Arg Pro Glu Met Leu Lys His Arg Phe Pro
                245                 250                 255
Ser Glu Asp Ile Trp Glu Asp Ser Pro Asn Ser Leu Gln Leu His Ala
            260                 265                 270
Thr Val Ser Thr Pro Asp Ile Pro Lys Gln Glu Ala Phe Glu Thr Pro
        275                 280                 285
Glu Gln Glu Ser Phe Arg Arg Ser His Ala Pro His Leu Asp Pro Arg
    290                 295                 300
Gln Val Ala Glu His Ile Leu Glu Ser Glu Glu Ser Lys Glu Lys Thr
305                 310                 315                 320
Gln Pro Arg Pro Glu Ile Cys Lys Gln Arg Phe Pro Ser Arg Asp Ile
                325                 330                 335
Trp Glu Asp Ala Pro Glu Ser Gln Thr Leu Val Thr Thr Ile Glu Val
            340                 345                 350
Leu His Arg Arg Gly Arg Lys Asn Thr Arg
        355                 360
```

<210> 23007
<211> 171
<212> PRT
<213> A.fumigatus

<400> 23007

```
Phe Leu Met Asp Met Ala Ser His Ser Gly Pro Glu Phe Asp Gln Phe
1               5                   10                  15
Cys Thr Glu Asn Ser Ile Ile Pro Leu Tyr Met Pro Pro His Ser Ser
            20                  25                  30
His Leu Leu Gln Pro Leu Asp Val Ser Cys Phe Ser Pro Leu Lys Gln
        35                  40                  45
Ala Tyr Gly Gln His Val Gln Lys Ser Met Val Leu Gly Ile Asn His
    50                  55                  60
Ile Asp Lys Asp Glu Phe Leu Thr Ile Tyr Ser Ser Ile Cys Thr Ala
65                  70                  75                  80
Ala Leu Ser Glu Arg Asn Ile Gln Ser Gly Phe Arg Ala Thr Gly Leu
                85                  90                  95
Val Pro Tyr Asp Pro Glu Gln Val Leu Ser Arg Leu Asn Thr Gln Met
            100                 105                 110
Cys Arg Pro Thr Pro Pro Gly Thr Ser His Ser Ser Gln Ser Ser Trp
        115                 120                 125
Val Thr Ala Thr Pro His Asn Ile Arg Gln Val Glu Leu Gln Ala Glu
    130                 135                 140
Lys Val Lys Gly Tyr Met Gln Gln Cys Met Gln Gly Pro Ser Ser Pro
145                 150                 155                 160
Ser Ser Pro Arg Gly Trp Lys Gly Arg Ala Arg
                165                 170
```

<210> 23008
<211> 65
<212> PRT
<213> A.fumigatus

<400> 23008

```
Ile Gln Ser Leu Asp Leu Gln Gln Lys Leu Lys Leu Tyr His Gly Lys
1               5                   10                  15
```

```
Tyr Met Ser Val Ala Ile Thr Ser Leu Cys Phe Leu Leu Val Leu Ser
            20                  25                  30
Ala Leu Ala Cys Val Thr Leu Pro Asn Tyr Leu Phe Ser Thr Ala Trp
        35                  40                  45
Pro Arg Gln Gln Val Thr Arg Leu Leu Arg Arg Ile Asn Cys Gly Thr
    50                  55                  60
Glu
65
```

<210> 23009
<211> 255
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (228),(233),(234)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23009

```
Arg Phe Gln His Ser Ile Met Ile Gly Met Gly Gln Lys Asp Ser Tyr
1               5                   10                  15
Val Gly Asp Glu Ala Gln Ser Lys Arg Gly Ile Leu Thr Leu Arg Tyr
            20                  25                  30
Pro Ile Glu His Gly Val Val Thr Asn Trp Asp Asp Met Glu Lys Ile
        35                  40                  45
Trp His His Thr Phe Tyr Asn Glu Leu Arg Val Ala Pro Glu Glu His
    50                  55                  60
Pro Val Leu Leu Thr Glu Ala Pro Ile Asn Pro Lys Ser Asn Arg Glu
65                  70                  75                  80
Lys Met Thr Gln Ile Val Phe Glu Thr Phe Asn Ala Pro Ala Phe Tyr
                85                  90                  95
Val Ser Ile Gln Ala Val Leu Ser Leu Tyr Ala Ser Gly Arg Thr Thr
            100                 105                 110
Gly Ile Val Leu Asp Ser Gly Asp Gly Val Thr His Val Val Pro Ile
        115                 120                 125
Tyr Glu Gly Val Ala Leu Pro His Ala Ile Ser Arg Val Asp Met Ala
    130                 135                 140
Gly Arg Asp Leu Thr Asp Tyr Leu Met Lys Ile Leu Ala Glu Arg Gly
145                 150                 155                 160
Tyr Thr Phe Ser Thr Thr Ala Glu Arg Glu Ile Val Arg Asp Ile Lys
                165                 170                 175
Glu Lys Leu Cys Tyr Val Ala Leu Asp Phe Glu Gln Glu Ile Gln Thr
            180                 185                 190
Ala Ser Gln Ser Ser Ser Leu Glu Lys Ser Tyr Glu Leu Pro Asp Gly
        195                 200                 205
Gln Val Ile Thr Ile Gly Asn Glu Arg Phe Arg Ala Pro Glu Ala Leu
    210                 215                 220
Phe Gln Pro Xaa Val Leu Gly Leu Xaa Xaa Gly Gly Ile His Phe Asn
225                 230                 235                 240
Thr Phe Asn Ser Ile Met Lys Cys Asp Val Asp Val Arg Lys Gly
                245                 250                 255
```

<210> 23010
<211> 92
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (75),(80),(81)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23010
Arg Ser Trp Pro Ser Val Val Thr His Ser Pro Leu Pro Leu Ser Val
1 5 10 15
Lys Leu Phe Val Thr Ser Arg Arg Ser Phe Ala Thr Ser Leu Ser Thr
20 25 30
Leu Ser Arg Arg Phe Arg Leu Pro Pro Arg Ala Pro Ala Trp Arg Ser
35 40 45
Pro Met Asn Phe Pro Met Val Arg Ser Ser Pro Leu Val Thr Ser Val
50 55 60
Ser Val Leu Pro Arg Leu Ser Ser Asn Leu Xaa Phe Trp Val Trp Xaa
65 70 75 80
Xaa Ala Val Ser Thr Ser Thr Leu Ser Thr Pro Ser
85 90

<210> 23011
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23011
Arg Trp Val Arg Ser Ser Gly Met Cys Lys Ala Gly Phe Ala Gly Asp
1 5 10 15
Asp Ala Pro Arg Ala Val Phe Arg Lys Ser Thr Pro His Pro Ile Met
20 25 30
Leu Asn Ile Arg Val Asn Pro Leu Cys Pro Ile Ser Ser Leu Asp Val
35 40 45
Thr Val Gln Ile Val Ala Arg Gly Met Cys Gln Pro Leu Pro Leu Arg
50 55 60
Pro Val Gly
65

<210> 23012
<211> 290
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22),(23),(28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23012
Ser Leu Thr Asp Val Asn Ile Thr Phe His Asp Gly Val Glu Ser Val
1 5 10 15
Glu Val Asp Thr Ala Xaa Xaa Gln Thr Gln Asn Xaa Arg Leu Glu Glu
20 25 30
Ser Leu Gly Ser Thr Glu Thr Leu Val Thr Asn Gly Asp Asp Leu Thr
35 40 45
Ile Gly Lys Phe Ile Gly Leu Leu Gln Ala Gly Ala Leu Gly Gly Ser

```
    50                  55                  60
Leu Asn Leu Leu Leu Lys Val Glu Ser Asp Val Ala Lys Leu Leu Leu
65                  70                  75                  80
Asp Val Thr Asn Asn Phe Thr Leu Ser Gly Ser Gly Glu Cys Val Thr
                85                  90                  95
Thr Leu Gly Gln Asp Leu His Gln Val Val Arg Gln Ile Thr Ala Gly
            100                 105                 110
His Ile Asp Thr Gly Asp Gly Val Gly Glu Ser Asp Thr Leu Val Asp
        115                 120                 125
Gly Asp Asn Val Ser Asp Thr Ile Thr Arg Val Gln Asp Asp Thr Gly
    130                 135                 140
Gly Thr Thr Gly Ser Val Glu Gly Glu Asn Gly Leu Asp Gly Asp Val
145                 150                 155                 160
Glu Gly Gly Ser Val Glu Gly Leu Glu Asp Asn Leu Gly His Leu Leu
                165                 170                 175
Thr Val Gly Leu Gly Val Asp Gly Gly Phe Gly Gln Glu Asp Arg Val
            180                 185                 190
Leu Leu Arg Ser Asp Thr Glu Leu Val Val Glu Cys Val Met Pro Asp
        195                 200                 205
Leu Leu His Val Ile Pro Val Cys Asp Asn Thr Val Leu Asp Gly Val
    210                 215                 220
Ser Glu Gly Glu Asn Thr Thr Leu Arg Leu Cys Leu Ile Thr Asp Ile
225                 230                 235                 240
Arg Val Leu Leu Ala His Thr Asn His Asp Thr Val Leu Glu Ser Ser
                245                 250                 255
Ala Thr Met Ile Arg Ala Ser Val Thr Ala Gln Asp Glu Glu Arg Gly
            260                 265                 270
Glu Asn Leu Pro Met Val Thr Gly Ala Thr Asp Asn Gly Gly Tyr Leu
        275                 280                 285
Ala Ser
    290

<210> 23013
<211> 156
<212> PRT
<213> A.fumigatus

<400> 23013
Phe Val Leu Arg Leu Phe Leu Asp Asn Leu Leu Tyr Arg Tyr Leu Thr
1               5                   10                  15
Val Ser Leu Ala Ser Val Pro Thr Ala Glu Ile Leu Ala Arg Ala Gly
            20                  25                  30
Leu Asp Asp Thr Gly Asp Asp Leu Lys Gly Asp Leu Cys Arg Cys Gln
        35                  40                  45
Ser Gly Gly Leu Ala Leu Val Ile Val Ala Arg Gly Asp Leu Asp Asp
    50                  55                  60
Ile Arg Ala Asp Asn Val Gln Leu Leu Asn Ala Ala Gln Asn Ala Asp
65                  70                  75                  80
Glu Leu Ala Gly Gly Pro Ala Ala Arg Leu Arg Gly Ala Cys Ser Arg
                85                  90                  95
Arg Gly Gly Gly Val Gln His Ile Asp Val Asp Gly Gln Val Asn Gly
            100                 105                 110
Leu Phe Arg Val Glu Ala Asn Ala Phe Asp Asp Leu Val His Asp Ala
        115                 120                 125
His Gly Ala Gln Leu Val Asp Ile Ile Gly Val Asp Ala His Gly Leu
    130                 135                 140
```

```
His His Gly Ala Gly Arg Ile Thr Ser His Arg Gly
145                 150                 155

<210> 23014
<211> 163
<212> PRT
<213> A.fumigatus

<400> 23014
Met Arg Pro Leu Pro Ser Ala Pro Met Arg Arg Asp Pro Ser Ser Pro
1               5                  10                  15
Val Val Lys Thr Met Arg Ile His Ala Asp Asp Ile Asp Glu Leu Gly
            20                  25                  30
Pro Met Gly Ile Val Asp Lys Ile Ile Glu Arg Ile Gly Leu Asp Pro
        35                  40                  45
Glu Gln Pro Val Tyr Leu Ser Val Asp Ile Asp Val Leu Asp Pro Ser
    50                  55                  60
Thr Ala Pro Gly Thr Gly Thr Pro Glu Pro Gly Gly Trp Thr Thr Arg
65                  70                  75                  80
Glu Phe Ile Arg Ile Leu Arg Gly Ile Glu Lys Leu Asn Ile Val Gly
                85                  90                  95
Ala Asp Ile Val Glu Val Ser Pro Ser Tyr Asp Asn Lys Gly Glu Thr
            100                 105                 110
Thr Ala Leu Ala Ala Ala Gln Val Ala Phe Glu Ile Ile Thr Ser Ile
        115                 120                 125
Val Lys Ala Gly Ala Gly Glu Asp Leu Gly Gly Trp Tyr Gly Arg Lys
    130                 135                 140
Ala Asp Gly Gln Val Ser Val Glu Lys Ile Ile Lys Glu Glu Thr Lys
145                 150                 155                 160
Asp Glu Leu


<210> 23015
<211> 405
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (83),(100)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23015
Phe Gln Arg Arg Met Lys Phe Ser Ile Leu Pro Pro Ala Lys Gly Ser
1               5                  10                  15
Pro His Leu Ser His Pro Ser Lys Val Thr Leu Val Asp Val Glu Lys
            20                  25                  30
Glu Ile Ala Lys Phe Phe Ala Glu Lys Asn Gly Ser Ser Lys Glu Val
        35                  40                  45
Asp Leu Glu Ala Gln Gly Gly Ala Arg Lys Lys Arg His Ala Phe Ile
    50                  55                  60
Ser Ser Ile Arg Tyr Thr Ala Leu Asp Ile Tyr Arg Arg Leu Phe Ser
65                  70                  75                  80
Leu Val Xaa Leu Ala Asn Leu Ala Val Phe Ile Ala Val Met Thr Ala
                85                  90                  95
Asp Arg Lys Xaa Leu Ala Leu Val Asn Ala Thr Ala Ala Asn Val Leu
```

```
            100                 105                 110
Ala Cys Gly Leu Ala Arg Gln Pro Leu Val Val Asn Ala Ile Phe Val
        115                 120                 125
Ile Val Cys Ser Ile Pro Arg Ser Ala Pro Leu Arg Leu Arg Arg Val
    130                 135                 140
Ala Ala Lys Val Tyr His Tyr Gly Gly Val His Ser Gly Cys Gly Ile
145                 150                 155                 160
Ala Ser Phe Leu Trp Tyr Ala Gly Phe Val Gly Leu Met Ser Lys Glu
                165                 170                 175
Tyr Trp Ser Pro Ala Ala Gly Ala Gly Asn Ala Ala Phe Ser Ile Leu
            180                 185                 190
Pro Val Val Leu Ser Asn Ile Ile Leu Ala Leu Leu Leu Ala Ile Ile
        195                 200                 205
Leu Val Ala His Pro Ala Phe Arg Met Lys Lys His Asp Trp Phe Glu
    210                 215                 220
Leu Thr His Arg Phe Ser Ala Trp Val Val Val Val Leu Phe Val Ile
225                 230                 235                 240
Leu Leu Leu Val Phe Ser Gly Glu Ala Ser Arg Ala Ala Asn Gln Pro
                245                 250                 255
Leu Gly Thr Phe Leu Leu His Leu Pro Ala Phe Trp Phe Leu Val Ile
            260                 265                 270
Thr Val Leu Ala Ile Ile His Pro Trp Leu Leu Leu Arg Lys Val Ser
        275                 280                 285
Val Val Gly Glu Thr Leu Ser Pro His Ala Val Arg Leu His Met Asn
    290                 295                 300
His Thr Ser Thr Thr Phe Gly Lys Gly Ile Gln Leu Ala Thr His Pro
305                 310                 315                 320
Leu Gln Asp Trp His Gly Phe Ala Thr Phe Pro Asp Pro Asp Gly Ala
                325                 330                 335
Ser Phe Ser Cys Leu Val Ser Arg Ala Gly Asp Trp Thr Ser Ala Arg
            340                 345                 350
Ile Lys Cys Pro Pro Lys His Leu Trp Lys Arg Gly Val Leu Ile Tyr
        355                 360                 365
Gly Phe Ala Tyr Ala Met Arg Val Phe Lys Arg Ile Ile Ile Val Thr
    370                 375                 380
Thr Gly Ser Gly Ile Gly Pro Cys Leu Ser Ser Pro Arg Ala Gly Ser
385                 390                 395                 400
Ile Gln Ala Asp Ile
                405
```

<210> 23016
<211> 192
<212> PRT
<213> A.fumigatus

<400> 23016

```
Ala Val Glu Lys Tyr Asn Asp Ala Ser Asp Gln Gly Ser Glu Thr Arg
1               5                   10                  15
Ser Pro Arg Leu Val Gly His Pro Asp Ala Ala His Ser Ser Pro Trp
            20                  25                  30
Glu Leu Asp Pro Asp Ala Asp Asp Ala Leu Trp Glu Met Tyr Lys Asp
        35                  40                  45
Ile Ala Arg Lys Phe Glu Asp Asn Glu Asp Glu Val Arg Pro Leu Val
    50                  55                  60
Gln Pro Glu Lys Pro Glu Val Tyr Phe Asp Glu Asp Asp Glu Ile Pro
65                  70                  75                  80
```

```
Asp Glu Asp Asn Lys Gly Pro Lys Leu Ser Pro Lys Lys Arg Lys Glu
                  85                  90                  95
Leu Thr Lys Leu Ser Val Ala Glu Leu Lys Ala Met Val Arg Lys Pro
             100                 105                 110
Glu Ile Val Glu Trp Thr Asp Thr Ser Ala Pro Glu Pro Lys Ala Ser
         115                 120                 125
Ser Ser Ile Ser Arg Leu Thr Lys Asn Val Val Pro Cys Ala Cys Phe
     130                 135                 140
His Gly Phe Leu Lys Lys Arg Ile Ser Cys Ser Ser Lys Asn Glu Gly
145                 150                 155                 160
Val Asp Gln Thr Pro Phe Trp Pro Leu Pro Lys Ile His Thr Arg Lys
                 165                 170                 175
Asn Gly Tyr Leu Lys Lys Met Pro Lys Cys Arg Leu Trp Glu Lys Thr
             180                 185                 190

<210> 23017
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23017
Lys Ile Val Leu Leu Cys Asn His Gly Cys Ser Pro Ala Arg Asp Leu
1               5                  10                  15
Pro Trp Ile Met Trp His Ala Asp Thr Trp Ile Leu Gln Val Pro Ser
            20                  25                  30
Ser Ile Val Tyr Tyr Leu Ser Thr Thr Thr Leu Gly Thr Ser Gln His
        35                  40                  45
Asn Phe Phe Leu Ser Thr Thr Gln Ile Ile Asp Asp Thr Thr
    50                  55                  60

<210> 23018
<211> 287
<212> PRT
<213> A.fumigatus

<400> 23018
Thr Pro Tyr Ala Val Pro Ser Gly Pro Gly Arg Glu Asp Ala Arg Cys
1               5                  10                  15
Met Val Arg Asp Pro Ala Phe Pro Glu Ala Ala Thr Asp Trp Leu Ile
            20                  25                  30
Leu Ser Thr Pro Asp Gly His Tyr Leu Asn Leu Pro Val Met Asn Glu
        35                  40                  45
Thr Gly Glu Ile Val Gly Met Val Asp Val Leu Lys Leu Thr Tyr Ala
    50                  55                  60
Thr Leu Glu Gln Val Ser Gln Ser Phe Phe Arg Lys Ser Gly Leu Ser
65                  70                  75                  80
Thr Asp Pro Arg Cys Lys Ile Asn Ser Met Gln Ser His Asp Asp Glu
                85                  90                  95
Gly Pro Ala Trp Asn Lys Phe Trp Leu Ser Met Asp His Glu Ser Asp
            100                 105                 110
Ser Met Val Ser Gly Ser His Gln Ala Pro Asn Arg Ser Val Leu Ser
        115                 120                 125
Pro Glu Ser Pro Arg His Gly Val Asp Ser Val Leu Pro Asn Glu Ser
    130                 135                 140
Ala Ser His His Gly Gly Asp Glu Leu Ser Glu Tyr His Asp His His
145                 150                 155                 160
```

```
His Asn His Asp Glu Asn Thr Pro Phe Pro Phe Lys Phe Lys Ala Pro
                165                 170                 175
Ser Gly Arg Val His Arg Val Asn Val Val Thr Ser Ala Gly Val Ala
            180                 185                 190
Asp Leu Val Ala Gln Val Thr Ala Lys Leu Gly Asn Glu Leu Glu Ala
        195                 200                 205
Val Gly Gly Gly Ala Thr Val Glu Glu Gly Lys Leu Ser Asn Thr Gly
    210                 215                 220
Tyr Ala Leu Ser Tyr Leu Asp Asn Glu Gly Asp Thr Val Ser Ile Thr
225                 230                 235                 240
Thr Asp Gln Asp Leu Ala Asp Ala Val Ser Leu Ala Arg Arg Ser His
                245                 250                 255
Arg Asp Lys Val Asp Leu Phe Val His Asp Pro Ser Gln Pro Pro Ile
            260                 265                 270
Pro Ala Thr Leu Asp Pro Gln Pro Ala Pro Ala Lys Val Val Glu
        275                 280                 285
```

<210> 23019
<211> 227
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (120)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23019

```
Ile Ser Pro Tyr Leu Thr Asp Leu Pro Pro Ser Leu Pro Phe Leu Ser
1               5                   10                  15
Thr Ser Lys Phe Ser Ile Gln Asp Leu Asp Arg Ile Glu Glu Pro Thr
            20                  25                  30
Met Asp Ile His Arg Cys Arg Phe Val Pro Tyr Asn Pro Gln Ala Ile
        35                  40                  45
Asn Ala Leu Ser Phe Ser His Pro Pro Ser Ala Glu Leu Ala Gly Arg
    50                  55                  60
Gly Val Pro Thr Leu Arg Leu Ala Ile Gly Arg Ala Asn Gly Asp Ile
65                  70                  75                  80
Glu Ile Trp Asn Pro Met Arg Gly Ala Trp Leu Gln Glu Thr Val Met
                85                  90                  95
Arg Gly Gly Lys Asp Arg Ser Ile Glu Gly Leu Ala Trp Thr Leu Asp
            100                 105                 110
Pro Pro Glu Ala Gly Pro Asp Xaa Thr Lys Ile Pro Gly Lys Leu Arg
        115                 120                 125
Leu Phe Ser Ile Gly Tyr Ser Thr Ala Val Thr Glu Trp Asn Leu Glu
    130                 135                 140
Gln Gly Arg Pro Met Arg His Ser Ser Gly Asn Tyr Gly Glu Ile Trp
145                 150                 155                 160
Cys Ile Ala Ala Gln Pro Arg Trp Gln Ala Thr Lys Arg Gly Lys Asp
                165                 170                 175
Gly Lys Pro Leu Pro Pro Ala Glu Gly Glu Tyr Thr Gly Gln His Phe
            180                 185                 190
Ala Ala Gly Cys Ala Asp Gly Ser Ile Val Ile Leu Ser Thr Ala Asp
        195                 200                 205
Gly Asp Leu Lys Phe Leu Thr Ala Asp Ala Ser Ile His Lys Glu Ser
    210                 215                 220
```

Gln Ser Pro
225

<210> 23020
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23020
Cys Ser Lys Ala Val Gly Ser Gln Lys Gly Gly Ser Thr Gly Asp Ala
1 5 10 15
Phe Ile Phe Val Ala Leu Phe Ser Ile Pro Phe Gln Val Asp Tyr Tyr
20 25 30
Val Gly Thr Ser Asp Thr Glu Asp Ile Val Met Arg Gln Lys Glu Thr
35 40 45
Ile Ile Leu Cys Leu Leu Glu Thr Arg Tyr His Ile His Val
50 55 60

<210> 23021
<211> 61
<212> PRT
<213> A.fumigatus

<400> 23021
Phe Gly Lys His Val Gly Arg Arg Arg Met Met Lys Gly Lys Lys Glu
1 5 10 15
Lys Lys Arg Glu Gln Lys Thr Gly Trp Val Glu Leu Ile Gly Lys Glu
20 25 30
Pro Ser Lys Asp Lys Ala Val Gly Lys Glu Ser Ala Phe Arg Glu Asp
35 40 45
Gln Thr Arg Lys Glu Ala Trp Pro Gln His Arg Val Arg
50 55 60

<210> 23022
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23022
Leu Gly Lys Arg Glu Ser Leu Ile Ala Asp Arg Lys Ile Asp Cys Glu
1 5 10 15
Phe Asn Val Thr Arg Ile Val Trp Ala Asn Leu Arg Cys Trp Lys Phe
20 25 30
Val Arg Leu Trp Cys Phe Lys Leu Asp Asp Ile Arg Asn Arg Arg Phe
35 40 45
Glu Phe Glu Gln Leu Asn Asp Asn Thr Glu Ser Arg Leu Lys His Val
50 55 60

<210> 23023
<211> 278
<212> PRT
<213> A.fumigatus

<400> 23023
Gly Ala Pro Lys Cys Gly Ser Phe Arg Tyr Met Ile Arg Val Val Val
1 5 10 15

```
Asn Asn Lys Pro Asp Gly Glu Ser Asp Ala Arg Lys Ser Leu Ala Ser
            20                  25                  30
Ala Gly Lys Lys Val Arg Ile Ile Pro Thr Val Asp Glu Glu Pro Pro
        35                  40                  45
Leu Asn Val Phe Glu Gly Asp Asp Val Tyr Cys Thr Arg Lys Glu Lys
    50                  55                  60
Asp Val Lys Arg Gly Leu Met Arg Gly Lys Leu Gly Arg Leu Val Val
65                  70                  75                  80
Ala Ala Ser Gln Pro Lys Pro Ile Gln Leu Thr Ala Pro Gln Tyr Glu
                85                  90                  95
Thr Lys Glu Ser Val Gly Thr Val Ala Thr Ile His Leu Arg Phe Asp
            100                 105                 110
Pro Val Gly Asn Glu Ala Pro Pro Arg Leu Gly Ser Val Trp Ser Arg
        115                 120                 125
Leu Arg Val Ser Thr Tyr Tyr Ala Ala Val Pro Trp Glu Asp Tyr Pro
    130                 135                 140
Ser Ala Leu Ser Ala Thr Met Trp Ala Gln Val Gly Lys Ser Val Tyr
145                 150                 155                 160
Thr Glu Thr Val Pro Leu Ser Thr Leu Cys Val Ala Ser Ala Gln Trp
                165                 170                 175
Thr Lys His Ser Ala Ser Ser Pro Val Arg Arg Ser Ser Leu Glu Ser
            180                 185                 190
Thr Ser Ser Ser Glu Ser Leu Thr Gly Pro Ser Ala Ser Phe Ser Arg
        195                 200                 205
Ser Thr Tyr Tyr Thr Ala Ser Val Val Val Pro Val Ser Leu Pro Ala
    210                 215                 220
Ser Lys Ala Phe Val Pro Thr Phe Tyr Ser Cys Leu Ile Ser Arg Met
225                 230                 235                 240
Tyr Thr Leu Asp Leu Ser Ile Ser Tyr His Thr Pro Asn Ala Asn Ile
                245                 250                 255
Leu Thr Pro Thr Ala Ser Leu Arg Leu Pro Leu Gln Leu Thr Ser Gln
            260                 265                 270
Pro Lys Ala Asp Thr Ser
        275
```

<210> 23024
<211> 154
<212> PRT
<213> A.fumigatus

```
<400> 23024
Leu Arg Pro Ser Thr Arg Gln Arg Ser Leu Ser Gly Gln Trp Gln Pro
1               5                   10                  15
Phe Ile Cys Ala Ser Ile Leu Ser Ala Thr Lys Arg Arg Pro Gly Ser
            20                  25                  30
Ala Ala Ser Gly Val Asp Cys Ala Tyr Arg His Thr Thr Pro Arg Ser
        35                  40                  45
Pro Gly Lys Thr Thr Pro Pro Pro Cys Arg Arg Pro Cys Gly His Arg
    50                  55                  60
Leu Gly Arg Val Cys Thr Leu Arg Pro Ser Leu Cys Leu Pro Ser Ala
65                  70                  75                  80
Ser Pro Arg Pro Ser Gly Leu Asn Thr Arg Pro Arg Ala Arg Ser Ala
                85                  90                  95
Gly Ala Pro Trp Ser Arg Leu Pro Arg Pro Asn Arg Ser Pro Asp Pro
            100                 105                 110
Leu Pro Leu Ser Arg Gly Ala Pro Thr Ile Pro Pro Arg Trp Trp Cys
```

```
        115                 120                 125
Arg Ser Pro Tyr Pro Arg Pro Arg Pro Leu Phe Arg Pro Ser Thr Pro
    130                 135                 140
Ala Ser Ser Pro Ala Cys Thr Leu Ser Thr
145                 150
```

<210> 23025
<211> 132
<212> PRT
<213> A.fumigatus

<400> 23025

```
Leu Phe Ile Leu Arg Gln Ser Thr Glu Met Leu Thr Gly Ala Ser Tyr
1               5                   10                  15
Lys His Gly Val Ile His Pro Leu Ile Glu Asp Ser Leu Leu Arg Ser
            20                  25                  30
Val Arg Asn Glu Ile Lys Glu His Leu Asp Phe Thr Glu Lys Glu Thr
        35                  40                  45
Asp Ile Tyr Lys Ile Phe Gln Ser Gly Asp Leu Ala Asn Leu Asp Gly
    50                  55                  60
Leu Asp Asp Ala Ser Leu Ser Lys Leu Pro Ser Leu Leu Lys Leu Arg
65                  70                  75                  80
Asp Ala Leu Tyr Ser Ala Arg Phe Arg Glu Tyr Leu Ser Ala Val Thr
                85                  90                  95
Gly Ser Gly Lys Leu Ser Gly Arg Lys Thr Asp Met Ala Ile Asn Ile
            100                 105                 110
Tyr Asn Glu Gly Cys His Leu Leu Cys His Asp Asp Val Ile Gly Ser
        115                 120                 125
Arg Arg Leu Ser
    130
```

<210> 23026
<211> 76
<212> PRT
<213> A.fumigatus

<400> 23026

```
Glu Arg Leu Ser Leu Ser Ile Leu His Asn Ser Ser Ile Lys Val Ser
1               5                   10                  15
Ile Tyr Thr Cys Lys Met Lys Arg Lys Thr Asp Thr Arg Glu Ala Leu
            20                  25                  30
Asn Gly Asn Gly Gln Pro Glu Ser Lys Lys Arg Ala Leu Ser Asn Glu
        35                  40                  45
Glu Val Ala Ala Arg Phe Arg Asp Gly Leu Phe Glu Pro Ser Glu Gln
    50                  55                  60
Gln Lys Tyr Thr Lys Ala Tyr Ala Gln Ser Ser Pro
65                  70                  75
```

<210> 23027
<211> 197
<212> PRT
<213> A.fumigatus

<400> 23027

```
Ala Pro Gly Leu Ile Leu Gln Ala Asn Glu Asn Pro Pro Ser Gly Gln
1               5                   10                  15
```

```
Gln Ser Gln Gln Ile Arg Ser Glu Glu Asp Asp Arg Ser Ile Arg Lys
            20                  25                  30
Leu Arg Glu Val Phe Pro Pro Val Glu Thr Ser Leu Ser Gln Leu Pro
        35                  40                  45
Glu Ala Lys Lys Leu Leu Ile Leu His Ser Leu Leu Leu Leu Val Leu
    50                  55                  60
Ser Leu Glu His Tyr Asn Ala Trp Ser Arg Val Leu Met Leu Phe Val
65                  70                  75                  80
Thr Ser Ser Leu Gly Leu Asp Val Lys Leu Leu Asn Glu Asp Glu Val
                85                  90                  95
Lys Val Ala Arg Gly Leu Leu Asp Thr Ala Leu Ala Leu Ser Ser Asn
            100                 105                 110
Ala Pro Arg Gln Asp Glu Ser Arg Ser Arg Asp Ser Ser Arg Lys Trp
        115                 120                 125
Lys Val Gly Ile Ala Ser Val Ala Gly Ala Ala Leu Ile Gly Ile Thr
    130                 135                 140
Gly Gly Leu Ala Ala Pro Leu Val Ala Ala Gly Leu Gly Thr Val Met
145                 150                 155                 160
Gly Gly Leu Gly Leu Gly Ala Thr Ala Ala Ala Gly Tyr Leu Gly Ala
                165                 170                 175
Leu Ala Gly Ser Gly Val Val Ile Ser Gly Leu Phe Gly Ala Tyr Gly
            180                 185                 190
Gly Arg Met Thr Gly
        195
```

<210> 23028
<211> 63
<212> PRT
<213> A.fumigatus

```
<400> 23028
Thr Gly His Pro Pro Thr Ile Ser Thr Glu Lys Ser Ala Asp Asp Asn
1               5                   10                  15
Thr Thr Ser Ser Glu Ser Ser Glu Ile Pro Cys Cys Gly Gly Gly Ala
            20                  25                  30
Lys Pro Lys Ala Ala His Asp Ser Thr Lys Pro Ser Cys Asn Lys Gly
        35                  40                  45
Arg Ser Gln Ser Thr Ser Asp Pro Asp Gln Gly Ser Thr Arg Asn
    50                  55                  60
```

<210> 23029
<211> 72
<212> PRT
<213> A.fumigatus

```
<400> 23029
Arg Met Cys Gln Asp His Ala Arg Arg Trp Gln Ser Phe Leu Gly Arg
1               5                   10                  15
Val Gly Leu Ser Arg Pro Leu Phe Lys Lys Ile Leu Asn Thr Phe Lys
            20                  25                  30
Pro Trp Thr Met Leu Gly Ser Ala Thr Ala Ala Asn Glu Lys Glu Leu
        35                  40                  45
Pro Ala Phe Arg Ala Leu Glu Gln Ala Leu Glu Ile Asp Pro Asn Asn
    50                  55                  60
Leu Asp Ala Leu Met Gly Ala Gly
65                  70
```

<210> 23030
<211> 351
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (248)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23030
Met Met Asp Glu Phe Ala Ala Gln Gln Pro Gly Gln Ile Pro Gly Thr
1 5 10 15
Ala Pro Gln Pro Phe Ala Met Glu Gln Leu Arg Arg Glu Leu Asp His
20 25 30
Phe Gln Thr Thr Pro Pro Arg Thr Gly Ser Pro Gly Trp Ala Ala Glu
35 40 45
Phe Asp Thr Gly Glu His Ala Arg Met Glu Ala Ala Phe Ala Gly Pro
50 55 60
Thr Gly Pro Leu Met Asn Asn Gly Ser Ala Phe Thr Pro Ala Glu Phe
65 70 75 80
Ala Arg Phe Gln Gln Gln Ser Arg Val Gly Met Pro Gln Thr Ser Ser
85 90 95
Pro Ala Thr Ser Val Ser Pro Val Met Ala Gly Tyr Gln Arg Pro Met
100 105 110
Gly Met Gly Tyr Met Gly Met Gly Gly Met Gly Met Met Arg Pro Ser
115 120 125
Tyr Thr Pro Met Gly Met Gln Gln Gln Pro Ala Glu Ala Ala Thr Gln
130 135 140
Asp Lys Gly Lys Gly Arg Met Val Glu Leu Asp Asp Glu Asn Trp Glu
145 150 155 160
Ala Gln Phe Ala Glu Met Glu Thr Ala Gly Asn Gln Thr Leu Asp Asp
165 170 175
Glu Ala Asn Ala Ala Ile Glu Ala Glu Leu Asn Asp Leu Asp Arg Ser
180 185 190
Val Pro Thr Thr Asp Thr Gly Asn Ala Gln Asp Tyr Asp Ala Phe Glu
195 200 205
Ser Val Trp Gln Arg Val Gln Ala Glu Thr Ala Thr Ser Arg Lys Leu
210 215 220
Ala Asp Glu Asp Ala Ser Phe Glu Ile Asn Asp Asn Leu His Met Gly
225 230 235 240
Asp Leu Gly Glu Trp Asp Gly Xaa Asp Asn Leu Gln Thr Arg Leu Arg
245 250 255
Asp Pro Gln Leu Gly Asp Tyr Met Phe Glu Glu Glu Asn Val Phe Arg
260 265 270
Asn Val Ala Asn Pro Phe Glu Glu Cys Val Lys Ile Met Arg Glu Gly
275 280 285
Gly Asn Leu Ser Leu Ala Ala Leu Gly Phe Arg Gly Arg Cys Ser Lys
290 295 300
Arg Ser Ser Thr Arg Ser Asn Pro Gly Pro Cys Leu Asp Pro Pro Gln
305 310 315 320
Arg Gln Met Arg Arg Ser Phe Leu Leu Phe Val Pro Trp Asn Arg Arg
325 330 335
Trp Arg Ser Ile Pro Thr Ile Trp Thr Pro Leu Trp Gly Leu Ala
340 345 350

<210> 23031
<211> 69
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23031
Ile Gly Tyr Arg Thr Pro Ser Ser Pro Met His Thr Met Trp Gln Ala
1 5 10 15
Gly Asp Pro Val Ser Val His Asn Lys Xaa Pro Met Val Lys Glu Leu
20 25 30
Lys Trp Tyr Ala Phe Tyr Ile Ala Leu Glu Lys Tyr Gln Gln Ser His
35 40 45
Tyr Ser Leu Asp Ser Ser Leu Asn Thr Ala Pro Ile Gln Arg Val Thr
50 55 60
Pro Asn Pro Asp Glu
65

<210> 23032
<211> 266
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (207)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23032
Ala Val Phe Ala Gly Leu Asn Val Asn Pro Asp Ser Trp Ser Cys Ile
1 5 10 15
Met Gln Arg Gln Arg Lys Asn Leu Met Pro Ala Phe Ser Tyr Arg His
20 25 30
Ile Lys Asn Leu Tyr Pro Ile Phe Trp Ser Lys Ser Ile Glu Met Val
35 40 45
Lys Leu Ile Glu Lys Asp Leu His Ser Arg Ala Asp Ala Lys Asp Asn
50 55 60
Ile Val Arg Val Ser Glu Trp Ala Ser Arg Ala Thr Leu Asp Ile Ile
65 70 75 80
Gly Val Ala Gly Met Asp His Asp Phe Gly Ser Leu His Asp Ser Asn
85 90 95
Asn Glu Leu Thr Lys His Tyr Arg Arg Leu Leu Glu Glu Pro Pro Leu
100 105 110
Ala Met Arg Ile Ile Phe Val Leu Gly Val Leu Phe Gly Ser Val Gly
115 120 125
Val Val Glu Ser Leu Pro Leu Lys Arg Asn Arg Glu Ile Arg Glu Ser
130 135 140
Ser Leu Tyr Ile Arg Asp Val Ala Arg Gln Met Ile Arg Lys Lys Glu
145 150 155 160
Ala Lys Met Lys Ser Gln Ala Ser Ala Glu Thr Gly Thr Asp Ile Val
165 170 175

```
Ser Val Ala Leu Glu Ser Gly Ala Phe Thr Glu Glu Glu Leu Val Asp
            180                 185                 190
Gln Met Met Thr Phe Leu Ala Ala Gly Pro Gln Thr Thr Pro Xaa Pro
        195                 200                 205
Ser His Cys Tyr Cys Thr Pro Cys Ala Asn Phe Arg Thr Cys Lys Arg
    210                 215                 220
Pro Pro Ala Arg Asn Ser Leu Pro Leu Ser Pro Ile Ser Pro Arg Asp
225                 230                 235                 240
Pro Lys Pro Ser Ser Glu Ala Lys Phe Asn Ser Phe Leu Tyr Ser Asn
                245                 250                 255
Pro Ser Gly Lys Lys Val Phe Gly Ser Pro
            260                 265
```

<210> 23033
<211> 269
<212> PRT
<213> A.fumigatus

<400> 23033

```
Ala Gln Ser Arg Trp Pro His Glu Phe Arg Gly Glu Ala Ile Tyr Thr
1               5                   10                  15
Ala Glu Val Asp Val His Ser Pro Lys Leu Thr Val Gly Asp Thr Leu
            20                  25                  30
Tyr Phe Ala Ala Arg Ala Arg Thr Pro Arg His Ile Phe Gly Gly Val
        35                  40                  45
Asn Ala Thr Gln Tyr Ala Gly His Met Arg Asp Val Ile Met Ala Met
    50                  55                  60
Phe Gly Ile Ser His Thr Lys Asn Thr Ile Val Gly Asn Asp Phe Ile
65                  70                  75                  80
Arg Gly Val Ser Gly Gly Glu Arg Lys Arg Val Ser Ile Ala Glu Ala
                85                  90                  95
Cys Leu Ser Asn Ala Pro Leu Gln Cys Trp Asp Asn Ser Thr Arg Gly
            100                 105                 110
Leu Asp Ser Ala Asn Ala Ile Glu Phe Cys Lys Thr Leu Arg Met Gln
        115                 120                 125
Ala Asp Ile Asn Gly Thr Thr Ala Cys Val Ser Leu Tyr Gln Ala Pro
    130                 135                 140
Gln Ala Ala Tyr Asp Tyr Phe Asp Lys Val Leu Val Leu Tyr Glu Gly
145                 150                 155                 160
Arg Glu Ile Tyr Phe Gly Pro Thr Ser Met Ala Lys His Tyr Phe Leu
                165                 170                 175
Gln Met Gly Phe Val Cys Pro Asp Arg Gln Thr Asp Ala Asp Phe Leu
            180                 185                 190
Thr Ser Met Thr Ser His Leu Glu Arg Val Val Gln Pro Gly Tyr Glu
        195                 200                 205
Asp Arg Val Pro Arg Thr Pro Asp Glu Phe Ala Ala Arg Trp Lys Ala
    210                 215                 220
Ser Pro Gln Arg Ala Gln Leu Met Gln His Ile Lys Ser Tyr Asn Ala
225                 230                 235                 240
Lys Phe Ala Leu Asp Gly Glu Tyr Leu Asp Lys Phe Lys Gln Ser Arg
                245                 250                 255
Arg Ala Leu Asn Arg Arg Thr Gly Gln Lys Cys Val Glu
            260                 265
```

<210> 23034
<211> 93

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23034
Tyr Phe Pro Asp Tyr Glu Gly Gly Ala Xaa Tyr Ala Ala Ala Cys Asp
1 5 10 15
Tyr Ile Leu Asn Arg Phe Val Ser Leu Asn Gln Ala Glu Gln Lys Gln
20 25 30
Ile Tyr Thr His Phe Thr Cys Ala Thr Asp Thr Thr Gln Ile Arg Phe
35 40 45
Val Met Ala Ala Val Asn Gly Ala Ser Ser Glu Asp Pro Cys Ile Leu
50 55 60
Phe Asp Tyr Arg Pro Leu Thr Ser Ser Arg Tyr His Tyr Pro Arg Glu
65 70 75 80
Pro Gln Thr Leu Trp Ser Asp Leu Met Ser His Tyr Thr
85 90

<210> 23035
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23035
Leu Asn Lys Arg Thr Leu Leu Glu Tyr Ile Leu Ile Asn Val Val Ser
1 5 10 15
Thr Ser Leu Pro Gln Phe Gly Leu Gly Glu Glu Gly Val Trp Cys Arg
20 25 30
Lys Gly Lys Glu Gly Ser Lys Gln Ala Thr Pro Lys Met Tyr Leu Tyr
35 40 45
Leu Asn Pro Arg Arg Thr Gln Asp Val Arg Val Trp Glu Gly His Leu
50 55 60
Ile Val Tyr Val Ile Gln
65 70

<210> 23036
<211> 145
<212> PRT
<213> A.fumigatus

<400> 23036
Thr Cys Arg Asn Phe Ala Thr Leu Ala Gln Arg Gly Tyr Tyr Asn Asn
1 5 10 15
Met Ile Phe His Arg Ile Ile Pro Asn Phe Met Val Gln Thr Gly Asp
20 25 30
Pro Thr Gly Thr Gly Arg Gly Gly Ser Ser Ile Tyr Gly Glu Lys Phe
35 40 45
Glu Asp Glu Ile His Pro Gly Leu Lys His Thr Gly Ala Gly Val Leu
50 55 60
Ser Met Ala Asn Ser Gly Pro Asn Thr Asn Gly Ser Gln Phe Phe Ile
65 70 75 80
Thr Leu Ala Pro Thr Pro Trp Leu Asp Gly Lys His Thr Ile Phe Gly

```
                85                  90                  95
Arg Val Lys Arg Gly Met Arg Val Ile Gln Arg Met Gly Leu Val Lys
            100                 105                 110
Thr Asn Ser Glu Asp Arg Pro Val Asp Glu Val Asn Ile Ile Arg Ala
        115                 120                 125
Lys Val Val Lys Lys Ala Ser Ser Arg Arg Cys Arg Lys Gly Pro Cys
    130                 135                 140
Thr
145
```

<210> 23037
<211> 201
<212> PRT
<213> A.fumigatus

<400> 23037

```
Arg Arg Pro Leu Met Phe Asn Ser Ser Lys Ser Leu Phe Ala Tyr Cys
1               5                   10                  15
Leu Pro Leu Ile Ile Asp Cys Ile Leu Gly Phe Arg His Gln Gly Gln
            20                  25                  30
Ile Pro Ser Pro Phe Ala Cys Ile Thr Lys Ile Leu Gly Thr Thr Pro
        35                  40                  45
Lys His Pro Ile His Thr Met Ala Thr Phe Ser Ala Val Ser Arg Arg
    50                  55                  60
Pro Phe Ile Ala Leu Pro Phe Leu Ile Pro Ser Cys Glu Pro Val Ala
65                  70                  75                  80
Leu Glu Leu Arg Arg Asn Gln Ser Ser Tyr Arg Arg Thr Lys Gln Arg
                85                  90                  95
Leu Arg Val Lys Pro Asp Ala Ser Phe Gly Phe Ser Ser Asp Gln Thr
            100                 105                 110
Gln Asp His Ile Ile Phe Asn Pro Pro Ser Ser Ala Pro Ser Val Phe
        115                 120                 125
His Thr Pro Thr Lys Phe Leu Pro Pro Asp Asp Ala Arg Arg Thr Leu
    130                 135                 140
Arg Thr Asp Val Ser Met Lys Ser Asp Gln Asn Pro Glu Asn Leu Pro
145                 150                 155                 160
Pro Val Phe Asn Ser Pro Thr Glu Lys Lys Tyr His Leu Thr Pro Ser
                165                 170                 175
Asp Ile Glu Glu Ile Arg Lys Leu Arg Leu Ser Asp Pro Met Thr Trp
            180                 185                 190
Ser Arg Trp Lys Leu Ala Lys Arg Phe
        195                 200
```

<210> 23038
<211> 104
<212> PRT
<213> A.fumigatus

<400> 23038

```
Ile Val Gln Ile Arg Ile Ala Asn Pro Leu Phe Leu Gln Arg Ser Ala
1               5                   10                  15
Ala Leu Lys Ile Asp Trp Val Lys Val Thr Ser Ser Leu Gly Leu Arg
            20                  25                  30
Gly Gln Thr Ala Ala Ser Leu Gln Ala Phe Lys Lys Arg Asn Asp Asp
        35                  40                  45
Ala Arg Arg Lys Val Gln Leu Leu Ser Glu Gln Pro Gln Thr Val Asn
```

```
    50                  55                  60
Phe Asp His Tyr Arg Ser Ile Leu Lys Asn Gln Ala Ile Val Asp Glu
65                  70                  75                  80
Ile Glu Gly Tyr Val Lys Asn Phe Lys Pro Ala Thr Tyr Asp Val Asn
                85                  90                  95
Arg His Leu Lys Ala Met Ala Ala
            100
```

<210> 23039
<211> 91
<212> PRT
<213> A.fumigatus

<400> 23039

```
Asn Ala Ile Ala Asp Pro Ser Ala Leu Val Val Glu Asn Glu Trp Gly
1               5                   10                  15
Asp Thr Val Gly Ser Trp Lys Asn Glu Gly Ala Pro Asp Leu His Leu
            20                  25                  30
Leu Thr Lys Glu Glu Val Glu Leu Cys Asn Val Leu His Ile Gln Pro
        35                  40                  45
Lys Pro Tyr Leu Val Ile Lys Glu Thr Leu Leu Lys Glu Ala Met Lys
    50                  55                  60
Gln Gly Gly Ser Leu Lys Lys Lys Asp Ala Arg Ala Ile Cys Lys Val
65                  70                  75                  80
Gly Ser Thr Ser Leu Leu Phe Arg Ser Val Phe
                85                  90
```

<210> 23040
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (31)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23040

```
Tyr Pro Gly Ile Gln Ala Lys Cys Leu Ile Leu Ser Gly Gln Tyr Asn
1               5                   10                  15
Gly Leu Lys Pro Tyr Leu Gly Trp Asn Ala Leu Pro Phe Leu Xaa Phe
            20                  25                  30
Ala Ile Ser Ile Leu Val Ser Gln Thr Lys Met Leu Val Arg Lys Lys
        35                  40                  45
Asn Gly Thr Pro Pro Gly Ile Arg Asn Pro Gly Thr Ser Pro
    50                  55                  60
```

<210> 23041
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23041

```
Ser Asp Pro Gln Ser Val Thr Pro Val Val Asn Thr Tyr Leu Cys Phe
1               5                   10                  15
Trp His Ser Val Gly Asn Ser Val Asp Leu Ser Val Ser Arg Asp Pro
```

```
            20                  25                  30
Met Ser Thr Leu Leu Cys Met Gly Phe Glu Met Ile Ser Thr Ala Arg
        35                  40                  45
Ala Glu Val Thr Gly Gln Glu Tyr Leu Glu Tyr Tyr Leu Glu Met Lys
    50                  55                  60
Tyr Ile Asp Phe Gln Pro Leu Gln Thr Ala Met Gln Pro Gln Trp Val
65                  70                  75                  80
Cys Gly Glu Gln Ala Pro Ala Phe
                85
```

<210> 23042
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23042

```
Lys Gln Leu Thr Asn Thr Arg Ile Ser His Ser Gly Tyr Ala Tyr Ile
1               5                   10                  15
Leu Ser Tyr Ile Arg Phe Ile Pro Ser Val Asp Ser Thr Ala Ser Phe
            20                  25                  30
Gly Lys Leu Leu Lys Lys Arg Lys Ser Thr Glu Thr Met Ala Thr Ser
        35                  40                  45
Tyr Gln Pro Pro Ser Gln Glu Gly His Tyr Pro Arg Lys Tyr Tyr Phe
    50                  55                  60
Lys Ala Glu Pro Asp Gln Tyr Thr Cys
65                  70
```

<210> 23043
<211> 120
<212> PRT
<213> A.fumigatus

<400> 23043

```
Ser Pro Ser Ile Phe Ala Arg Pro Ala Ser Ala Leu Ser Met Val Ser
1               5                   10                  15
Ser Ser Ala Gly Gly Ser Ser Val Ser Ala Val Ser Asn Glu Phe Ser
            20                  25                  30
Ala Ser Thr Ser Ala Ile Ser Ser Thr Arg Ser Ser Ser Gly Arg Glu
        35                  40                  45
Lys Pro Ala Lys Leu Ala Ile Gln Ser Pro Ser Gly Lys Ile Leu Arg
    50                  55                  60
Leu Thr Arg Lys Ala Asp His Met Ile Ser Ser Asp Ser Ser Asp Pro
65                  70                  75                  80
Thr Ala Asp Gly Ser Val Trp Glu Thr Val Ile Lys Ile Gly Glu Arg
                85                  90                  95
Gly Thr Trp Arg Gly Leu Val Leu Ala Asp Arg Val Ala Arg Trp Cys
            100                 105                 110
Val Phe Cys Glu Trp Glu Cys Phe
        115                 120
```

<210> 23044
<211> 100
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (90)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23044
His Phe Cys Trp Val Cys Ala His Gly Trp Glu Ala Leu Arg Arg Gly
1 5 10 15
Trp Ala His Gly Glu Val Val Glu Arg Cys Trp Tyr Gly Cys Lys Pro
20 25 30
Phe Phe Pro Leu Leu Arg Ile Leu Thr Arg Thr Gly Ala Val Pro Tyr
35 40 45
Ala Lys Thr Ala Leu Pro Val Thr Leu Leu Ser Phe Glu Ser Tyr Asn
50 55 60
Gly Leu Trp Gly Arg Cys Leu Asn Pro His Val Pro Glu Tyr Ser Pro
65 70 75 80
Gly Gly Ser Thr Gly Gly Glu Gly Ala Xaa Cys Leu Pro Leu Gly Pro
85 90 95
Gly Gly Val Ser
100

<210> 23045
<211> 151
<212> PRT
<213> A.fumigatus

<400> 23045
Arg Ile Asn Arg Asp Gln Lys Gln Lys Glu Arg Ala Ala Arg Phe Ala
1 5 10 15
Ser Leu Ser Pro Asp Tyr His Thr Ala Phe Thr Ala Ser Asp Lys Ser
20 25 30
Ile Ile Asn Thr Pro Ile Glu Gln Leu Val Glu Ser Val His Lys Ser
35 40 45
His Leu Ser Pro Thr Asp Val Leu Arg Thr Tyr Gly Lys Val Ala Val
50 55 60
Lys Ala Gln Glu Arg Thr Asn Cys Val Thr Glu Leu Leu Leu Pro Glu
65 70 75 80
Ala Glu Thr Trp Leu Gln Lys Glu Val Asn Leu Lys Gly Pro Leu Ala
85 90 95
Gly Ile Pro Val Ser Leu Lys Asp Ser Val Gln Val Lys Gly Phe Asp
100 105 110
Thr Ser Val Gly Tyr Ala Arg Met Ala Gly Lys Pro Cys Ala Glu Asp
115 120 125
Gly Pro Met Val Lys Leu Leu Lys Asp Ala Gly Met Ala Ala Asn Leu
130 135 140
Phe Phe Leu Cys Cys Val Ser
145 150

<210> 23046
<211> 254
<212> PRT
<213> A.fumigatus

<400> 23046
Gln Leu Ala Gln Leu Pro Arg Asn Ser Thr Glu Gly Leu Gly Arg Ile
1 5 10 15
Arg His Ser Ser Asp Leu Thr Lys Arg Leu Ala Glu Leu Glu Thr Glu

```
            20                  25                  30
Tyr His Lys Ser Tyr Thr Arg Pro Ala Asn Ser Gly Gln Val Ala Val
        35                  40                  45
Arg Pro Cys Leu His Leu Gln Glu Gly Phe Val Ala Arg Ser Ile Asn
    50                  55                  60
Ser Glu Glu Asp Gln Leu Tyr Val Asn His Ile Ala Leu Ser Leu Gly
65                  70                  75                  80
Pro Gly Leu Asp Ser Gly Arg Leu Arg Phe Ala Trp Gln Asp Thr Ala
                85                  90                  95
Asp Asn Ser Glu Ile Leu Arg Thr Cys Phe Ala Pro Leu Glu Lys Glu
            100                 105                 110
Ile Val Gln Val Val Leu Thr Pro Gly Gly Ala Ile Ser Trp Thr Glu
        115                 120                 125
Asp Glu Tyr Asp Ser Leu Glu Asp Cys Ile Lys Glu Gln Arg Ala Arg
    130                 135                 140
Gln Gln Glu Ile Ser Arg Gly Ile Ile Lys Asn Met Thr Asp Val Pro
145                 150                 155                 160
Pro Val Arg Phe His Leu Ala Thr Leu Ser Ser Lys Arg Pro Leu Val
                165                 170                 175
Leu Phe Ile Ala Ile His His Ala Leu Tyr Asp Gly Glu Ser Phe Ser
            180                 185                 190
Met Leu Leu Glu Asp Val Ala Ala Arg Tyr Val Gly Glu Pro Val Thr
        195                 200                 205
Arg Arg Gly Ser Pro Ala Ala Phe Ile Asp His Val Tyr Gly Gln Asn
    210                 215                 220
Leu Glu Lys Ala Gln Gln His Trp Val Asn Ala Leu Ser Asp Cys Gln
225                 230                 235                 240
Pro Thr Thr Leu Pro Trp Phe His His Gly Gly Arg Arg Ser
                245                 250
```

<210> 23047
<211> 184
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (178)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23047

```
Met Tyr Arg Thr Gly Asp Ile Gly Arg Leu Met Ser Asp Asp Ser Val
1               5                   10                  15
Glu Tyr Val Gly Arg Gly Asp Asp Gln Thr Lys Ile Arg Gly Gln Arg
            20                  25                  30
Leu Glu Leu Gly Glu Val Ser Glu Val Ile Arg Ser Ser Ser Pro Val
        35                  40                  45
Gln Ile Gly Val Val Thr Thr Val Thr Lys His Pro Gly Leu Ala Arg
    50                  55                  60
Pro Gln Leu Ile Ser Phe Ile Ala Arg Ser Gly Asp Lys Ser Arg Gln
65                  70                  75                  80
Arg Ile Gly Asp Ala Thr Ile Ile His Ser Asp Leu Ala Thr Leu Gly
                85                  90                  95
Lys Glu Leu Arg Asp Ala Cys Gln Arg Lys Leu Pro Ala Tyr Met Val
            100                 105                 110
Pro Glu Ile Ile Leu Pro Ile Thr Phe Ile Pro Leu Ala Pro Met Ser
```

```
        115                 120                 125
Gly Lys Ala Asn Ile Lys Glu Leu His Ser Met Phe Ser Ser Leu Pro
    130                 135                 140
Leu Ala Ser Ile Leu Gln Gly Asn Asn Pro Gly Thr Ser Asp Thr Ala
145                 150                 155                 160
Ala Phe Thr Asp Arg Pro Leu Ser Ser Asp Lys Lys Ala Val Val Ser
                165                 170                 175
Glu Xaa Leu Arg Cys Asp Gln Gly
            180
```

<210> 23048
<211> 317
<212> PRT
<213> A.fumigatus

<400> 23048

```
Leu Ser Val Ser Gly Gln Pro Pro Gly Leu Thr Gly Asp Val Arg Leu
1               5                   10                  15
Thr Glu Gly Lys Ile Arg Met Gly Ala Thr Arg Ser Phe Cys Pro Gln
            20                  25                  30
Tyr Ala Trp Ile Gln Asn Val Ser Val Arg Glu Asn Ile Leu Phe Gly
        35                  40                  45
Ser Asp Tyr Asp Glu Glu Phe Tyr Asp Arg Val Ile Asp Ala Cys Ala
    50                  55                  60
Leu Arg Ala Asp Leu Asp Ile Phe Pro Asn Gly Asp Gln Thr Glu Ile
65                  70                  75                  80
Gly Glu Arg Gly Ile Thr Val Ser Gly Gly Gln Lys Gln Arg Ile Asn
                85                  90                  95
Ile Ala Arg Ala Val Tyr Ser Lys Ala Asp Ile Ile Leu Met Asp Asp
            100                 105                 110
Pro Leu Ser Ala Val Asp Ala His Val Gly Arg His Ile Met Asp Lys
        115                 120                 125
Ala Ile Cys Gly Leu Leu Lys Asp Lys Cys Arg Val Leu Ala Thr His
    130                 135                 140
Gln Leu His Val Leu Ser Arg Cys Asp Arg Ile Ile Val Met Asn Glu
145                 150                 155                 160
Gly Arg Ile Asp Ala Ile Gly Thr Phe Asp Asp Leu Val Arg Thr Asn
                165                 170                 175
Glu His Phe Arg Glu Leu Met Ser Ser Thr Ser Gln Gln Glu Lys Gln
            180                 185                 190
Ser Asp Asp Asp Asp Val Asp Lys Lys Ser Asn Glu Gly Glu Pro Leu
        195                 200                 205
Lys Asp Gln Ile Asp Lys Ala Arg Pro Ala Ala Ala Leu Met Ser Lys
    210                 215                 220
Glu Glu Leu Ala Thr Gly Ser Val Gly Trp Pro Val Trp Lys Ala Tyr
225                 230                 235                 240
Ile Thr Ala Ser Gly Ser Phe Phe Leu Asn Phe Ile Ala Phe Leu Val
                245                 250                 255
Leu Leu Ala Cys Leu Asn Gly Gly Leu Ile Met Thr Gly Leu Trp Val
            260                 265                 270
Ser Tyr Trp Thr Ser Asp Lys Phe Pro Asn Leu Thr Ala Gly Gln Tyr
        275                 280                 285
Met Gly Ile Tyr Ala Gly Ile Cys Ala Ala Gln Ala Leu Ala Leu Tyr
    290                 295                 300
Gly Phe Ala Leu His Val Thr His Cys Arg Ser Gly Leu
305                 310                 315
```

<210> 23049
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23049
His Gln Phe Pro Glu Val Phe Ile Cys Pro Tyr Lys Ile Val Lys Gly
1 5 10 15
Thr Asn Ser Val Asn Thr Ala Phe Ile His His Asn Asp Ser Val Ala
20 25 30
Pro Ala Lys Asp Met Lys Leu Val Gly Cys Gln Asp Thr Ala Phe Ile
35 40 45
Leu Glu Lys Thr Ala Asp Gly Phe Val His Asp Met Ser Ser Asp Met
50 55 60
Gly Ile Asn Gly
65

<210> 23050
<211> 246
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (239)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23050
His Ser Ala Arg Arg His Gly Ile Pro Arg Pro Asn Ser Thr Tyr Ser
1 5 10 15
Phe Val Ser Asp Met Gly Gly Asp Gly Arg Asn Leu Ser Pro Gly Ala
20 25 30
Ser Pro Tyr Leu His Ala Arg Thr Ser Pro Arg Asn Ser Ser Ser Pro
35 40 45
Asp Val Arg Pro Leu Ser Phe Val Asp Leu Leu Asn Thr Pro Tyr Pro
50 55 60
Gln Pro Gly Pro Thr Pro Gly Gln Leu Asp Asn Ser His Leu Lys Ser
65 70 75 80
Trp Val Gly Asn Asn Ala Ser Leu Leu Ser His Lys Gln Thr Phe Asp
85 90 95
Met Tyr Leu Ala Asn Val Lys Lys Thr Asp Asp Pro Ala Val Gln Tyr
100 105 110
Glu Phe Ala Val Phe Met Val Asn Ala Met Leu Glu Met Pro Pro Asp
115 120 125
Asp His Glu Ala Arg Lys Asp Ala Val Tyr Gly Gly Lys Ala Ala Gly
130 135 140
Ile Thr Arg His Ser Leu Leu Lys Glu Ala Lys Ser Ile Phe Gln Arg
145 150 155 160
Leu Ala Asp Arg Ser Tyr Pro Phe Ala Gln Tyr Tyr Leu Ala Asp Gly
165 170 175
Tyr Ala Ser Gly Leu Phe Ser Lys Gly Lys Glu Asp Tyr Asp Arg Ala
180 185 190
Phe Pro Leu Phe Leu Ala Ala Ser Lys His Gly His Val Glu Ala Cys
195 200 205
Tyr Arg Thr Ala Leu Cys Tyr Glu Phe Gly Trp Gly Thr Arg Val Glu

```
    210                 215                 220
Ala Ala Arg Ala Gln Gln Phe Tyr Arg Gln Ala Asp Ser Pro Xaa His
225                 230                 235                 240
Arg Glu Met Ala Ile Lys
                245
```

<210> 23051
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23051

```
Arg Pro Gln Asn Ile Ala Thr Ile Leu Xaa Ala Ser Glu Asn Gly Gly
1               5                   10                  15
Gly Glu Leu His Pro Gln Asp Phe Arg Pro Ser Asp Val Ala Ile Leu
            20                  25                  30
Ser Thr Phe Ala Ser Ser Pro Phe Glu Gly Ser Asp Pro Phe Pro Ala
        35                  40                  45
Leu Gly His Glu Val Gln Lys Phe Arg Ser Leu Gly Ile Cys Ser Leu
    50                  55                  60
Phe Phe
65
```

<210> 23052
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23052

```
Leu Pro Lys His Lys Pro Phe Pro Val Val Cys Gln Ser Leu Asp Pro
1               5                   10                  15
Leu Leu Gln Arg Pro Ala Thr Glu Leu Thr Tyr Leu Pro Ser Asn Phe
            20                  25                  30
Leu Glu Gln Val Val His Leu Leu Ser Ser Ser Val Lys Val Thr Leu
        35                  40                  45
Asn Lys His Ser Val Leu Arg Gln Ser Phe Asp Asn Cys Asn Asp Phe
    50                  55                  60
Leu Arg Arg Trp Pro Ala Glu Ile Asp Asp Ile Gly Lys Gly Glu Val
65                  70                  75                  80
His Val
```

<210> 23053
<211> 258
<212> PRT
<213> A.fumigatus

<400> 23053

```
Phe Ser Gln Phe Ile Ser Gln Asn Thr Glu Arg Leu Leu Ser Phe Ser
1               5                   10                  15
Gln Cys Ser Gly Trp Gln Gly Ser Ala Leu Ile Val Leu Pro Asp Phe
```

```
            20                  25                  30
Gln Arg Ala Trp Thr Gln Gln Lys Val Glu Asn Arg Asn Ala His Ile
        35                  40                  45
Thr Pro Gly Ser Arg Glu Gly Arg Lys Leu Ser Pro Tyr Arg Val His
    50                  55                  60
Met Glu His Gln Lys Ala Ile Leu Lys Ala Gln Leu Arg Leu Ala Gly
65                  70                  75                  80
Glu Leu Arg Arg Pro Val Ser Val His Ser Val Gln Ala His Gly Ala
                85                  90                  95
Val Phe Asp Val Phe Lys Glu Leu Trp Ser Gly His Glu Arg Arg Val
            100                 105                 110
Pro Ser Arg Arg Glu Arg Arg Arg Arg Leu Ser Val Glu Gly Ala His
        115                 120                 125
Ala Glu Ser Asp Ala Glu Asp Glu Gln Val Gln Lys Ser Leu Lys Arg
    130                 135                 140
Glu Gly Ser Pro Leu Pro Tyr Pro Pro Arg Ile Cys Met His Ser Tyr
145                 150                 155                 160
Ser Gly Pro Val Glu Gln Leu Lys Gln Phe Leu Asn Pro Ser Asn Pro
                165                 170                 175
Ser Asp Val Tyr Phe Ser Phe Ser Asn Val Ile Asn Phe Ser Gly Pro
            180                 185                 190
Ser Ser Gln Lys Val Ile Ala Val Val Lys Ala Leu Pro Glu Asp Arg
        195                 200                 205
Val Leu Ile Glu Ser Asp Leu His Thr Ala Gly Gln Gln Met Asp Asp
    210                 215                 220
Leu Leu Glu Glu Val Ala Arg Gln Ile Cys Glu Leu Arg Gly Trp Ser
225                 230                 235                 240
Leu Gln Glu Gly Val Gln Arg Leu Ala Asp Asn Trp Lys Arg Phe Val
                245                 250                 255
Phe Gly
```

<210> 23054
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23054

```
Arg Cys Gln Val Val Ala Val Tyr Ile Ala Gly Glu Ala Val Gly Ala
1               5                   10                  15
Leu Thr Gln Thr Ala Ile Gly Asp Arg Leu Gly Arg Leu Arg Phe Met
            20                  25                  30
Ala Leu Met Cys Val Val Val Thr Ile Gly Thr Val Ile Gln Thr Ala
        35                  40                  45
Ser Ile Asn Ile Gly Met Phe Leu Ala Gly Arg Ala Leu Ala Gly Tyr
    50                  55                  60
Ala Val Gly
65
```

<210> 23055
<211> 78
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23055
Glu Asp Phe Pro Met Ala Pro Arg Arg Val Leu Tyr Ser Leu Ser Tyr
1 5 10 15
Arg Gly Met Val Ala Thr Val Pro Ile Tyr Leu Ser Glu Ile Ser Ala
20 25 30
Pro Arg His Arg Gly Leu Ile Xaa Ser Ile Ser Gly Cys Gly Ile Ser
35 40 45
Phe Gly Thr Met Ala Ser Asn Trp Val Gly Phe Ala Cys Ser Phe Ala
50 55 60
Pro Tyr Gly Pro Val Gln Trp Arg Leu Pro Leu Gly Ile Gln
65 70 75

<210> 23056
<211> 71
<212> PRT
<213> A.fumigatus

<400> 23056
Gln Gly Gln Lys Asp Cys Gly Glu Arg Val Val Gly Asp Lys Pro Ser
1 5 10 15
Asp Phe Asn Arg Asn Ile Arg Ile Asn Gln Thr Thr Gln Lys Ala Val
20 25 30
Glu Asp Ile Ser Pro Val Trp Phe Leu Arg Gln Gly Lys Leu Gln Ala
35 40 45
Ile Phe Tyr Gln Phe Thr Asp Ser Met Ile Asn Asn Thr Val Asn Val
50 55 60
Tyr His Gly Ile Met His Gly
65 70

<210> 23057
<211> 287
<212> PRT
<213> A.fumigatus

<400> 23057
Leu Phe Ser Ser Leu Ala Glu Pro Cys Leu Phe Arg Leu Asn Leu Phe
1 5 10 15
Phe Thr Ile Gly Ser Ile Thr Ala Asn Val Ser Ala Leu Pro Val Gly
20 25 30
Thr Ile Leu Asp Arg Tyr Gly Ser Arg Leu Cys Gly Phe Ile Gly Ser
35 40 45
Ala Leu Leu Val Ala Gly Ser Val Leu Met Ser Leu Ser Phe Ser Arg
50 55 60
Pro Asp Phe Asp Gly Tyr Ile Ile Ala Asn Phe Phe Leu Ala Leu Gly
65 70 75 80
Gly Thr Phe Val Phe Val Pro Ser Phe Gln Ile Ala Asn Ala Phe Pro
85 90 95
Lys His Ala Gly Ile Ile Val Ala Leu Val Thr Gly Ala Phe Asp Ala
100 105 110
Ser Ala Ala Val Tyr Leu Phe Tyr Arg Ile Leu Tyr Glu Ser Asn Pro
115 120 125
Glu Thr Phe Thr Pro Gln Arg Phe Phe Leu Ala Tyr Val Ala Val Pro
130 135 140

```
Val Cys Leu Leu Leu Ala Leu Leu Thr Ile Met Pro Ala Gln Asp Tyr
145                 150                 155                 160
Gln Ser Ser His Gln Leu Glu Ile Lys Met Glu Gln Ala Lys Asp Ser
                165                 170                 175
Thr Arg Asp Ile His Glu Ser Asp Gln Glu Ile Glu Ser Asp Thr Glu
            180                 185                 190
Leu Arg Arg Val Arg Ser Gln Arg Ala Glu Glu Arg Met Asp Asp Met
        195                 200                 205
Arg Gln Ile Asp Arg Val Leu Gly Asp Ala Asp Glu Arg Arg His Arg
    210                 215                 220
Glu Glu Gln Glu Ala Glu Arg Gln Ala Thr Ser Val Val Trp Gly Val
225                 230                 235                 240
Leu His Gly Leu Pro Ala Arg Lys Gln Met Ala Thr Pro Trp Phe Ile
                245                 250                 255
Leu Ile Thr Leu Met Thr Val Leu Gln Met Leu Arg Met Asn Tyr Phe
            260                 265                 270
Ile Ala Thr Ile Arg Gly Leu His Pro Arg Ser Gln Asn Arg Arg
        275                 280                 285
```

<210> 23058
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23058

```
Ala His Ile Phe Asn Asn Tyr Asn Leu Phe Ile Ile Pro Leu Asn Asn
1               5                   10                  15
Tyr Thr Gly Ser Leu Thr Val Ile Tyr Tyr Ser Asn Asn Leu Arg Tyr
            20                  25                  30
Tyr Ile Glu Ser Tyr Cys Lys Ala Ser Phe Ile Lys Val Leu Asp Ile
        35                  40                  45
Ile Phe Ile Asp Thr Met Phe Leu Asn Ser Ser Ile Tyr Ser Phe Lys
    50                  55                  60
Pro Leu Phe Tyr Asn Leu
65                  70
```

<210> 23059
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23059

```
Lys Ser Asn Met Leu Leu Asn Val Gly Ile Asn Tyr Leu Met Gly Cys
1               5                   10                  15
Lys Lys Ile Pro Pro Ser Val Val Ile Arg Leu Ser Gly Arg Gly Ile
            20                  25                  30
Thr Phe Ser Glu Glu Arg Ile Ser Leu Ser Glu Arg Thr Gly His Tyr
        35                  40                  45
Leu Leu Val Val Gln Ile Asn Leu Asn Leu Glu His Pro Pro Ser Leu
    50                  55                  60
Gln Asp Ile Ser Trp Lys Asn Ile Pro
65                  70
```

<210> 23060
<211> 65
<212> PRT

<213> A.fumigatus

<400> 23060
Arg Ser Ser Ser Trp Gln Val Val Ile Ala Gln Pro Phe His Thr Ile
1 5 10 15
Ile Phe Gln Ala Thr Asn Phe Leu Asp Cys Val Ile Ala Trp Phe Leu
20 25 30
Ile Leu Thr Val Phe Pro Ser Phe Gly Ser Tyr Gly Lys Arg Pro Glu
35 40 45
Asn Ser Val Arg Arg Met Leu Ala Lys Ser Thr Thr Asn Gln Arg Leu
50 55 60
Gly
65

<210> 23061
<211> 218
<212> PRT
<213> A.fumigatus

<400> 23061
Gly Gly Ala Gly Gly Phe Ser Arg Leu Trp Arg Ile Ala Phe Lys Gly
1 5 10 15
Pro Leu Arg Gln Leu Ile Val Ser Leu Pro Ser Ala Pro Leu Val Ala
20 25 30
Leu Pro Leu Thr Leu Pro Ser Phe Gln Glu Val Gln Gly Leu Ser Ala
35 40 45
Leu Glu Ala Ser Ile Arg Ile Leu Pro Ser Leu Val Val Gly Val Leu
50 55 60
Leu Asn Leu Val Ile Gly Val Phe Val His Lys Val Pro Ala Phe Trp
65 70 75 80
Ile Ala Thr Val Thr Ser Leu Leu Cys Ala Gly Ser Pro Leu Leu Met
85 90 95
Ala Val Ile Gln Pro Ser Trp Pro Tyr Trp Gly Asn Ala Phe Val Ala
100 105 110
Gln Leu Leu Gln Ala Val Ser Phe Asn Ala Leu Tyr Thr Ile Gly Leu
115 120 125
Ile Ile Ile Thr Asn Ser Phe Pro Asp Asp Thr Gln Ala Leu Ala Gly
130 135 140
Ala Val Phe Asn Thr Ala Ala Gln Phe Gly Ser Ala Leu Gly Leu Ala
145 150 155 160
Ile Leu Gln Val Ile Ser Thr Val Val Thr Glu Glu Ser Ala Ala Asp
165 170 175
Gly Thr Gly Ala Leu Met Ala Gly Tyr Arg Ala Ser Phe Trp Thr Met
180 185 190
Phe Gly Phe Met Ile Leu Cys Thr Leu Leu Gly Tyr Phe Gly Leu Arg
195 200 205
Lys Ala Gly Lys Val Gly Leu Lys Arg Asp
210 215

<210> 23062
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23062
His Ser Pro Ala Tyr Asp Glu Ser His Leu Thr Xaa Tyr Ile Thr Met
1 5 10 15
Ser Gln Ile Phe Ser Ile Trp Val Val Pro Phe His Val Ser Pro Val
20 25 30
Arg Leu Thr Thr Val Ile Asn Leu Thr Thr Asp Ser Gly Val Gln Lys
35 40 45
Pro Ser Met Val Asn Gly Asn His Thr Leu Tyr Tyr Ile Thr Lys Gln
50 55 60
Glu Asp Leu Tyr Gln Val Ser Glu Trp Ile Lys Phe Leu Val Pro His
65 70 75 80
Val Gly Tyr Leu Phe Val Leu Ala Phe Gln Ser Phe Ala Thr Leu Phe
85 90 95
Cys Leu Leu Gly Val Val Ile Leu Tyr Pro Ile Met Trp Leu Glu Glu
100 105 110
Arg Arg Val Ile Pro Tyr Lys Ile Leu Arg Lys Gly Asn Leu Val Tyr
115 120 125
Asn Ile Glu Arg Lys Ile Pro Glu Ile Lys Lys Glu
130 135 140

<210> 23063
<211> 290
<212> PRT
<213> A.fumigatus

<400> 23063
Arg Gln Ile Phe Asp Glu Ser Gly Ser Leu Arg Arg Leu Asp Thr Val
1 5 10 15
Gly Gly Thr Ser Ile Ser Ser Val Met Ala Gly Leu Ala Phe Glu Glu
20 25 30
Leu Val Ile Ser Val Ala Asp Ala Leu Asp Gln Leu Leu Ser Gln Ile
35 40 45
Val Ala Leu Leu Glu Ala Arg Pro Lys Pro Arg Leu Trp Phe Pro Thr
50 55 60
Ser Ile Glu Tyr Ala Val Gly Trp Val Leu Arg Arg Asp Ala Arg Thr
65 70 75 80
Pro Val Ala Gly Gln Ser Ser Asp Pro Asp Pro Asp Asp His Ala Val
85 90 95
Gln Thr Asp Glu Ala Gln Gln Leu Phe Arg Arg Ile Ser Arg Gly Tyr
100 105 110
Arg Val Lys Gln Arg Ser Gly Leu Gly Arg Val Val Leu Gly Val Tyr
115 120 125
His Trp Phe Ile Ser Ala Glu Gly Leu Phe Ala Leu Arg Met Val Ile
130 135 140
Leu Thr Ile Ala Leu Ala Val Pro Ala Val Ile Pro Ser Ser Ser Gly
145 150 155 160
Phe Tyr Tyr Arg Glu Lys Gly Leu Trp Gly Leu Ile Met Gly Gln Thr
165 170 175
Thr Leu Leu Val Tyr Met Ser Asp Phe Met Phe Ser Leu Ile Cys Arg
180 185 190
Ala Val Gly Thr Ile Ile Gly Gly Ala Val Gly Leu Ala Ala Trp Tyr
195 200 205
Ile Gly Ser Gly His Gly Pro Gly Asn Pro Tyr Gly Leu Ala Ala Ile

```
    210                 215                 220
Ser Val Pro Val Ile Val Ile Phe Leu Trp Gly Arg Leu Phe Leu Ser
225                 230                 235                 240
Pro Ala Met Leu Pro Ala Thr Gly Met Ser Ala Ala Thr Leu Phe Leu
                245                 250                 255
Ile Ile Arg Tyr Ser Phe Ala Glu Tyr Tyr Ala Leu Cys Pro Pro Ser
            260                 265                 270
Pro Ser Pro Ser Pro Phe Gly Leu Phe Cys Phe Leu Ile Pro Asp His
        275                 280                 285
Arg Thr
    290
```

<210> 23064
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23064

```
Trp Thr Glu Ala Asn Leu Phe Pro Arg Val Leu Val Arg Ala Ala Trp
1               5                   10                  15
Gly Ser His Ser Pro Ser Leu Asp Thr Asp Lys Ile Thr Asp Asn Lys
            20                  25                  30
Asp Phe Lys Lys Trp Ile Asn Asn Tyr Leu Gly Val Gly Glu Trp Val
        35                  40                  45
Met Asp Gln Ser Val Ala Val Leu Ser Ser Thr Ser Tyr Phe Glu Arg
    50                  55                  60
Lys Arg
65
```

<210> 23065
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23065

```
Ala Ala Thr Arg Ser Trp Arg Pro Lys Pro Lys Ser Ile Ala Asn Thr
1               5                   10                  15
Ala Lys Lys Leu Arg Asp Leu Phe Arg Cys Thr Val Ser Ala Arg Asn
            20                  25                  30
Gln Ser Ala Leu Thr Val Gln Asn Phe Trp Ile Trp Ile Arg His Glu
        35                  40                  45
Ile Thr Val Ser Ile Thr Asn Glu Ile Pro Cys Ile
    50                  55                  60
```

<210> 23066
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23066

```
Asn Leu Leu Ile Gln Leu Phe His Ser Pro Ala Pro Lys Asp Asp Thr
1               5                   10                  15
Leu Ser Ala Ser Ile Ile Val Ser Ser Tyr Glu Val Leu Ala Thr Gln
            20                  25                  30
Ala Gln Glu Tyr Arg Gln His Cys Glu Glu Ala Thr Arg Leu Val Gln
        35                  40                  45
```

```
Met Tyr Gly Ile Ser Ala Gln Ser Val Gly Ile Asp Arg Ala Lys Phe
    50                  55                  60
Leu Asp Leu Asp Ser Pro
65                  70
```

<210> 23067
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24),(31),(49),(60)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23067

```
Arg Ile Ala Ala Ser Phe His Pro Phe Val Thr Gly Ala Leu His Ile
1               5                   10                  15
Val Thr Pro Asp Trp Ile Thr Xaa Arg Ile Ile Ile Leu Leu Xaa Pro
            20                  25                  30
Leu Phe Leu Asn Val Thr Ser Tyr Ser Val Leu Gly Thr Gly Tyr Tyr
        35                  40                  45
Xaa Phe Trp Glu Trp Tyr Phe Ile Tyr Ser Ile Xaa Ile Leu Pro Asn
    50                  55                  60
```

<210> 23068
<211> 323
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (41),(42)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23068

```
Phe Pro Thr Asn Ala Phe Pro Arg Asn Pro Leu Val Thr Leu Leu Leu
1               5                   10                  15
Gly Phe Lys Pro Gly Phe Phe Thr Gln Gly Pro Asn Pro Gln Leu Ser
            20                  25                  30
Gly Lys Asp Val Ile Phe Val Trp Xaa Xaa Cys Arg Gly Pro Trp Asn
        35                  40                  45
Pro Asn Gly Ile Gly Cys Phe Trp Gly Ile Thr Pro Ser Leu His Ala
    50                  55                  60
Ile Met Gly His Asp Tyr Ala Gly Thr Val Val Ala Val Gly Asp Ser
65                  70                  75                  80
Val Arg Glu Leu Phe Lys Val Gly Asp Arg Val Cys Gly Leu Val Lys
                85                  90                  95
Gly Ala Asp Asn Thr Arg Arg Glu Ser Gly Thr Phe Ala Glu Tyr Ile
            100                 105                 110
Val Ala Lys Ala Ala Ile Gln Met Lys Ile Pro Asp Gly Val Ser Phe
        115                 120                 125
Glu Asp Ala Ala Thr Val Gly Val Gly Ala Thr Thr Ala Gly Gln Cys
    130                 135                 140
Leu Phe Gly Pro Ser Cys Leu Lys Leu Gln Trp Pro Glu Ala Pro Asn
145                 150                 155                 160
```

```
Gln Ile Glu Asn Arg Asp Thr Ile Leu Val Tyr Gly Gly Ala Thr Ser
                165                 170                 175
Ala Gly Ser Trp Ile Ile Gln Phe Ala Lys Leu Tyr Ala His Phe Leu
            180                 185                 190
Ser Ser Asn Asp Ile Ser Leu Thr Val Asp Arg Ala Gly Phe Thr Val
        195                 200                 205
Leu Thr Cys Ser Pro Asn Asn Phe Asn Leu Val Arg Gln Tyr Gly Ala
    210                 215                 220
Asp Val Val Phe Asp Tyr His Asp Pro Val Cys Ala Arg Lys Ile Arg
225                 230                 235                 240
Glu His Thr Ser Asn Thr Leu Arg Val Val Cys Asp Thr Val Ala Thr
                245                 250                 255
Gln Glu Ser Val Gln Ile Cys Glu Ala Ala Ile Gly Asp Ala Gly Gly
            260                 265                 270
Leu Tyr His Ser Leu Leu Pro Val Gln Thr Thr Arg Ala Asp Val Gln
        275                 280                 285
Ala Thr Phe Ala Asn Cys Cys Thr Met Ile Gly Glu Thr Phe Glu Tyr
    290                 295                 300
Gly Pro Asp Arg Trp Tyr Ser Arg Ser Ser Pro Arg Arg Arg Arg Ser
305                 310                 315                 320
Ala Leu Val
```

<210> 23069
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23069

```
Leu Ile Phe Phe Ala Ala His Ser Ile Gln Ala Phe Thr Met Lys Arg
1               5                   10                  15
Ser Val Glu Thr Leu Xaa Ala Thr Val Ser Val Phe Tyr Ala Gln Thr
            20                  25                  30
Asp Ile Glu Lys Glu Pro Ser Leu Ser Ala Ile Glu Tyr Ala Ala Ala
        35                  40                  45
Ser Ile Gln Pro Tyr Ser Pro Val Ser Asn Val Val Gly Cys Cys Ile
    50                  55                  60
```

<210> 23070
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23070

```
Asp Leu Ile Ser Ala Ile Cys Ser Arg Phe Glu Phe Arg Thr Asn Leu
1               5                   10                  15
Leu His Ser Thr Asn Leu Tyr Ala Val Thr His Pro Ser Glu Pro Asn
            20                  25                  30
Tyr Cys Ala Ala Val Gly Gly Asp Thr Phe Gly Met Asp Asn Asp Asn
        35                  40                  45
Phe Asn Gln Ile Pro Ala Asn Val Phe Asn Gly Arg Gly Ser Ser
```

50 55 60

<210> 23071
<211> 222
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (54)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23071
Thr Pro Lys Pro Leu Leu Gly Lys Ser Ile Gln Lys Pro Phe Leu Asn
1 5 10 15
Pro Glu Phe Lys Val Phe Thr Tyr Ser Thr Lys Glu Thr Tyr Val Asn
20 25 30
Asp Tyr Val Gly Lys His Asn Pro Leu Val Leu Tyr Asp Ser Val Thr
35 40 45
Lys Asn Ser Thr Arg Xaa Arg Gln Ile Lys Asn Phe Thr Ser Phe Glu
50 55 60
Asp Asp Leu Ala Asn Lys Lys Leu Pro Gln Trp Ala Phe Ile Thr Pro
65 70 75 80
Asn Met Thr Asn Asp Ala His Asp Thr Asn Ile Thr Phe Gly Ala Lys
85 90 95
Trp Glu Arg Ser Trp Ile Ala Pro Leu Leu Asn Asn Ser Tyr Phe Met
100 105 110
Asn Asp Thr Leu Ile Leu Leu Thr Phe Asp Glu Asp Gly Thr Tyr Ser
115 120 125
Lys Ser Asn Lys Ile Phe Ser Val Leu Leu Gly Gly Ala Ile Pro Asp
130 135 140
Glu Leu Lys Gly Thr Gln Asp Asp Thr Phe Tyr Thr His Tyr Ser Val
145 150 155 160
Ile Ala Ser Val Ser Ala Asn Trp Gly Leu Pro Ser Leu Gly Arg Trp
165 170 175
Asp Cys Gly Ala Asn Ile Leu Glu Ile Val Ala Asn Lys Thr Gly Tyr
180 185 190
Val Asn Tyr Asp Val Asp Thr Thr Asn Leu Arg Leu Asn Glu Thr Tyr
195 200 205
Pro Gly Pro Met Ser Ala Gly Glu Tyr Ser Lys Val Phe Thr
210 215 220

<210> 23072
<211> 92
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(13),(14),(28),(30),(39),(43),(48),(59)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23072
Asn Lys Met Phe Asn Phe Pro Xaa Pro Thr Glu Asp Xaa Xaa Ile Phe
1 5 10 15
Phe His Leu Leu Gly Gly Arg Val Val Thr Ile Xaa Ile Xaa Leu Ala

```
            20                  25                  30
Tyr Leu Ser Leu Gln Ser Xaa Asn Ala Ile Xaa Ala Gly Ser Tyr Xaa
        35                  40                  45
Val Ser Thr Phe Ser Lys Gly Thr Arg Gly Xaa Phe Thr His Gly Thr
    50                  55                  60
Ser Thr Ser Val Pro Pro Thr His His Glu Thr Met Ile Gly Ser Gly
65                  70                  75                  80
Ile Ser Glu Gln Ser Asp Gln Phe Pro Ser Arg Thr
                85                  90
```

<210> 23073
<211> 83
<212> PRT
<213> A.fumigatus

<400> 23073

```
Lys Thr Tyr Val Thr Ser Tyr Arg Arg Gln Tyr His Leu Ala Ile Ile
1               5                   10                  15
Lys Gln Gly Thr Asp Leu Ile Phe Ser Gln Lys Lys Gly Gly Ser Ala
            20                  25                  30
Lys Lys Gln Ile Ala Gln Leu Gln Ala Gln Ala Ala His Asn Lys Ser
        35                  40                  45
Ala Glu Ala Lys Lys Lys Glu Ala Glu Lys Ala Arg Arg Glu Ala Glu
    50                  55                  60
Lys Lys Ala Ala Glu Ala Ala Lys Lys Gly Thr Leu Glu Leu Phe Lys
65                  70                  75                  80
Pro Val Gln
```

<210> 23074
<211> 360
<212> PRT
<213> A.fumigatus

<400> 23074

```
Lys Pro Lys Asp Ala Asp Phe Cys Ala Thr Phe Gly Val Thr Val Leu
1               5                   10                  15
Asn Leu Phe Gln Val Ala Trp Ala Leu Val Leu Arg Leu Tyr Thr Gly
            20                  25                  30
Gln Asp Asp Val Cys Phe Gly Tyr Leu Ala Ser Gly Arg Asp Ser Asn
        35                  40                  45
Val Ser Gly Ile Asp Asp Ile Ala Gly Pro Met Ile Asn Met Leu Val
    50                  55                  60
Cys Arg Leu Gln Pro Thr Arg Asp Lys Thr Pro Arg Glu Leu Leu Lys
65                  70                  75                  80
Gln Ala His Lys His Leu Thr Leu Ala Leu Ser His Gln His Val Pro
                85                  90                  95
Leu Ala Glu Val Gln Asn Arg Leu Arg Thr His Gly Thr Pro Leu Phe
            100                 105                 110
Asn Thr Leu Val Asn Leu Gln Lys Ser Asn Val Gly Gln Gly Ile Ser
        115                 120                 125
His Leu Thr Ile Ser Thr Ile Gly Ala Asn Asp Pro Asn Glu Phe Thr
    130                 135                 140
Ile Gly Leu Gln Ile Ala Asp Asn Gly Gln Ser Ile Asp Val Leu Phe
145                 150                 155                 160
Gly His Trp Leu Ser Arg Val Ser Val Asp Gln Ala Asp Leu Leu Ala
```

```
                165                 170                 175
Ser Leu Leu Ser Ser Thr Val Asn Asn Ile Met Ala Arg Pro Arg Ala
            180                 185                 190
Arg Leu Gly Thr Ile Asn Phe Cys Asn Gly Val His Ala Gln Lys Met
        195                 200                 205
Ala Glu Trp Asn Glu Gln Ala Arg Arg Pro Val Val Glu Ser Thr Leu
    210                 215                 220
His Ser Ile Ile Gln Asp Gln Ala Arg Gln Arg Pro Ser Thr Ile Ala
225                 230                 235                 240
Ile Ala Ser Thr Glu Ala Met Trp Thr Tyr Glu Glu Leu Glu Arg Ala
                245                 250                 255
Ala Asp Gln Thr Ala Arg Tyr Leu Leu Arg Gln Gly Val Gln Pro Gly
            260                 265                 270
Thr Ile Leu Pro Phe Trp Met Gly Lys Ser Ser Arg Ala Ile Arg Gly
        275                 280                 285
Tyr Ala Gly Arg Ser Leu Arg Leu Gly Leu Arg Leu Cys Arg Leu Leu
    290                 295                 300
Asp Pro Ala Ser Pro Pro Gln Thr Gly Trp Lys Leu Ile Leu Pro Pro
305                 310                 315                 320
Asn Leu Gly Pro Asn Ile Gly Asn Gln Trp Thr Pro Val Ser Met Glu
                325                 330                 335
Phe Leu Glu Pro Trp Lys Gly Thr Cys Gly Thr Tyr Leu Ala Phe Asp
            340                 345                 350
Pro Thr Trp Gly Gly Lys Pro Ser
        355                 360
```

<210> 23075
<211> 225
<212> PRT
<213> A.fumigatus

<400> 23075

```
Leu Thr Glu Ile Gly Lys Pro Tyr His Val Ala Leu Glu Glu Asp Leu
1               5                   10                  15
Thr Glu Ala Ile Thr Thr Ile Arg Tyr Tyr Ser Gly Trp Ala Asp Lys
            20                  25                  30
Ile Ala Gly Gln Thr Ile Ser Thr Thr Ser Ser Lys Phe Ala Tyr Thr
        35                  40                  45
Ile Arg Gln Pro Ile Gly Val Val Gly Gln Ile Ile Pro Trp Asn Tyr
    50                  55                  60
Pro Leu Ser Met Ala Thr Trp Lys Leu Gly Pro Ala Leu Ala Cys Gly
65                  70                  75                  80
Asn Thr Val Val Leu Lys Pro Ala Glu Gln Thr Pro Leu Ser Ala Leu
                85                  90                  95
Val Leu Ala Glu Leu Ile Thr Glu Ala Gly Phe Pro Pro Gly Val Val
            100                 105                 110
Asn Ile Val Asn Gly Tyr Gly Arg Glu Ala Gly Ala Ala Leu Ala Ser
        115                 120                 125
His Pro Leu Val Asp Lys Ile Ala Phe Thr Gly Ser Thr Gln Thr Ala
    130                 135                 140
Arg Glu Ile Met Lys Met Ala Ala Gly Thr Leu Lys Asp Ile Thr Leu
145                 150                 155                 160
Glu Thr Gly Gly Lys Ser Pro Leu Leu Val Phe Pro Asp Ala Asp Met
                165                 170                 175
Glu Gln Ala Val Lys Trp Ser His Phe Gly Ile Met Ser Asn Gln Gly
            180                 185                 190
```

```
Gln Ile Cys Thr Ala Thr Ser Arg Ile Tyr Val His Gln Asp Val Phe
        195                 200                 205
His Ser Phe Leu Glu Arg Ser Ser Pro Gly Ala Glu Glu Gly Arg Ser
    210                 215                 220
Thr
225
```

<210> 23076
<211> 160
<212> PRT
<213> A.fumigatus

<400> 23076

```
Leu Trp Met Pro Ser His Pro Val Val Lys Thr Pro Arg Ser Arg Gln
1               5                   10                  15
Cys Glu Leu Ser Ala Ala Thr Ala Pro Ile Pro Arg Leu Pro Thr Ala
            20                  25                  30
Asn Ile Cys Phe Gln Ala Pro Pro Leu Lys Ser Thr Pro Val Leu Thr
        35                  40                  45
Lys Thr Lys Glu Arg Ile Ser Asp Pro Val Ile Ala Ala Phe Ile Ala
    50                  55                  60
Gly Gly Val Ala Gly Ala Val Ser Arg Thr Ile Val Ser Pro Leu Glu
65                  70                  75                  80
Arg Leu Lys Ile Leu Leu Gln Ile Gln Thr Val Gly Arg Glu Glu Tyr
                85                  90                  95
Lys Leu Ser Ile Trp Arg Ala Leu Val Lys Ile Gly Lys Glu Glu Gly
            100                 105                 110
Trp Arg Gly Phe Met Arg Gly Asn Gly Thr Asn Cys Ile Arg Ile Ile
        115                 120                 125
Pro Tyr Ser Ala Val Gln Phe Gly Lys Leu Pro Leu Leu Pro Lys Gly
    130                 135                 140
Lys Ser Arg Gly Leu Leu Pro Arg Ser Ile Glu Leu Trp Pro Lys Arg
145                 150                 155                 160
```

<210> 23077
<211> 82
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23077

```
Ser Xaa Ala Gly Ala Xaa Gly Ser Lys Ile Arg Thr Gly Asn Leu Arg
1               5                   10                  15
Arg Trp Asp Tyr Gly Leu Phe Lys Ile Gly Leu Asn Ala Asp Ala Met
            20                  25                  30
Asp Lys Tyr Val Asp Asp Trp Ile Val Gly Ile Thr Asp Val Thr Glu
        35                  40                  45
Val Phe Lys Ala His Ser Lys Met Pro Gly Arg Ser Thr Gly Trp Lys
    50                  55                  60
Asn Pro Thr Arg Leu Val Pro Ala Gln Lys Val Tyr Pro Phe Val Pro
65                  70                  75                  80
Arg Ile
```

<210> 23078
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (60),(73)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23078
Gln Ile Ser Thr Thr Pro Tyr Thr Val Ala Ser Ile Leu Phe Arg Ala
1 5 10 15
Ser Pro Ile Asp Pro Ala Leu His Pro Ser Ser Pro Pro Ala Pro Gln
20 25 30
Thr His Asp Leu Ala Ser Tyr Asn Arg Ser Thr Ser Ile Asp Asp Gln
35 40 45
Ser Thr Thr Gln Gln Pro Gly Ala Asp Ala Ile Xaa Gly Ala Ser Pro
50 55 60
Lys Phe Phe Lys Ile Gly Arg Tyr Xaa Asp
65 70

<210> 23079
<211> 187
<212> PRT
<213> A.fumigatus

<400> 23079
Arg Gly Glu Asp Ser Arg Gly Glu Arg Val Thr Pro Thr Asn Ala Tyr
1 5 10 15
Leu Asp Trp Leu Ala Val Ser Leu Phe Arg Gln Trp Leu Val Asp Asn
20 25 30
Thr Thr Pro Pro Pro Ala Pro Ile Leu Lys Asn Ala Ser Thr Asn Gly
35 40 45
Leu Pro Ala Ala Gly Ala Asn Ile Ser Val Ser Ala Gly Asn Asn Thr
50 55 60
Ser Arg Ser His Arg Thr Gln Glu Thr Thr Ser Arg Ala Pro Pro Pro
65 70 75 80
Ser Pro Pro Leu Thr Pro Ala Gln Val Tyr Arg Leu Ile Gly Ser Pro
85 90 95
Ser Thr Gln Ala Tyr Leu Ser His Asp Glu Leu Lys Lys Phe Leu Lys
100 105 110
Val His Pro Thr Pro Ser Ala Asp Ser Leu Tyr Thr Arg Asp Val Leu
115 120 125
Lys Arg Phe Glu Arg Lys Met Asp Glu Ile Lys Arg Leu Ala Arg Glu
130 135 140
Ile Val Lys Pro Leu Leu Arg Asn Phe Leu Glu Leu Asp Leu Lys Gly
145 150 155 160
Thr Asp Leu Gly Asp Ser Ala Leu Gly Ala Leu Pro Tyr Leu Thr Cys
165 170 175
Thr Lys Val Glu Asp Glu Asp Ile Pro Trp Asp
180 185

<210> 23080

<211> 182
<212> PRT
<213> A.fumigatus

<400> 23080
Arg Phe Ala Val Phe Gly Ser Glu Ala Arg Pro Phe Asp Pro Glu Lys
1 5 10 15
Lys Pro Pro His Val Pro Ala Asp His Thr His Gln Trp Arg Val Phe
20 25 30
Val Lys Gly Val Asn Asp Glu Asp Ile Ser Tyr Trp Leu Lys Lys Val
35 40 45
Gln Phe Lys Leu His Glu Thr Tyr Ala Gln Asn Val Arg Thr Ile Glu
50 55 60
Gln Pro Pro Phe Glu Val Thr Glu Thr Gly Trp Gly Glu Phe Glu Ile
65 70 75 80
Gln Ile Lys Leu Tyr Phe Val Pro Glu Ser Gly Glu Lys Pro Gln Thr
85 90 95
Leu Trp His Ser Leu Lys Leu His Pro Phe Gly Pro Gly Ala Glu Val
100 105 110
Lys Lys Glu Arg Arg Glu Val Val Ile Ser Gln Asn Tyr Glu Glu Ile
115 120 125
Val Phe Asn Glu Pro Met Glu Pro Phe Tyr Asp Leu Leu Thr Gly Gly
130 135 140
Pro Thr Ser Gln Gln Thr Gln Lys Gly Lys Gly Gly Lys Asn Thr Lys
145 150 155 160
Gln Ala Ala Gln Gln Arg Gly Gly Arg Thr Ala Ser Ser Pro Arg Gly
165 170 175
Trp Lys Glu Pro Arg His
180

<210> 23081
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23081
Glu Ser Lys Asn Ile Thr Asp Ile Cys Asn Tyr Leu His Ile Thr Ile
1 5 10 15
Met Asp Lys Leu Leu Val Arg Thr Leu Thr Met Thr Arg Phe Glu Asn
20 25 30
Cys Ser Gln Ala Pro Phe Gln Leu Phe Asp Tyr Leu Ser Ser Phe Asp
35 40 45
Thr Ile Leu Leu Tyr Cys Ser Ile Phe Ile Ser Thr
50 55 60

<210> 23082
<211> 214
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23082

```
Glu Xaa Asp Pro Ser Ser Ile His Phe Lys Asp Gly Gln Leu Gln Gly
1               5                  10                  15
Thr Ile Leu Lys Ser Ile Ser Ala Asn Glu Lys Val Lys Leu Pro Leu
            20                  25                  30
Val Ile Ser Phe Leu Glu Ser Gly Ala Ala Arg Ile Val Val Asp Glu
        35                  40                  45
Glu Lys Arg Met Lys Gly Glu Ile Asp Leu Arg His Asn Ser Gln Val
    50                  55                  60
Arg Lys Glu Arg Tyr Asn Glu Ala Glu Gln Trp Ala Leu Val Gly Gly
65                  70                  75                  80
Leu Glu Ser Ser Lys Thr Ala Ala Val Asp Thr Glu Ser Glu Thr Gly
                85                  90                  95
Phe Thr Lys Val Leu Tyr Gly Pro Asp Asn Lys Phe Gln Ala Ile Ile
            100                 105                 110
Arg His Ala Pro Phe Ser Val Asp Phe Gln Arg Asp Gly Gln Ser His
        115                 120                 125
Val Arg Val Asn His Lys Gly Phe Leu Asn Val Glu His Trp Arg Pro
    130                 135                 140
Lys Val Asp Val Ala Glu Gly Asp Ser Val Gln Glu Lys Ser Ile Pro
145                 150                 155                 160
Gln Gln Asp Glu Ser Thr Trp Trp Glu Glu Thr Phe Gly Gly Asn Thr
                165                 170                 175
Asp Ser Lys Pro Lys Gly Pro Glu Ser Ile Gly Leu Asp Ile Thr Phe
            180                 185                 190
Pro Gly Tyr Ser His Val Phe Gly Ile Pro Glu His Ala Asp Ser Met
        195                 200                 205
Ser Leu Lys Glu Thr Arg
    210

<210> 23083
<211> 226
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (189)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23083
Ala Ala Pro Ile Arg Met Thr Pro Gln Gln Gln Ile Gly Thr His Phe
1               5                  10                  15
Leu Glu Glu Leu Gly Thr Gly Tyr Asn Ser Ser Asn Arg Met Val Leu
            20                  25                  30
Leu Leu His Thr Gln Asn Arg Thr Met Leu Thr Ala Ala Glu Ala Asn
        35                  40                  45
Glu Tyr Asn Thr Ser Thr Tyr Gln Glu Arg Gln Leu Thr Ala Glu Glu
    50                  55                  60
Glu Glu Glu Glu Glu Ile Gln Asn Ile Lys Gln Glu Met Arg Phe Ile
65                  70                  75                  80
Lys Gln Gly Asp Val Ala Ser Thr Arg Asn Ala Leu Arg Val Ala Ala
                85                  90                  95
Gln Ala Glu Glu Thr Gly Arg Glu Thr Leu Ala Arg Leu Gly Ala Gln
            100                 105                 110
Gly Glu Arg Ile His Asp Thr Glu Lys Ala Leu Asp Val Ala Ala Ile
        115                 120                 125
```

```
Glu Gly Arg Leu Ala Glu Lys Lys Ala Lys Glu Leu Lys Thr Leu Asn
    130                 135                 140
Lys Thr Ile Ser Pro Val Gln Leu Ser Asn Pro Phe Thr Thr Pro Arg
145                 150                 155                 160
Arg Gln Arg Asp Gln Asn Lys Lys Ile Phe Glu Thr His Leu Leu Lys
                165                 170                 175
Arg Ala Pro Arg Glu Gly Thr Pro Ile Lys Ala Phe Xaa Thr Thr Pro
            180                 185                 190
Arg Ile Glu Pro Pro Phe Pro Gly Arg Leu Lys Lys Asn Pro Val Asn
        195                 200                 205
Pro Phe Gly Lys Thr Gly Thr Asn Phe Pro Gly Pro Phe Pro Ile Tyr
    210                 215                 220
His Phe
225
```

<210> 23084
<211> 114
<212> PRT
<213> A.fumigatus

<400> 23084

```
Thr Ala Cys Trp Ile Arg Leu Asp Glu Arg Thr Leu Ser His Gln His
1               5                   10                  15
Pro Cys Thr Trp Arg His Pro Thr Pro His Thr His His Gly Tyr Ala
            20                  25                  30
Pro Asn Gln Tyr Gly Asn Gln Gly Gly Tyr Gly Ala Asp Arg Phe Gly
        35                  40                  45
Asn Ala Gly Gly Ala Ser Thr Ser Arg Tyr Gly Pro Gly Gly Tyr Gly
    50                  55                  60
Gly Leu Gly Ser Thr Asp Pro Asn Asp Pro Thr Ala Ala Asp Arg Asp
65                  70                  75                  80
Ala Leu Phe Gly Gly Ala Arg Asp Arg Val Gln Gln Gln Gln Gln Asn
                85                  90                  95
Gly Pro Pro Pro Pro Tyr Ser Glu Pro Asn Asn Ala Tyr Gly Gly Gly
            100                 105                 110
Ser Gln
```

<210> 23085
<211> 76
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3),(10),(12),(13),(14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23085

```
Lys Tyr Xaa Phe His Ile Tyr Tyr Ile Xaa Ile Xaa Xaa Xaa Asn Thr
1               5                   10                  15
Pro Pro Leu Ala Pro Phe Cys Val Ser Leu Arg Phe Leu Pro Phe Ile
            20                  25                  30
Phe Arg Met Thr Leu Val Thr Phe Gly Ile Ile Ile Gln Gly Ile Met
        35                  40                  45
Ala Lys Glu Arg Ala Pro Leu Ile Ile Ser Thr Ser Tyr Val Gln Thr
```

```
    50                  55                  60
Arg Thr Gly Arg Phe His His Leu Glu Leu His Gln
65                  70                  75

<210> 23086
<211> 143
<212> PRT
<213> A.fumigatus

<400> 23086
Val Arg Cys Gly Ala Cys Thr Asp Ser Gly Arg Val Arg Glu Cys Gln
1               5                   10                  15
Ala Val Tyr Leu Val Ala His Ser Cys Leu Ser Ile Asp Ser Trp Arg
            20                  25                  30
Ser Thr Asn Ile Pro Phe Pro Arg Phe Leu Arg Val Leu Leu Val Ala
        35                  40                  45
Leu Ser Leu Phe Leu Asn Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser
    50                  55                  60
Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser
65                  70                  75                  80
Phe Ser Leu Ser Phe Ser Leu Ser Phe Val Ser Phe Phe Ser Thr Asn
                85                  90                  95
Lys Leu Leu Gln Ser Cys Cys Leu Ser Ala Leu Glu Ser Pro Val Pro
            100                 105                 110
Leu Tyr Ile Pro Val Pro Asp Pro Phe Val Gln Arg Ser Val Leu Ser
        115                 120                 125
Ser Trp Arg Pro Leu Leu Pro Ala Cys Gln Ala Gly His Cys Pro
    130                 135                 140

<210> 23087
<211> 209
<212> PRT
<213> A.fumigatus

<400> 23087
Thr Ser Leu Ser Phe Phe Leu Ser Phe Phe Leu Ser Phe Tyr Leu Ser
1               5                   10                  15
Phe Phe Leu Ser Phe Phe Leu Ser Phe Tyr Leu Ser Leu Ser Leu Ser
            20                  25                  30
Leu Phe Leu Leu Phe Arg Ser Phe Leu Pro Thr Ser Ser Tyr Asn Leu
        35                  40                  45
Val Val Cys Pro Leu Trp Ser Pro Pro Tyr Leu Cys Thr Tyr Leu Phe
    50                  55                  60
Leu Thr Arg Leu Ser Asn Val Leu Ser Ser His Pro Gly Ala Pro Phe
65                  70                  75                  80
Cys Pro His Val Arg Gln Ala Thr Val Pro Glu Cys Ile His Tyr Cys
                85                  90                  95
Pro Asp Gly Phe Pro Tyr Pro Leu Gly Tyr Glu Arg Asn Phe Pro Cys
            100                 105                 110
Ser His Arg Cys Phe Val Val Glu Asn Glu Pro Pro Leu Leu Pro Asn
        115                 120                 125
Asp Ala Thr Val Phe Leu Leu Trp Val Pro Ser Leu Asp Asn Ala Phe
    130                 135                 140
Trp Gln Ser Pro Leu Trp Leu Thr Asn His Glu Cys Leu His Cys His
145                 150                 155                 160
Pro Leu Val Thr Ala Gly Leu Pro Thr Ser Gly Val Trp Ile Leu Glu
```

```
                165                 170                 175
Ser Ser Pro Pro Leu Phe Gly Gln Phe Pro Pro Asn Pro Leu Phe Ile
            180                 185                 190
Cys Pro Gly Cys Leu Gly Trp Val Ala Phe Leu Pro Pro Leu Ser Ser
        195                 200                 205
Arg
```

<210> 23088
<211> 179
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (48)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23088

```
Ser Pro Val Asn Ile Thr Asn Ala Gln Val Pro Asp Pro Ser Trp Glu
1               5                   10                  15
Trp Ala Trp Pro Ser Trp Tyr Val Asp Met Ser Gly Asp Val Asp Asp
            20                  25                  30
Gln Gly Trp Gln Tyr Ser Phe Ser Phe Ser Ser Lys Ala Trp His Xaa
        35                  40                  45
Thr His Pro Trp Phe His Ser Phe Val Arg Arg Arg Arg Trp Val Arg
    50                  55                  60
Leu Arg Val Lys Arg Thr Leu Glu Lys Thr Arg Arg Gly Arg Ser Gly
65                  70                  75                  80
Phe Glu Met Ala His Met Leu Asn Glu Asp Tyr Phe Thr Ile His Ser
                85                  90                  95
Pro Arg Lys Gln Ser Arg Ala Thr Ser Ser Ile Ala Val Ser Gly Asn
            100                 105                 110
Leu Ser Arg Thr Thr Thr Gly Val Glu Glu Glu Ala Leu Leu Glu Glu
        115                 120                 125
Ile Gly Asn Ile Pro Thr Leu Met Tyr Ala Leu Lys Ala Ala Ile Val
    130                 135                 140
Asp Arg Glu Lys Ile Asn Val Leu Lys Arg Phe Ile Glu Asp Gly Gly
145                 150                 155                 160
Glu Glu Leu His Tyr Leu Asp Ser Lys Val Ser Gln Ser Leu Val Ser
                165                 170                 175
Arg Cys Gln
```

<210> 23089
<211> 250
<212> PRT
<213> A.fumigatus

<400> 23089

```
Arg Arg Arg Asp Lys Val Ala Gly Glu Lys Glu Gln Arg Gly Val Glu
1               5                   10                  15
Glu Asp Ala Lys Lys Glu Asn Val Ser Ile Glu Gly Lys Ser Asp His
            20                  25                  30
Thr Glu Asp Pro Ser Pro Ile Pro Val Asn Gly Gly Gly Ser Ser Asp
        35                  40                  45
```

```
Thr Lys Ser Phe Ala Ser Asn Gly Gly Asn Glu Asp Gly Gly Arg Lys
    50                  55                  60
Gly Lys Lys Gly Ser Gly Asp Arg Ala Leu Gln Lys Pro Ser Val Pro
65                  70                  75                  80
Glu Phe Tyr Pro Gln Val Met Ala Ile Pro Ile Ala Lys Arg Pro Leu
                85                  90                  95
Phe Pro Gly Phe Tyr Lys Ala Ile Thr Ile Arg Asp Pro Asn Val Ala
            100                 105                 110
Thr Ala Ile Gln Glu Met Met Lys Arg Gly Gln Pro Tyr Val Gly Ala
        115                 120                 125
Phe Leu Phe Lys Asp Glu Asn Ala Asp Gly Asp Val Ile Glu Asn Leu
    130                 135                 140
Asp Asp Val Tyr Asp Val Gly Val Phe Ala Gln Ile Thr Ala Ala Tyr
145                 150                 155                 160
Pro Leu Arg Gly Glu Ala Ser Gly Val Thr Ala Val Leu Tyr Pro His
                165                 170                 175
Arg Arg Ile Lys Ile Ser Ser Leu Leu Pro Pro Gly Glu Gln Ser Lys
            180                 185                 190
Ala Gly Asn Thr Glu Asp Lys Ala Pro Glu Lys Lys Gly Asp Val Val
        195                 200                 205
Ala Ser Phe Glu Glu Gly Val Ala Glu Pro Ala Pro Lys Asp Leu Tyr
    210                 215                 220
Glu Pro Thr Ser Phe Leu Arg Lys Tyr Pro Val Arg Leu Ser Ser Ser
225                 230                 235                 240
Ser Gly Ser Asp Arg Ile Arg Glu Asn Trp
                245                 250
```

<210> 23090
<211> 167
<212> PRT
<213> A.fumigatus

<400> 23090

```
Ser Phe Ala Leu Arg Ser Thr Asn Glu Pro Ile Ser Phe Thr Leu Ser
1               5                   10                  15
Phe Cys Met Phe Gly Pro Glu Arg Arg Thr Asn Lys Ala Asp Phe Lys
            20                  25                  30
Leu Thr Lys Ser Pro Ser Pro Cys Leu Thr Ser Ser Leu Phe Gly Leu
        35                  40                  45
Phe Asn Phe Val Phe Ser Ile Leu Cys Arg Asn Ile Leu Pro Met Asn
    50                  55                  60
Asn Leu Ser Thr Ile Val Val Ser Leu Cys Cys Ala Phe Val Phe Leu
65                  70                  75                  80
Tyr Ala Leu Gly Ala Leu Trp Ile Tyr Gly Arg Thr Phe Ala Asp Arg
                85                  90                  95
Thr Arg Ile Gln Tyr Gly Ser Ala Ser Pro Thr Leu Leu Thr Glu Glu
            100                 105                 110
Glu Met Gln Arg Gln Gln Leu Leu Arg Leu Leu Gln Gln Asn Gly Lys
        115                 120                 125
Lys Lys Arg Ser Ser Ala Lys Ala Val Gln Lys Thr Phe Lys Val Asp
    130                 135                 140
Val Pro Glu Val Val Ser Pro Gly Lys Gly Trp Asp Arg Tyr Met Pro
145                 150                 155                 160
Pro Arg Glu Glu Tyr Phe Ile
                165
```

<210> 23091
<211> 155
<212> PRT
<213> A.fumigatus

<400> 23091
Tyr His Val Ser Ser Ser Gly Ala Ala Val Leu Ser Ala Ser Pro Ile
1 5 10 15
Ala Lys Ala Leu Ala Met Gly Val Thr Ser His Asp Val Ile Tyr Gly
20 25 30
Gly Asp Val Ser Ile Asp Ala Thr Ala Asn Gly Asn Gly Gly Phe Ile
35 40 45
Phe Arg Val Ser Asn Ala Thr Ala Gly Pro Asp Ser Tyr Asn Gly Tyr
50 55 60
Tyr Ala Gly Ile Gly Val Gly Tyr Val Val Leu Gly Phe Ala Asp Arg
65 70 75 80
Gln Trp Asn Glu Leu Lys Arg Ala Pro Ala Ala Asp Ile Thr Ala Gly
85 90 95
Gln Thr Tyr Arg Leu Leu Ile Arg Thr Arg Gly Asp Ser Ile Ala Val
100 105 110
Tyr Val Asp Asp Leu Asn Thr Pro Arg Met Val Val Gln Asp Gly Arg
115 120 125
Tyr Ser Ala Gly Leu Ser Gly Leu Arg Ala Tyr Met Thr Thr Met Ser
130 135 140
Val Ser Asn Val Arg Ile Tyr His Gly Leu Cys
145 150 155

<210> 23092
<211> 96
<212> PRT
<213> A.fumigatus

<400> 23092
Arg Ile Ser Gly Gln Phe Glu Glu Thr Gln Gly Arg His Trp Lys Gly
1 5 10 15
Gly Leu Glu Ser Arg Ala Thr Asn Gly Leu Ile Leu Thr Arg Leu Ala
20 25 30
Arg Thr Thr Gln Asn Ala Thr Asp Pro Pro Ile Ser Thr Ser Leu Arg
35 40 45
Arg Pro Thr Ser Leu Val Leu Gly Val Leu Leu Ser Thr Ser Pro Gly
50 55 60
Leu Leu Asn Ala Arg Phe Gly Ala Thr Thr Arg Leu Val Phe Ser Ser
65 70 75 80
Glu Thr Gly Trp Ile Ser Leu His Ala Gly Gly Trp Lys Val Gln Ser
85 90 95

<210> 23093
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23093
Ser Thr Pro Arg Ile Val Glu Tyr Thr Arg Pro Thr Tyr Tyr Pro Ser
1 5 10 15
Ala Ser Val Gln Lys Gln Gln Asp Val Pro Gly Gly Ile Pro Arg Arg
20 25 30

```
Glu Tyr Thr Met Asp Pro Arg Pro Arg Asn Cys Phe Lys Thr Asp Gly
        35                  40                  45
Pro Ser Arg Met Leu Leu Ile Thr Val Phe Gly Leu Thr Arg Arg Asn
    50                  55                  60
Ser Leu Phe
65
```

<210> 23094
<211> 194
<212> PRT
<213> A.fumigatus

<400> 23094

```
Leu Cys Phe Ser Tyr Leu Trp His Val Phe Pro Val Val Pro Gln Trp
1               5                   10                  15
Tyr Ser Ser Pro Asp Arg Tyr Gly Ser Leu Val Ala Glu Glu Pro Val
            20                  25                  30
Leu Ala Met Gly Leu Ile Met Thr Ala Ser Arg Tyr His Pro Leu Ser
        35                  40                  45
Gly Phe Asn Gly His Ala Arg Ser Glu Arg Ile His Trp Arg Thr Trp
    50                  55                  60
Pro Trp Phe Gln Arg Val Leu Gln Ser Ser Met Trp Gly Ser Pro Val
65                  70                  75                  80
Met Arg Lys Leu Gly Ser Val Ala Ala Leu Leu Leu Leu Ile Glu Trp
                85                  90                  95
His Pro Arg Ala Ile Asn Ser Pro Glu Asp Leu Val Gly Asp Cys Ser
            100                 105                 110
Glu Ile Glu Leu Phe Asp Pro Gln Gly Gln Pro Tyr Glu Ala Asp Thr
        115                 120                 125
Arg Glu Ser Ala Glu His Asp Gln Leu Pro Glu Ser Ser Ser Ile Pro
    130                 135                 140
Asp Arg Leu Ile Thr Leu Ala Pro Ala Tyr Arg Ser Asn Lys Met Ser
145                 150                 155                 160
Gln Val Val Phe Pro Gly Glu Ser Thr Pro Trp Thr Leu Val Pro Val
                165                 170                 175
Ile Ala Leu Arg Leu Thr Asp Leu Gln Gly Cys Ser Leu Ser Pro Phe
            180                 185                 190
Leu Ala
```

<210> 23095
<211> 139
<212> PRT
<213> A.fumigatus

<400> 23095

```
Tyr Cys Ile Leu His Ser Trp Ser Gly Ile Arg Phe His Ser Phe Asn
1               5                   10                  15
Leu Leu Ser Ser Tyr Phe His Val Thr Met Arg Ser Ile His Leu Leu
            20                  25                  30
Ser Phe Val Phe Gly Ile Ser Pro Val Leu Ala Trp Thr Glu Leu His
        35                  40                  45
His Ala Pro Phe Met Asn Lys Asn Ile Asp Ala Ile Val Ala Pro Gly
    50                  55                  60
Thr Tyr Thr Ser His Met His Thr Phe Phe Gly Ser Asp Ala Ile Thr
65                  70                  75                  80
```

```
Asn Val Leu Pro Thr Ser Ala Glu Leu Gln Arg Gly Cys Tyr Ser Gly
                85                  90                  95
Asp Asn Pro Asn Asp Leu Ser Val Tyr Cys Met Leu His Ile Thr Pro
            100                 105                 110
Ile Leu Pro Val Ser His Ser Ile Phe Ser Asn Ser Gly Val Pro Ser
        115                 120                 125
Leu His His Gly Ala Gly Arg Ala Arg Gln Leu
    130                 135
```

<210> 23096
<211> 168
<212> PRT
<213> A.fumigatus

<400> 23096

```
His Glu Cys Ile Asn Asp Lys Asp Trp Ser Phe Ser Leu Pro Ser Asp
1               5                   10                  15
Ala Ala Gln Ser Phe Thr Ser Leu Thr Gly Gln Glu Ala Asp Leu Leu
            20                  25                  30
Ala Tyr Leu Leu Ser Pro Lys Pro Gly Pro Tyr Ala Ser Leu Leu Leu
        35                  40                  45
Ala Tyr Arg Asp Ser Ser Pro Asn His Arg Pro Tyr Leu Asn Lys Leu
    50                  55                  60
Asp Ser Leu Tyr Leu Glu Lys Lys Glu Glu Leu Pro His Ser Ala Phe
65                  70                  75                  80
Ile Thr Ser Cys Tyr Ala Ala Ala His Pro Gly Pro Tyr Gly Ala Tyr
                85                  90                  95
Leu Phe Asp Ala Ile Glu Arg Gln Arg Val Phe Val Asp Lys Met Val
            100                 105                 110
Gly Tyr Leu Trp Ile Arg Ser Pro Gly Val His Gly Thr Leu Ser Arg
        115                 120                 125
Ala Ile Thr Arg Tyr Glu Tyr Phe Leu Gln Leu Phe Lys Leu Arg Pro
    130                 135                 140
Gly Thr Thr Leu Val Pro Thr Leu Asp Ile Asp Leu Val Trp His Thr
145                 150                 155                 160
His Gln Cys Ser Ala Ser Met Tyr
                165
```

<210> 23097
<211> 126
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (120)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23097

```
Ile Arg Met Arg Cys Ser Phe Arg Pro Gly Gly Glu Asp Val Leu Thr
1               5                   10                  15
Asp Val Trp Leu Ser Gly Pro Thr Asp Thr Gly Met Gln Arg Leu Ala
            20                  25                  30
Leu Ser Glu Glu Asp Lys Ser Val Arg Asp Trp Phe Ile Asp Thr Ala
        35                  40                  45
Lys Ala Leu Lys Cys Asn Ile Thr Ile Asp Glu Met Gly Asn Ile Phe
```

```
    50                  55                  60
Ala Val Arg Pro Gly Arg Arg Lys Asp Val Pro Ala Thr Phe Ile Gly
65                  70                  75                  80
Ser His Leu Asp Thr Gln Pro Thr Gly Gly Arg Tyr Asp Gly Ile Leu
                85                  90                  95
Gly Val Leu Ala Gly Ile Glu Ala Leu Lys Val Ile Asp Glu Met Gly
            100                 105                 110
Ile Glu Thr Glu Gly Gly Ile Xaa Val Val Asn Trp Thr Lys
        115                 120                 125
```

<210> 23098
<211> 312
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (65),(236)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23098

```
His Phe His Ser Glu Glu Gly Ala Arg Phe Pro Val Ser Met Ile Ser
1               5                   10                  15
Ser Gly Val Trp Ala Glu Cys Ile Pro Leu Ser Arg Ala His Asp Leu
            20                  25                  30
Lys Glu Val Pro Thr Val Ala Ser Leu Pro Thr Ala Ala Ser Ser Pro
        35                  40                  45
Glu Thr Met Lys Ser Ala Leu Lys Lys Ile Asn Tyr Leu Gly Ser Val
    50                  55                  60
Xaa Cys Ser Tyr Lys Glu Thr Pro Met Ala Ala His Phe Glu Leu His
65                  70                  75                  80
Ile Glu Gln Gly Pro His Leu Glu Ser Ala Asn Gln Arg Val Gly Val
                85                  90                  95
Val Thr Ala Val Gln Ala Tyr Arg Trp Tyr Arg Leu Asn Val Ile Gly
            100                 105                 110
Arg Asp Thr His Thr Gly Thr Thr Ala Phe Gln His Arg Ala Asp Ala
        115                 120                 125
Leu Tyr Ala Phe Ala Arg Met Met Val Arg Ala Arg Glu Val Ala Ser
    130                 135                 140
Ser His Gly Cys Leu Ala Ser Val Gly Ile Ile Glu Ala Lys Pro Gly
145                 150                 155                 160
Ser Val Asn Thr Val Pro Gly Leu Val Ser Phe Ser Leu Asp Ile Arg
                165                 170                 175
Gly Pro Glu Thr Glu Leu Val Ala Val Val Glu Ala Glu Leu Arg Lys
            180                 185                 190
Asp Phe Asp Ala Ile Ala Ala Glu Glu Gly Lys Gly Ile Gly Lys Pro
        195                 200                 205
Cys Arg Val Glu Trp Thr Met Asp Phe Asp Ser Pro Ala Val Lys Phe
    210                 215                 220
His Pro Asp Cys Ile Glu Cys Val Gln Glu Ser Xaa Glu Ala Val Val
225                 230                 235                 240
Ala Asp Ala Gly Val Ser Asp Pro Lys Ser Leu Val Arg Asp Ile Met
                245                 250                 255
Ser Gly Ala Arg His Asp Ser Val Phe His Pro Lys Arg Val Pro Pro
            260                 265                 270
Asn Met Ile Phe Val Pro Cys Lys Asp Gly Leu Ser His His Pro Arg
```

```
        275                 280                 285
Lys Ile Leu Ala Leu Trp Asn Thr Gly Ala Thr Arg Ala Ser Ile His
    290                 295                 300
Ser Gly Arg Gln Tyr Ser Gln Tyr
305                 310
```

<210> 23099
<211> 207
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23099

```
Val Gly Gln Ser Gln Arg Leu Val Asp Leu Gly Gly Xaa Leu Leu Ala
1               5                   10                  15
Arg Arg Ser Ile Arg Pro Glu Met Arg Ser Asp Gly Tyr Arg Ile Ile
            20                  25                  30
Met Lys Pro Tyr Leu His Lys Ser Thr Ser Ser Ser Arg Phe Ile Ser
        35                  40                  45
Thr Ser Tyr Ser Ile Ile Asp Val Thr Leu Thr Met Thr His Leu Arg
    50                  55                  60
Arg Ile His His Gln Gln Gly Ser His Thr Phe His Asp His Gln Ala
65                  70                  75                  80
Val Tyr Met Asp Glu Ile Ser Arg Asn Thr Thr Leu Thr Leu Thr Arg
                85                  90                  95
Asn His His Leu Asp Ile Ile Leu Gln Thr Asn Ile Gln Gln Ile Pro
            100                 105                 110
Ser Lys Met Ala Pro Tyr Lys Thr Glu Glu Glu Ser Ile Arg Pro Phe
        115                 120                 125
Ser Glu Thr Lys Ser Asp Phe Val Glu Lys Tyr Val Leu Arg Pro Val
    130                 135                 140
Gly Lys Pro Leu Thr Lys Glu Tyr Arg Val Tyr Phe Asn Leu Asn Asp
145                 150                 155                 160
Lys Leu Leu Ser Pro Trp His Asp Leu Ala Leu Tyr Pro Gly Ser Asn
                165                 170                 175
Arg Glu Pro Val Val His Met Val Val Glu Val Pro Arg Trp Trp Ser
            180                 185                 190
Ala Lys Met Glu Val Ser Pro Leu Cys Val Leu Ile Asp Thr Gln
        195                 200                 205
```

<210> 23100
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (72)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23100

```
Arg His Gln Ile Ala Lys Asp Glu Tyr Leu His Pro Leu Lys Gln Asn
```

```
1               5                   10                  15
Ile Gln Asp Gly Arg Leu Lys Tyr Val Pro Asn Ile Phe Pro His Lys
            20                  25                  30
Gly Tyr Pro Phe Asn Tyr Gly Met Leu Pro Gln Val Ser Ser Phe Ile
        35                  40                  45
Cys Leu Gln Leu Arg Asp Leu Gln Thr Asp Arg Asn Gln Ile Asp Ile
    50                  55                  60
Pro Arg Ser Arg Asp Pro Arg Xaa Pro His
65                  70
```

<210> 23101
<211> 247
<212> PRT
<213> A.fumigatus

<400> 23101

```
Thr Val Asp His Leu Arg Leu Val Ala Lys Phe Lys Pro Cys Pro Lys
1               5                   10                  15
Val Gln Val Cys Arg Val Ile Gly Arg Pro Gly Ile Glu Asp Leu Tyr
            20                  25                  30
Arg Leu Pro Ser Pro Arg Leu Lys Val Ser Phe His Pro Val Ser Pro
        35                  40                  45
Glu Ala Ser Ala Ala Asp Leu Asn Thr Asp Thr Leu Tyr Thr Leu Phe
    50                  55                  60
Arg Pro Tyr Gly Lys Ile Arg Asp Ile Glu Thr Gln Pro Ser Asp Gly
65                  70                  75                  80
Lys Val Thr Pro Arg Tyr Ala Tyr Val Glu Phe Ser Arg Pro Lys Tyr
                85                  90                  95
Ala Gly Met Ala Lys Asn Cys Met His Gly Phe Thr Ile Pro Glu Gln
            100                 105                 110
Glu Gly Gly Gly Lys Ser Gly Thr Arg Leu Lys Ile Lys Tyr Glu Arg
        115                 120                 125
Lys Ile Lys Leu Ser Met Ile Lys Asp Trp Leu Leu Asn His Pro Arg
    130                 135                 140
Ile Val Ile Pro Val Leu Ala Ala Leu Leu Ala Ala Ile Thr Val Thr
145                 150                 155                 160
Ile Phe Asp Pro Met Arg Thr Phe Phe Ile Glu Leu Lys Ile Lys Ser
                165                 170                 175
Thr Leu Gln Thr Glu Glu Asn Gly Val Met Gln Trp Ile Arg Lys Gln
            180                 185                 190
Val Asn Lys Ala Asn Ile Ile Tyr Phe Gly Arg Lys Gly Ala Asp Pro
        195                 200                 205
Arg Gly Leu Thr Ala Ile Trp Glu Asp Arg Pro Glu Asp Ile Thr Pro
    210                 215                 220
Leu Gln Ser Trp Leu Met Glu Asn Val Glu Asn Phe Ile His Ile His
225                 230                 235                 240
Gly Pro Arg Gly Ser Gly Lys
                245
```

<210> 23102
<211> 257
<212> PRT
<213> A.fumigatus

<400> 23102

```
Gly Pro Pro Ile Gln Gln Thr Ile Arg Asn Ile Trp Ala Asp Val Leu
```

```
1               5                   10                  15
Gly Arg Thr Ser Glu Ser Ile Gly Leu Gln Arg Ser Phe Phe Ala Leu
            20                  25                  30
Gly Gly Asp Ser Val Ala Ala Ile Arg Val Val Ala Gln Cys Arg Gln
        35                  40                  45
Ala Asn Leu Gln Leu Thr Leu Gln Asp Val Phe Gln Ala Arg Thr Ile
    50                  55                  60
Gln Ser Leu Ala Ala Cys Ala Thr Ala Ile Ile Glu Lys Pro Met Glu
65                  70                  75                  80
Thr Val Ser Ser Leu Leu Glu Pro Ser Gln Cys Glu Asn Pro Glu Ser
                85                  90                  95
Glu Leu Ala Lys Leu Asp Ser Glu Val Leu Ser Gly Leu Gly Gly Pro
            100                 105                 110
Glu Asn Ile Glu Glu Ile Tyr Pro Cys Ser Pro Met Gln Glu Gly Ile
        115                 120                 125
Leu Phe Ser Arg Ser Ser Ile Gly Gly Ser Tyr Asp Thr Arg Leu Val
    130                 135                 140
Val Glu Val Leu Pro Arg Asp Gly Gly Glu Val Asp Leu Asp Arg Leu
145                 150                 155                 160
Lys Asn Ala Trp Ala Ala Val Val Arg Arg His Pro Ile Leu Arg Thr
                165                 170                 175
Val Phe Ala Asp Arg Pro Ser Asp Asp Ser Ala Phe Ile Gln Val Thr
            180                 185                 190
Phe Arg Lys Tyr Arg Pro Val Ile Met Gly Cys Glu Thr Ser Glu Gln
        195                 200                 205
Ser Leu Asp Asp Met Ile Ala Met Pro Val Gln Pro Phe Asp Asp Arg
    210                 215                 220
Met Glu Pro Ser Pro Ser Leu His Arg Leu His Lys Leu Thr Thr Gly
225                 230                 235                 240
Leu Tyr Ser Ile Cys Leu Arg Phe Ile Lys Phe Leu Thr Glu Cys Cys
                245                 250                 255
Pro
```

<210> 23103
<211> 212
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (143)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23103

```
Ala Leu Ser Arg Arg Lys Trp Lys Asp Trp Gln Val Arg Tyr Ala Phe
1               5                   10                  15
Ser Arg Asp Pro Leu Asp Ser Lys Leu Ile Val Gln Thr Thr Ser Gln
            20                  25                  30
His Asp Tyr Asp Leu Leu Cys Ser Phe Gln Ala Tyr Leu Val Tyr Thr
        35                  40                  45
Ile Leu Met Tyr Phe Ser Pro Leu Gly Asn Val Ser Ala Val Thr Asp
    50                  55                  60
Lys Ile Met Met Thr Leu Met Glu Leu Ala Phe Arg Thr Ala Gln Asn
65                  70                  75                  80
Gly Leu Leu Cys Thr Ala Glu Thr Thr His Thr Arg Pro Asn Trp Glu
```

```
                85                  90                  95
Ser Trp Ile Val Val Ser Ala Lys Arg Arg Ala Ile Tyr Thr Met Tyr
            100                 105                 110
Leu Leu Thr Ser Val Tyr Asn Ser Asp Arg Gly Leu Pro Asn Phe Val
        115                 120                 125
Ala Asp Glu Met Lys Gly Val Tyr Val Pro Glu Ser Lys Val Xaa Trp
    130                 135                 140
Glu Val Thr Asp Arg Glu Val Trp Glu Lys Glu Tyr Asp Arg His Leu
145                 150                 155                 160
Leu Glu Trp Glu Asp Gly Met Leu Glu Ile Ser Glu Leu Trp Arg Ser
                165                 170                 175
Thr Glu Thr Gly Ser Thr Glu Arg Arg Glu Arg Ile Gly Arg Trp Val
            180                 185                 190
Arg Gly Val Asp Glu Phe Gly Met Met Leu Phe Ala Val Cys Ala His
        195                 200                 205
Ile His Gly Cys
    210
```

<210> 23104
<211> 90
<212> PRT
<213> A.fumigatus

```
<400> 23104
Cys Asn His Ala Gly Asn His Pro Leu Ile Tyr Gly Ser Leu Gly Lys
1               5                   10                  15
Asp Pro Leu Met Ile Ile Ile Ile Ile Cys Val Met Thr Gly Val Ala
            20                  25                  30
Thr Phe Met Asn Leu Ile Lys Pro Asn Cys Asn Pro Ile Ser Phe Ser
        35                  40                  45
Val Ile Gly Val Leu Ile Tyr Phe Thr Val Phe Lys Leu Ser Ser Phe
    50                  55                  60
Ser Val Tyr Ile Ser Met Met Met Trp Ile Glu Asn Lys His Thr Gly
65                  70                  75                  80
Phe Ile Val Ser Thr Asp Arg Ile Ser Ile
                85                  90
```

<210> 23105
<211> 78
<212> PRT
<213> A.fumigatus

```
<400> 23105
Gly Cys Ser Ala Ala Ile Asp His Asp Ile Pro Ala Cys Pro Pro Ser
1               5                   10                  15
Ala Arg Asp Leu Thr Ser Thr Tyr Val Ala Ala Thr Ser Tyr Asn Ala
            20                  25                  30
Leu Lys Met Arg Arg Cys Leu Ser His Val Leu Cys Ala Pro Thr Leu
        35                  40                  45
Asp Val Asp Ser Ser Ala Ser Thr Arg Leu Phe Met Trp Ala Lys Ser
    50                  55                  60
Val Ala Ser Asp Ile Ser Met Val Trp Gln Asn Arg Met Ile
65                  70                  75
```

<210> 23106
<211> 125

<212> PRT
<213> A.fumigatus

<400> 23106
Gly Gly Arg Leu Glu His Arg Thr Ser Arg Asp Pro His Pro Arg Tyr
1 5 10 15
Cys Ser Glu Arg Gln Leu Ser Ser Pro Ser Phe Arg Thr Glu Ile Phe
20 25 30
Gly Phe Phe Thr Glu Thr Thr Ala Phe Ser His Cys Thr Phe Val Leu
35 40 45
Ile Leu Ala Leu Asp Phe Gln Gln Ile Lys Ala Gly Glu Ser Phe Ser
50 55 60
Val Leu Pro Ala Ser Asn Gly Pro Gly Leu Pro Gly Ala Phe Pro Ser
65 70 75 80
Ala His Ser Arg Ala Ala Asn Val Glu Phe Lys Glu Lys Asn Tyr His
85 90 95
Gly Arg Met Val Tyr Met Leu Ile Ser Pro Arg Ser Ser Ile Lys Pro
100 105 110
Arg Gln Thr Ala Ser Pro Gln Gln Gly Met Met Gly Thr
115 120 125

<210> 23107
<211> 111
<212> PRT
<213> A.fumigatus

<400> 23107
Glu Tyr Ile Asp Ser Gly Tyr Arg Asp Thr Lys Ser Arg Ile Leu Tyr
1 5 10 15
Ser Leu Arg Ser Asn Ala Arg Tyr Lys Leu Ile Val Leu Cys Cys Ala
20 25 30
Phe Val Arg Leu Ile Tyr Ile Ser Ile Gln Asn Gly Phe Arg Phe Ala
35 40 45
Ser Ile Lys Ala Leu Val Ile Gly Leu Gly Leu Cys Met Gly Ser Cys
50 55 60
Ser Cys Asn Leu Ser Arg Met Val Leu Ala Leu Phe Pro Lys Leu Pro
65 70 75 80
Tyr Ala Ile Pro Gln Ser Pro Thr Phe Ile Gly Arg Leu Leu Pro Asn
85 90 95
Ser Asn Ala Tyr Ala Leu Leu Asn Gly Leu Thr Asn Leu Arg Met
100 105 110

<210> 23108
<211> 339
<212> PRT
<213> A.fumigatus

<400> 23108
His Cys Val Ser Phe Gln Ala Arg Arg Cys Lys Thr Arg Gly Trp Leu
1 5 10 15
Gln Ala Ser Leu Gly Pro Val Leu Val Trp Val Arg Leu Lys Phe Val
20 25 30
Asp Gly Gly Ser Ala Val Met Arg Ile Pro Cys Tyr Gly Arg Ser Met
35 40 45
Phe Pro Glu Glu Lys Ile Gln Arg Glu Val Ser Val Met Arg Phe Leu
50 55 60

```
Glu Phe His Thr Ser Ile Pro Val Pro His Ile Leu Arg Tyr Gly Met
65                  70                  75                  80
Ala Glu Glu Ser Pro Asp Glu Leu Gly Pro Phe Ile Ile Met Glu Tyr
                85                  90                  95
Ile Asp His Lys Tyr Asp Leu Val Asp Ala Leu Asn Thr Pro Gly Ile
            100                 105                 110
Pro Asp Asp Glu Arg Pro Met Leu Asp Pro Gln Ile Ala Glu Glu Arg
        115                 120                 125
Leu Ile Phe Ala Tyr Gly Gln Met Ala Gly Ile Met Leu Gln Leu Ser
    130                 135                 140
Lys His Thr Phe Ala Glu Ile Gly Cys Ile Ala Arg Ala Asn Glu Asp
145                 150                 155                 160
Asp Asp Phe Asp Asp Val Trp Val Val Lys His Arg Pro Leu Thr Ser
                165                 170                 175
Asn Met Asn Glu Leu Val Gln Val Gly Asn Phe Pro Pro His Leu Leu
            180                 185                 190
Pro Asp Gly Pro Phe Pro Thr Ser Ser Ser Tyr Tyr Arg Ala Leu Ala
        195                 200                 205
Asp Met His Leu Ala His Leu Val Thr Gln Arg Asn Asp Ala Val Ala
    210                 215                 220
Ser Pro Glu Asp Cys Arg Ala Asn Cys Ile Ala Arg Phe Leu Phe Arg
225                 230                 235                 240
Lys Leu Ala Arg Glu Gly Arg Phe Cys Lys Tyr His Glu Arg Gly Pro
                245                 250                 255
Phe Lys Leu Phe Cys Asp Asp Phe Arg Pro Ala Asn Val Leu Thr Asn
            260                 265                 270
Ala Glu Phe Gln Val Val Gly Ala Val Asp Trp Glu Tyr Thr Tyr Ala
        275                 280                 285
Ala Pro Leu Glu Phe Ala Tyr Ser Ala Pro Phe Trp Leu Leu Leu Asp
    290                 295                 300
Leu Pro Glu Tyr Trp Pro Gly Gly Leu Asp Asp Trp Thr Asn Val Tyr
305                 310                 315                 320
Glu Thr Arg Leu Gly Thr Leu Leu Gln Gly Thr Arg Arg Glu Ile Leu
                325                 330                 335
His Arg Gly
```

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<210> 23109
<211> 170
<212> PRT
<213> A.fumigatus

<400> 23109

```
Arg Thr Ile Ala Gly Val Lys Val Ile Gln Val Asp Glu Pro Ala Leu
1               5                   10                  15
Arg Glu Gly Leu Pro Leu Arg Ala Gly Lys Glu Arg Glu Asp Tyr Leu
            20                  25                  30
Thr Trp Ala Val Arg Ala Phe Arg Leu Ala Thr Ser Gly Val Ser Asp
        35                  40                  45
Gly Thr Gln Ile His Ser His Phe Cys Tyr Ser Glu Phe Gln Asp Phe
    50                  55                  60
Phe His Ala Ile Ala Ala Leu Asp Ala Asp Val Leu Ser Ile Glu Asn
65                  70                  75                  80
Ser Lys Ser Asp Ala Lys Leu Leu Lys Val Phe Val Glu Glu Ala Tyr
                85                  90                  95
Pro Arg His Ile Gly Pro Gly Val Tyr Asp Ile His Ser Pro Arg Val
```

```
            100                 105                 110
Pro Ser Glu Gln Glu Ile Lys Asp Arg Ile Glu Glu Met Leu Pro Tyr
        115                 120                 125
Leu Arg Pro Asp Gln Leu Trp Ile Asn Pro Asp Cys Gly Leu Lys Thr
    130                 135                 140
Arg Gln Trp Pro Glu Thr Lys Ala Ala Leu Thr Asn Met Val Asn Ala
145                 150                 155                 160
Ala Lys Phe Tyr Arg Gln Lys Tyr Thr Lys
                165                 170
```

<210> 23110
<211> 150
<212> PRT
<213> A.fumigatus

<400> 23110

```
Asp Ala Leu Leu Leu Leu Arg Arg Glu Gly Arg Ser Leu Val Ser Arg
1               5                   10                  15
Ser Phe Arg Ser Thr Ser Leu Leu Cys Val Arg Val Ser Leu Cys Val
            20                  25                  30
Leu Ala Arg Ser Val Arg Thr Thr Leu Pro Gly Pro Cys Val Leu Ser
        35                  40                  45
Val Trp Leu Pro Ala Val Ser Pro Met Val Leu Arg Ser Thr Leu Thr
    50                  55                  60
Ser Ala Thr Leu Ser Ser Arg Thr Ser Ser Thr Pro Leu Pro Leu Trp
65                  70                  75                  80
Met Pro Met Phe Ser Ala Leu Arg Thr Ala Ser Leu Thr Pro Ser Cys
                85                  90                  95
Ser Arg Ser Ser Ser Arg Arg Leu Thr Leu Ala Ile Ser Asp Leu Val
            100                 105                 110
Ser Met Thr Ser Thr Leu Leu Val Phe Pro Ala Ser Arg Arg Ser Arg
        115                 120                 125
Ile Ala Ser Arg Lys Cys Phe Leu Thr Ser Ala Leu Thr Ser Ser Gly
    130                 135                 140
Ser Thr Leu Thr Val Ala
145                 150
```

<210> 23111
<211> 186
<212> PRT
<213> A.fumigatus

<400> 23111

```
Lys Ser Gln Ser His His Leu Phe Gly Val Leu Leu Ala Val Glu Leu
1               5                   10                  15
Gly Ser Ile Asp His Val Gly Gln Ser Ser Leu Gly Leu Gly Pro Leu
            20                  25                  30
Thr Gly Leu Gln Ala Thr Val Arg Val Asp Pro Glu Leu Val Arg Ala
        35                  40                  45
Glu Val Arg Lys His Phe Leu Asp Ala Ile Leu Asp Leu Leu Leu Ala
    50                  55                  60
Gly Asn Thr Arg Arg Val Asp Val Ile Asp Thr Arg Ser Asp Met Ala
65                  70                  75                  80
Arg Val Ser Leu Leu Asp Glu Asp Leu Glu Gln Leu Gly Val Arg Leu
                85                  90                  95
Ala Val Leu Asn Ala Glu Asn Ile Gly Ile Gln Ser Gly Asn Gly Val
```

```
            100                 105                 110
Glu Glu Val Leu Glu Leu Arg Val Ala Glu Val Arg Val Asp Leu Ser
        115                 120                 125
Thr Ile Gly Asp Thr Ala Gly Ser Gln Thr Glu Ser Thr His Gly Pro
    130                 135                 140
Gly Lys Val Val Leu Thr Leu Leu Ala Ser Thr Gln Arg Glu Thr Leu
145                 150                 155                 160
Thr Gln Ser Arg Leu Val Asp Leu Asn Asp Leu Asp Thr Ser Asp Arg
                165                 170                 175
Pro Ser Arg Arg Arg Arg Ser Asn Ala Ser
            180                 185
```

<210> 23112
<211> 292
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23112
Glu Asp Gly Xaa Met Asn Gly Leu Val Ala Thr Ser Val Ser Gly Ser
1               5                   10                  15
Ser Met Gly Gln Asp Glu Ile Tyr Glu Arg Trp Leu Arg Lys Pro Leu
            20                  25                  30
Glu Ala His Gly Ala Val Leu Ile Trp Phe Ala Gly Arg Trp Ser Ile
        35                  40                  45
Leu Val Thr Arg Pro Asp Leu Leu Thr Asp Met Phe Arg Asn Glu Asp
    50                  55                  60
Leu Tyr Ala Lys Ala Gly Ser Gln Lys Lys Ile Pro Trp Ser Val Ile
65                  70                  75                  80
Ala Thr Leu Val Gly Asp Asn Ile Ile Asn Ser His Gly Asp Thr Trp
                85                  90                  95
Lys Leu Tyr Thr Gly Ile Met Lys Pro Gly Leu Gln Lys Lys Asn Phe
            100                 105                 110
Asp Thr Ala Pro Leu Leu Leu Lys Ser Arg Arg Phe Val Asp Glu Ile
        115                 120                 125
Leu Ala Glu Gln Asn Ser Ala Gly Arg Gly Thr Gly Ile Leu Val Asn
    130                 135                 140
Thr Phe Val Gln Gln Trp Ala Val Asp Val Met Gly Met Ser Phe Leu
145                 150                 155                 160
Asp Leu Asp Leu Gln Ser Leu Glu Lys Pro His Gly Thr Val Arg Leu
                165                 170                 175
Glu Ala Ile Gln Ser Val Ile Lys Leu Met Leu Phe Arg Pro Leu Phe
            180                 185                 190
Phe Asn Phe Pro Asp Leu Asp Gln Phe Ala Trp Leu Ile Lys Ser Arg
        195                 200                 205
Gln Arg Ala Tyr Glu Ile Met His Glu Phe Gly Asp Thr Leu Met Ala
    210                 215                 220
Thr Val Leu Gly Arg Ile Asp Ser Asn Arg Glu Lys Gly Ile Lys Pro
225                 230                 235                 240
Ala Glu Glu Met Val Val His Met Leu Val Asp Ala Tyr Arg Asp Gly
                245                 250                 255
Arg Leu Thr Glu Lys Gln Phe Lys Asp Asn Leu Lys Ile Val Phe Leu
```

```
            260                 265                 270
Thr Ala His Glu Asn Ala Gln Gln Leu Val Asn Ser Thr Phe Val Phe
        275                 280                 285
Thr Ser Gly Lys
    290
```

<210> 23113
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23113

```
Lys Lys Glu Ser Arg Ser Thr Val Lys Met Val Arg Thr Ser Val Leu
1               5                   10                  15
Asn Asp Ala Leu Asn Ala Ile Asn Asn Ala Glu Lys Ala Gly Lys Arg
            20                  25                  30
Gln Val Leu Ile Arg Pro Ser Ser Lys Val Ile Val Lys Phe Leu Ser
        35                  40                  45
Val Met Gln Lys His Gly Arg Phe Tyr Leu Phe Phe Leu Pro
    50                  55                  60
```

<210> 23114
<211> 115
<212> PRT
<213> A.fumigatus

<400> 23114

```
Arg Ser Tyr Lys Phe Pro Lys Leu Phe Leu Phe Leu Cys Val Trp Gln
1               5                   10                  15
Leu Leu Asn Leu Arg Tyr Ile Leu Thr Asp Leu Leu Ser Gly Tyr Ile
            20                  25                  30
Gly Glu Phe Glu Glu Val Asp Asp His Arg Ser Gly Lys Ile Val Ile
        35                  40                  45
Gln Leu Asn Gly Arg Leu Asn Lys Cys Gly Val Ile Asn Pro Arg Tyr
    50                  55                  60
Pro Val Gln Leu Pro Asp Ile Glu Gln Trp Ala Val Gln Leu Leu Pro
65                  70                  75                  80
Ser Arg Gln Phe Gly Tyr Val Val Leu Thr Thr Ser Ala Gly Ile Met
                85                  90                  95
Asp His Glu Glu Ala Arg Arg Lys His Val Ala Gly Lys Leu Leu Gly
            100                 105                 110
Phe Phe Tyr
        115
```

<210> 23115
<211> 171
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (136)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23115

```
Lys Gln Gln Gly Arg Asn Glu Ala Ser Thr Arg Tyr Asp Lys Thr Glu
```

```
1               5                   10                  15
Thr Asp Lys Ile Arg Leu Ser Pro Arg Ala Ile Ser Gln Gly Ser His
            20                  25                  30
Asn Cys Pro His Thr Leu Pro Leu His Tyr Leu Leu Ser Ser Tyr Leu
        35                  40                  45
Pro Arg Gly Ile Thr Ser Ser Ser His Tyr Thr Ser Ser Ala Ile Pro
    50                  55                  60
Ile Thr Arg Pro Ala Met Thr Ser Ile Gln Ile Leu Asp Gly Gly Leu
65                  70                  75                  80
Gly Thr Ser Leu Gln Asp Gln His Gly Val Thr Phe Asp Ser Ser Thr
                85                  90                  95
Pro Leu Trp Ser Ser His Leu Leu Val Ser Asp Pro Thr Thr Leu Leu
            100                 105                 110
Ala Cys Gln Arg Asn Phe Ile Thr Ala Gly Cys Asp Val Leu Leu Thr
        115                 120                 125
Ala Thr Tyr Gln Val Ser Ile Xaa Arg Ala Ser Pro Ala Gln Glu Pro
    130                 135                 140
Arg Val Pro Arg Trp His Pro Pro Pro Arg Tyr Arg Lys Ile Ser Pro
145                 150                 155                 160
Asn Cys Thr Gly Arg Arg Arg Thr Ser Ala Gly
                165                 170
```

<210> 23116
<211> 326
<212> PRT
<213> A.fumigatus

<400> 23116

```
Arg Gly Ser Leu Ala Pro Arg Gly Glu Asp Glu Ala Ser Ser Gly Ala
1               5                   10                  15
Ala Phe Val Arg Ile Leu Gly Leu Lys Leu Asp Pro Ala Asn Ala Pro
            20                  25                  30
Arg Leu His Leu Phe Ala Trp Asn Val Gly Ala Arg His Pro Pro Pro
        35                  40                  45
Ser Ala Met Pro Thr Ala Ala Ser Ala Thr Ala Val Pro Ile Val Asp
    50                  55                  60
Ile Ile Ser Gln Asp Glu Met Arg Ser Leu Met Thr Phe Tyr Phe Glu
65                  70                  75                  80
Lys Val Asp Pro Cys Tyr Pro Phe Leu Asp Arg Asp Val Val Leu Arg
                85                  90                  95
Gln Val Ser Arg Arg Trp Leu Pro Ser Ser Ser Glu Ser Ala Leu Pro
            100                 105                 110
Tyr Gly Pro Tyr Asp Ala Val Leu Cys Gly Ile Thr Ala Leu Gly Phe
        115                 120                 125
Leu Phe Ser Arg Arg Arg Ala Val Pro Ala Glu Tyr Arg Val Ala Glu
    130                 135                 140
Thr Ala Arg Arg Ile Leu Glu His Gly Leu Leu Val Asp Thr Pro Ala
145                 150                 155                 160
Ser Val Asp Ile Val Thr Gly Trp Val Leu Arg Val Ala Phe Leu Arg
                165                 170                 175
Met Thr Ala Ser Arg His Val Ala Trp Met Ala Ser Cys Thr Leu Met
            180                 185                 190
His Leu Ile Glu Ala Ser Gly Leu His Arg Glu Pro Leu Pro Glu Thr
        195                 200                 205
Ser Leu Ser Gln Thr Ser Thr Pro Cys Ala Pro Glu Ile Arg Arg Arg
    210                 215                 220
```

```
Leu Phe Gly Met Ala Arg His Leu Ile Val Trp Ile Ser Phe Glu Leu
225                 230                 235                 240
Gly Arg Ser Arg Val Val Leu His Gly Gly Gly Ser Leu Pro Leu Gly
                245                 250                 255
Pro Arg Ser Pro Asn Gly Pro Ser Glu Tyr Phe Asn Leu Ser Pro Val
            260                 265                 270
Leu Gly Lys Pro Arg Thr Pro Ser Lys Pro Asn Thr Pro Ala Ala Trp
        275                 280                 285
Asn Pro Ser Phe Ala Gly Cys Pro Arg Arg Phe Phe Gln Val Ser Asn
    290                 295                 300
Val Pro Ser Ser Val Ala Gly Met Glu Pro Pro Arg Phe Trp Pro Gly
305                 310                 315                 320
Thr Gly Arg Leu Leu Pro
                325
```

<210> 23117
<211> 210
<212> PRT
<213> A.fumigatus

```
<400> 23117
Thr Pro Glu Val Gln Gln Ile Ile Ala Ser Glu Gly Gly Lys Val Gln
1               5                   10                  15
Tyr Ile Ile Ala Pro Asp Ile Glu His His Leu His Ile Thr Thr Trp
            20                  25                  30
Lys Arg Ala Phe Pro Asp Ala Gln Ile Leu Ala Pro Glu Gly Leu Tyr
        35                  40                  45
Glu Lys Arg Lys Thr Ser Arg Ser Tyr Pro Asp Asp Pro Ala Phe Asp
    50                  55                  60
His Ile Phe Thr Lys Asp Gly Lys His Ser Leu Ser Ile Ser Asp Glu
65                  70                  75                  80
Phe His Ala Asp Phe Glu Val Glu Tyr Met Asp Gly His Gly Asn Arg
                85                  90                  95
Glu Ile Ile Leu Cys His Lys Pro Ser Arg Thr Leu Ile Glu Ala Asp
            100                 105                 110
Leu Leu Phe Asn Leu Pro Cys Lys Glu Gln Tyr Ala Gln Ser Glu Glu
        115                 120                 125
Ser Pro Thr Ala Gly Leu Leu Asn Arg Ala Phe Ile Ser Leu Leu Gln
    130                 135                 140
Ala Thr Ala Ser Pro Pro Thr Ala His Arg Arg Phe Ala Trp Tyr Val
145                 150                 155                 160
Leu Ser Lys Gln Asp Arg Ala Ser Phe Ala Glu Ser Val Arg Arg Ile
                165                 170                 175
Tyr Asn Trp Asp Phe Asp Arg Val Ile Pro Cys His Gly Asp Val Ile
            180                 185                 190
Glu Asn Arg Gly Lys Glu Val Phe Arg Ser Val Phe Glu Trp Phe Leu
        195                 200                 205
Glu Arg
    210
```

<210> 23118
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23118

```
Ser Pro Gln Phe Ser Val Arg Ala Ser Cys Ala Asn Glu Ser Glu Thr
1               5                   10                  15
Ile Lys Leu Ile Glu Asp Ser Ala Pro Ser Lys Gly Glu Ala Gln Leu
            20                  25                  30
Ala Gly Asp Tyr Leu Asn Ala Arg Glu Tyr Thr Val Gly Tyr Leu Gln
        35                  40                  45
Leu Ser Gln Val Lys Arg Thr Ala Arg His Pro Leu Leu Leu Cys Leu
    50                  55                  60
Leu Trp Ala Ser Arg Arg
65                  70
```

<210> 23119
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23119

```
Leu Val Pro Lys Ile Ile Glu Asp Ser Phe Arg Pro Ser Gln His Lys
1               5                   10                  15
Phe Ile His Phe Lys Leu Asp Ser Arg Lys Phe Cys Ile Leu Ala Xaa
            20                  25                  30
Ser Ile His Thr Ile Cys Thr Arg Leu His Gly Ala Val Lys Pro Val
        35                  40                  45
Pro Leu Phe Gly Gly Ser Lys Gln Asp Leu Phe Leu Thr Arg Thr Tyr
    50                  55                  60
Asn Lys Asn Phe Thr Ile Ser Gln Val Arg His Val Glu
65                  70                  75
```

<210> 23120
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (129)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23120

```
Asp Leu Ile Thr Asp Ile Val Leu Asp Gln Thr Arg Leu Trp Ser Arg
1               5                   10                  15
Leu Leu Leu His Phe Trp Ala Leu Glu Ala Glu Arg Glu Val Asp Arg
            20                  25                  30
Thr Ser Lys Leu Asp Pro Ile Glu Tyr Leu Gln Arg Ala Tyr Glu Glu
        35                  40                  45
Thr Ile Arg Ala Thr Thr Ser Pro Asn Glu Trp Leu Gly Thr Thr Thr
    50                  55                  60
Thr Val Thr Ala Leu Leu His Phe Thr Gly Asp Asn Ala Glu Asn Ala
65                  70                  75                  80
Lys Pro Leu Leu Tyr Val Thr Asn Leu Gly Asp Cys Lys Val Leu Val
                85                  90                  95
```

```
Ile Arg Pro Ser Glu Glu Lys Val Leu Phe Arg Thr Thr Glu Gln Trp
            100                 105                 110
His Trp Phe Asp Cys Pro Met Gln Pro Ser Thr Asn Ser Val Asp Thr
        115                 120                 125
Xaa Arg Lys Asp Ala Lys Leu Ser
    130                 135
```

<210> 23121
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23121

```
Leu Arg Cys Pro Arg Phe Phe Arg Glu Tyr Ser Gln Phe Leu Pro Ile
1               5                   10                  15
Leu Asp Ile Gly Leu Thr Pro Asn Ala Tyr Tyr Ser Gln Ser Pro Phe
            20                  25                  30
Leu Phe Trp Ala Val Ile Gly Val Ala Cys Arg Ser Tyr Pro Lys Asn
        35                  40                  45
Pro Thr Leu Ser Ser Pro Arg Gly Trp Lys Gly Pro Cys Asn Gln Cys
    50                  55                  60
Arg Ser
65
```

<210> 23122
<211> 168
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23122

```
Thr Gly Glu Thr Ile Xaa Ile Arg Leu Phe Leu Gly Gly Phe Asp Leu
1               5                   10                  15
Thr Pro Thr Phe Arg Asp Val Asn Lys Lys Tyr Ser Thr Arg Tyr Tyr
            20                  25                  30
Leu Ser Leu Val Leu Ile Asp Glu Gly Lys Gln Asn Lys Lys Met Lys
        35                  40                  45
Ala Leu Ala Cys Ser Asp Ile Phe Cys Ile Gly Leu Asp Cys Pro Ile
    50                  55                  60
Asp Ser Leu Trp Arg Thr Lys Cys Arg Leu Tyr Asp Leu Glu Ser Arg
65                  70                  75                  80
Ser Pro Leu Ser Arg Arg Cys Leu Leu Pro Ala Leu Val Pro Glu Val
                85                  90                  95
Ser Ile Cys Ser Thr Cys Pro Met Leu Ser His Gly Ile Pro Pro Arg
            100                 105                 110
His Phe Asn Ser Arg Ser Ala Ile Glu Ile Thr Ser Asp Gln Ser Trp
        115                 120                 125
Arg Ser Val Asp Ser Asp Arg Leu Thr Cys Asp Leu Ile Pro Asn Gly
    130                 135                 140
Lys Ile Pro His Ala Lys Pro His Leu Asp Asp Pro Thr Arg Val Ala
145                 150                 155                 160
Ala Pro Leu Gly Pro Gly Phe Ser
```

165

<210> 23123
<211> 157
<212> PRT
<213> A.fumigatus

<400> 23123
Ala Gly Tyr Leu Thr Thr Leu Gly Gln Glu Leu Ala Asn Glu Ser Ala
1 5 10 15
Ala Pro His Ile Arg Thr Ala Ala Gly Leu Ala Leu Lys Asn Ala Phe
20 25 30
Thr Phe Arg Asp Leu Ala Lys Leu Arg Glu Val Gln Glu Arg Trp Ile
35 40 45
Ser Gly Ile Ser Pro Glu Val Lys Ala Gln Val Lys Glu Leu Ala Leu
50 55 60
Lys Thr Leu Ala Ser Lys Asp Ala Arg Ala Gly Gln Ser Ala Ala Gln
65 70 75 80
Phe Ile Val Ser Ile Ala Ala Ile Glu Leu Pro Arg Asn Glu Trp Pro
85 90 95
Glu Leu Met Asn His Leu Val Gln Ser Val Ala Thr Gly Thr Asp Gln
100 105 110
Leu Lys Gln Ala Ser Leu Ile Thr Ile Gly Phe Ile Cys Glu Ser Gln
115 120 125
Asp Pro Glu Leu Arg Glu Ser Leu Ala Ala His Ser Asn Ala Ile Leu
130 135 140
Thr Ala Val Ser Ser Pro Arg Gly Pro Thr Asp Pro Arg
145 150 155

<210> 23124
<211> 91
<212> PRT
<213> A.fumigatus

<400> 23124
Gln Ser Gly Pro Thr Asn Phe Cys His Val Asn Asp Leu Thr Leu Ile
1 5 10 15
Ala Arg Ala His Gln Leu Val Asn Glu Gly Tyr Lys Tyr His Phe Ala
20 25 30
Asn Gln Asn Val Val Thr Val Trp Ser Ala Pro Asn Tyr Cys Tyr Arg
35 40 45
Cys Gly Asn Leu Ala Ser Val Cys Glu Ile Gly Asp Asp Leu Lys Pro
50 55 60
Thr Phe Lys Leu Phe Ser Ala Val Ser Asp Asp Gln Arg His Val Pro
65 70 75 80
Val Ser Arg Pro Gly Arg Ser Glu Tyr Phe Leu
85 90

<210> 23125
<211> 130
<212> PRT
<213> A.fumigatus

<400> 23125
Thr Phe Cys Tyr Ser Ala Met Gly Leu Ile Ala Phe Ile Leu Asp Gly
1 5 10 15

```
Ile Cys Lys His Cys Ser Thr Gln Ser Thr Trp Val Leu Val Gly Ile
            20                  25                  30
Gly Leu Leu Ser Ile Leu Ala Val Ser Val Ile Ile Asn Val Leu Gln
        35                  40                  45
Gln Leu Leu Phe Lys Asn Pro His Glu Pro Pro Val Val Phe His Trp
    50                  55                  60
Phe Pro Phe Ile Gly Ser Thr Ile Ser Tyr Gly Ile Asp Pro Tyr Lys
65                  70                  75                  80
Phe Phe Phe Asp Cys Arg Ala Lys Val Cys Ile Val Ala Ala Lys Phe
                85                  90                  95
Met Cys Leu Ala Asn Gln Ile Cys Phe Leu Ala Val Trp Arg Tyr Leu
            100                 105                 110
His Ile His Ser Thr Trp Gln Lys Glu Asn Gly Val Ser Trp Tyr Glu
        115                 120                 125
Arg Gln
    130
```

<210> 23126
<211> 208
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23126

```
Ile Met Tyr His Cys Gly Thr Ser Xaa Pro Val Val Lys Thr Asp Gly
1               5                   10                  15
Ile Thr Ala Ser Pro Gln Ser Phe Arg Pro Pro Leu Thr Asp Ala Thr
            20                  25                  30
His Arg Leu Asn Asn Cys Ala Thr Pro Lys Ser Glu Lys Gly Ser His
        35                  40                  45
Ile Glu Ala Glu Asp Leu Leu Ile Thr Pro Asp Arg Met Ser Ile Val
    50                  55                  60
Thr Ser Pro Leu Ala Thr Arg Glu Asn Val Gly Glu Asn Arg Ala Ser
65                  70                  75                  80
Pro Asn Pro Asn Ser Gln Ala Gly Ser Lys Arg Asn Ser Ala Ile Ser
                85                  90                  95
Thr Thr Ser Asn Val Ser Gly Lys Gly Lys Arg Lys Thr His Val Gly
            100                 105                 110
Pro Trp Gln Leu Gly Lys Thr Leu Gly Glu Gly Ala Thr Gly Arg Val
        115                 120                 125
Arg Leu Ala Lys His Ala Val Thr Gly Gln Thr Ala Ala Ile Lys Ile
    130                 135                 140
Val Ser Lys Arg Ser Ala Ala Ile Ala Gln Ser Glu Ser Ile Ala Ala
145                 150                 155                 160
Met Asp Arg Asn Ala Ser Leu Phe Ser Gly Thr Gly Thr Arg Gln Met
                165                 170                 175
Pro Ser Gly Ile Glu Arg Glu Val Val Ile Met Lys Leu Ile Glu His
            180                 185                 190
Pro Asn Val Ile Ser Leu Tyr Asp Val Trp Glu Asn Arg Gly Glu Leu
        195                 200                 205
```

<210> 23127

<211> 251
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (17)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23127
His Phe Val Ser Arg Tyr Leu Phe Leu Glu Tyr Val Gln Gly Gly Glu
1 5 10 15
Xaa Phe His Tyr Val Gln Asn His Gly Pro Leu Pro Glu Glu Glu Ala
20 25 30
Val Arg Leu Phe Arg Gln Ile Ile Ala Gly Leu Gly Tyr Cys His Arg
35 40 45
Phe Asn Ile Cys His Arg Asp Leu Lys Pro Glu Asn Ile Leu Leu Asp
50 55 60
Ser Trp Arg Asn Val Lys Leu Ala Asp Phe Gly Met Ala Ala Leu Gln
65 70 75 80
Pro Ala Gly His Trp Leu Asn Thr Ser Cys Gly Ser Pro His Tyr Ala
85 90 95
Ala Pro Glu Ile Ile Tyr Gly Arg Lys Tyr Arg Gly Asp Lys Ala Asp
100 105 110
Ile Trp Ser Cys Gly Ile Ile Leu Tyr Ala Leu Leu Thr Gly Tyr Leu
115 120 125
Pro Phe Asp Gly Gly Asp Leu Pro Ser Thr Leu Arg Gln Val Lys Arg
130 135 140
Gly Glu Tyr Thr Ile Pro Pro Glu Leu Ser Val Glu Ala Ala Asp Leu
145 150 155 160
Ile Gln Arg Ile Leu Gln Lys Arg Pro Glu Asp Arg Ile Thr Met His
165 170 175
Gly Ile Trp Met His Pro Leu Leu Lys Lys Tyr Glu His Phe His Gln
180 185 190
Ala Met Ser His His Tyr Leu Gly Pro Ala Pro Pro Leu Thr Ala Gln
195 200 205
Asp Cys Gly Pro Pro Val Leu Ser Arg Gln Asp Ile Asp Ile Asp Ile
210 215 220
Leu Arg Asn Leu Gln Thr Leu Trp His Gly Val Lys Thr Glu Gly Leu
225 230 235 240
His His Gly Ala Arg Arg Ser Ala Leu Met Arg
245 250

<210> 23128
<211> 152
<212> PRT
<213> A.fumigatus

<400> 23128
Ile Pro Arg Pro Gly Arg Arg Arg Ala Arg Cys Arg Gln Gln Arg Pro
1 5 10 15
His Gln Tyr Arg Arg Leu Ala Ala Pro Gly Ile Arg Arg Pro Arg Asp
20 25 30
Pro Arg Gly Ala Ala Thr Arg Val Gln Gly Gly Ala Arg Arg Gly Arg
35 40 45
Cys Pro Arg Val Gly Met Glu Val Glu Met Ala Gln Arg Ser Asp Arg

```
    50                  55                  60
Arg Ala Thr His Asp Ala Ala Glu Glu Leu Cys Leu Val Ser Val Val
65                  70                  75                  80
Ile Ile Leu Ala Val Leu Ala Leu Arg Leu Phe Pro Ile Phe Ile Ala
                85                  90                  95
Val Leu Ile Cys Leu Cys His His Val Ala Ile Val Ser Gly Met Ser
            100                 105                 110
Arg Val Cys Ile Leu Gln Thr Glu Arg Arg Thr Lys Gly Ala Phe Leu
        115                 120                 125
Phe Phe Tyr Ser Phe Leu Leu Ile Phe Cys His Val His Ser Ser Phe
    130                 135                 140
Ser Ile Leu Asp Val Leu Asn Ala
145                 150
```

<210> 23129
<211> 270
<212> PRT
<213> A.fumigatus

<400> 23129

```
His Ser Gln Cys Met Pro Leu Tyr His Ser Ser Ala Thr Ile Leu Gly
1               5                   10                  15
Phe Met Ser Cys Leu Met Ser Ala Ser Thr Phe Val Ile Gly His Lys
            20                  25                  30
Phe Ser Ala Arg Ser Phe Trp Lys Glu Ala Arg Glu Asn Asn Ala Thr
        35                  40                  45
Ile Val Gln Tyr Val Gly Glu Thr Leu Arg Tyr Leu Leu Ala Val Pro
    50                  55                  60
Pro Gln Ile Asp Pro Val Thr Gly Glu Asp Leu Asp Lys Lys His Ser
65                  70                  75                  80
Val Arg Ala Ile Phe Gly Asn Gly Leu Arg Pro Asp Ile Trp Asn Arg
                85                  90                  95
Val Lys Glu Arg Phe Asn Val Pro Thr Ile Ala Glu Phe Tyr Ala Ala
            100                 105                 110
Thr Glu Gly Thr Ser Gly Ser Trp Asn Leu Ser Ser Asn Asp Phe Thr
        115                 120                 125
Ala Gly Ala Ile Gly Arg Asn Gly Ala Leu Thr Lys Leu Ile Leu Gly
    130                 135                 140
Ala Ser Leu Ala Val Val Glu Val Asp His Glu Ser Gln Glu Pro Trp
145                 150                 155                 160
Arg Asp Pro Lys Thr Gly Leu Cys Arg Lys Val Pro His Gly Gln Pro
                165                 170                 175
Gly Glu Leu Leu Tyr Ala Ile Asp Pro Asn Asp Pro Ser Asp Lys Phe
            180                 185                 190
Gln Gly Tyr Phe Gln Asn Ser Lys Ala Thr Glu Ser Lys Ile Ile Arg
        195                 200                 205
Asp Val Leu Arg Lys Gly Asp Ala Phe Phe Arg Thr Gly Asp Met Val
    210                 215                 220
Arg Trp Asp Leu Glu Gly Arg Trp Tyr Phe Ser Asp Arg Leu Gly Asp
225                 230                 235                 240
Thr Phe Arg Trp Lys Ser Glu Asn Val Ser Thr Ser Ala Val Gly Leu
                245                 250                 255
His Pro Thr Gly Leu Asp Gly Ser Ala Leu Ile Gly Gly Lys
            260                 265                 270
```

<210> 23130

<211> 137
<212> PRT
<213> A.fumigatus

<400> 23130
Ala Gly Phe Asn Arg Arg Pro Pro Pro Arg Gly Glu Asp Gln Ala Gly
1 5 10 15
Val Ser Thr Ser Met Ala Gly Gln Glu Gly Val Ala Ser Val Phe Ser
20 25 30
Pro Met Ala Arg Thr Leu Asp Asp Leu Thr Tyr Phe Thr Arg Ala Ile
35 40 45
Ile Gly Met Gln Pro Trp Lys Tyr Asp Asn Thr Val His Pro Ile Ala
50 55 60
Trp Arg Ser Ser Glu Glu Lys Glu Ala Gln Thr Lys Gln Leu Arg Ile
65 70 75 80
Gly Leu Met Ser Ser Asp Gly Met Val Ala Asn Ile His Thr Tyr Thr
85 90 95
Lys Leu Thr Val Pro Arg Ser Arg Pro Ser Asp Ala Arg His Gln Pro
100 105 110
Cys His Cys His His Cys Arg Cys Thr His Ser Cys Arg Pro His Ser
115 120 125
Leu Arg Asp His Thr Pro Gly Ile Arg
130 135

<210> 23131
<211> 204
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (166)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23131
Pro Ser Pro Gly Val Val Pro Pro Thr Pro Ala Ile Asn Arg Ala Ile
1 5 10 15
Ala Thr Thr Val Ala Ala Leu Thr Ala Ala Gly His Thr Val Ser Glu
20 25 30
Ile Thr Pro Pro Ala Ser Ala Asp Pro Phe Thr Gly Leu Thr Leu Ala
35 40 45
Ser Gln Leu Leu Asn Ser Asp Gly Cys Thr Thr Phe Asn Ser His Arg
50 55 60
Tyr Ser Phe Glu Pro Ser Asp Pro Gly Ala Glu Gln Leu Thr Arg Ile
65 70 75 80
Ala Arg Leu Pro Arg Pro Leu Arg Tyr Leu Tyr Tyr Leu Tyr Val Arg
85 90 95
Tyr Ile Arg Arg Asp Thr Lys Trp Ala Ala Leu Ile Arg Ser Phe Glu
100 105 110
His Lys Ser Ala Ala Glu Gln Trp Lys Leu Val Ala Arg Arg Glu Ala
115 120 125
Phe Arg Ala Thr Trp His Ala Trp Trp Asp Ala Glu Pro Gln Gln Tyr
130 135 140
Asp Phe Ile Leu Cys Pro Val Thr Pro Arg Leu Val Phe Arg Thr Lys
145 150 155 160
Ala Asn Arg Gln Ala Xaa Ser Ser Cys Gly Val Ser Phe Arg Gly Lys

```
                165                 170                 175
Arg Val Asn Thr Leu Arg Gly Val Tyr Thr Phe Ser His Leu Asn Arg
            180                 185                 190
Lys Lys Asp Ala Leu Leu Ala Pro Phe Lys Pro Val
        195                 200
```

<210> 23132
<211> 110
<212> PRT
<213> A.fumigatus

<400> 23132

```
Tyr Ala Arg Pro Leu Thr Ala Pro Ala Ile Tyr Phe Thr Lys Leu Thr
1               5                   10                  15
Leu Leu Leu Leu Tyr Leu Arg Leu Phe Leu Leu Asn Arg Pro Val Lys
            20                  25                  30
Phe Gly Ile Trp Gly Gly Ile Val Phe Cys Thr Ile Tyr Tyr Thr Ala
        35                  40                  45
Ala Phe Phe Leu Asn Leu Phe Leu Arg Asp Leu His Ala Leu Ser Lys
    50                  55                  60
Leu Ala Tyr Ser Val Gly Val Phe Ser Val Val Ser Asp Val Tyr Ile
65                  70                  75                  80
Ile Thr Leu Pro Leu Leu Ala Ile Val Gln Leu Arg Leu Ser Arg Ala
                85                  90                  95
Lys Lys Trp Arg Val Ala Ala Val Phe Leu Thr Gly Leu Leu
            100                 105                 110
```

<210> 23133
<211> 71
<212> PRT
<213> A.fumigatus

<400> 23133

```
Ser Ile Leu Asn Leu Leu Val Asp Tyr Thr Phe Phe Asn Asn Tyr Arg
1               5                   10                  15
Leu Phe Tyr Tyr Lys His Ser Leu Ser Glu Gln Pro Gly Pro Ser Ile
            20                  25                  30
Gln Arg Ala Arg Arg Pro Leu Ile Arg Leu Ile Ser Trp Ala Lys Pro
        35                  40                  45
Thr Phe Thr Thr His Gly Thr Leu Thr Lys His Ala Trp Leu Leu Leu
    50                  55                  60
Ala Ser Asn Asn Ser Cys Gln
65                  70
```

<210> 23134
<211> 142
<212> PRT
<213> A.fumigatus

<400> 23134

```
Val Arg Cys Ile Cys Ser Cys Ser Phe Trp Val Glu Val Phe Thr Asp
1               5                   10                  15
Trp Arg Leu Ser Phe Asp Met Thr Ser Ile Glu Glu Gly Gly Ile Val
            20                  25                  30
Phe His Pro Lys Glu Asn Asn Asn Glu Asp Val Lys Val Ala Tyr Lys
        35                  40                  45
```

```
Glu Tyr Gly Asp Met Lys Met Glu Ser Thr Ala Gln Asp Leu Ala Glu
    50                  55                  60
Ser Ile Ala Asp Asp Val Lys Gln Asn Met Thr Ala Ala Leu Glu Ser
65                  70                  75                  80
Val Ser Glu Thr Leu Ser Gln Ala Met Ala Asn Ala Asn Arg Leu Cys
                85                  90                  95
Leu Pro Ala Ala Gly Thr Phe Phe Met Lys Asp Pro Val Phe Asn Glu
            100                 105                 110
Gly Gly Asp Leu Leu Val Lys Leu Glu Tyr Asp Gly Tyr Val Leu Ser
        115                 120                 125
Asn Val Tyr Leu Ser Val Leu Cys His Ser Asn Leu Thr Val
    130                 135                 140
```

<210> 23135
<211> 153
<212> PRT
<213> A.fumigatus

<400> 23135

```
Leu Pro Leu Ile Pro Cys Leu Ser Asn Arg Pro Ile Leu Ser Ser Phe
1               5                   10                  15
Arg Thr Ile Ser Ser Val Ser Thr Ser Ser Val Asn Met Met Phe Thr
            20                  25                  30
Lys Ala Phe Phe Ala Ala Ala Phe Ala Thr Leu Ser Thr Ala Leu Pro
        35                  40                  45
His Val Ile Gln Arg Ser Gly Asn Ser Ser Ala Ser Gly Gly Gly Val
    50                  55                  60
Gln Ile Val Asn Asn Leu Ser Gln Thr Val Tyr Ala Trp Ser Val Ala
65                  70                  75                  80
Asp Ser Val Ser Asp Met His Thr Leu Ser Ala Asp Gly Gly Ser Tyr
                85                  90                  95
Ser Glu Asp Trp Arg Thr Asn Ser Asn Gly Gly Gly Val Ser Ile Lys
            100                 105                 110
Leu Ser Thr Lys Pro Asp Gln Ser Asp Val Leu Gln Phe Glu Tyr Thr
        115                 120                 125
Gln Ser Gly Asp Thr Ile Tyr Trp Asp Met Ser Cys Ile Asp Met Gly
    130                 135                 140
Thr Asp Ser Glu Phe Ser Lys Phe Gly
145                 150
```

<210> 23136
<211> 96
<212> PRT
<213> A.fumigatus

<400> 23136

```
Ser Thr Leu Gly Leu Val Arg Leu Asp Ser Pro Phe Leu Phe Pro Arg
1               5                   10                  15
Asn Ile Gln His Gln Lys Thr Asp Ser Val Gln Phe Ala Asp Tyr Pro
            20                  25                  30
Ile Ala Leu Trp Asn Leu Ile Leu Ala Ala Ser Ala Ala Val Tyr Cys
        35                  40                  45
Asp Lys Ala Gly Arg Arg Pro Leu Phe Leu Thr Ser Val Ala Gly Met
    50                  55                  60
Leu Cys Ser Tyr Val Val Val Met Gly Leu Ser Ala Gly Phe Ala Asn
65                  70                  75                  80
```

```
Thr Lys Gln Ser Ser Leu Gly Ile Ala Val Ile Pro Leu Leu Phe Met
                85                  90                  95

<210> 23137
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23137
Pro Ser Pro His Ser Tyr Phe Gly Phe Tyr Asp Met Ala Phe Thr Pro
1               5                   10                  15
Leu Pro Ile Ala Tyr Thr Val Glu Ile Leu Pro Phe Thr Ile Arg Ser
            20                  25                  30
Lys Gly Met Ala Leu Phe Thr Ser Thr Ala Thr Met Gly Asn Ala Phe
        35                  40                  45
Asn Gln Phe Val Asn Pro Ile Ala Leu Lys Ala Ile Ser Trp Arg
    50                  55                  60

<210> 23138
<211> 84
<212> PRT
<213> A.fumigatus

<400> 23138
Trp Pro Cys Thr Asp Ser Cys Met Leu Ser Tyr Ala Val Tyr Ile Ala
1               5                   10                  15
Ile Leu Leu Phe Tyr Phe Cys Phe Ile Phe Phe Met Phe His Glu Thr
            20                  25                  30
Lys Arg Leu Ser Ala Glu Asp Ala Ala Arg Val Phe Asp Tyr Asn Arg
        35                  40                  45
Lys Gly Ala Val Met Asp Asn Ala Gly Asp Asp Val Glu Gln Gly Pro
    50                  55                  60
Val Ser Pro Asp Asn Glu Lys Gln Glu Ser Arg Ser Val Val Glu Val
65                  70                  75                  80
Lys Asp Arg Val


<210> 23139
<211> 129
<212> PRT
<213> A.fumigatus

<400> 23139
Tyr Asp Arg Tyr Met His Met Ser Thr Thr Asn Ile Ile Ile Gly Gln
1               5                   10                  15
Arg Gly Asn Asp Lys Ala Ser Leu Ala Leu Ser Ser Phe Ile His Ala
            20                  25                  30
Leu Phe Glu Leu Glu Cys Tyr Ala Val Ala Arg Leu Val Val Lys Glu
        35                  40                  45
Asn Lys Pro Pro Val Met Val Leu Leu Ala Pro Ser Ile Glu Pro Asp
    50                  55                  60
Tyr Glu Cys Leu Leu Glu Val Gln Leu Pro Phe Ala Glu Asp Val Arg
65                  70                  75                  80
Thr Tyr Arg Phe Pro Pro Leu Asp Lys Val Ile Thr Val Ser Gly Lys
                85                  90                  95
Val Val Thr Glu His Arg Asn Leu Pro Asn Lys Asp Leu Leu Asp Ala
```

```
            100                 105                 110
Met Ser Glu Tyr Val Asp Ser Met Glu Leu Val Asp Thr Asp Glu Thr
        115                 120                 125
Gly
```

<210> 23140
<211> 190
<212> PRT
<213> A.fumigatus

<400> 23140

```
Pro Arg Ala Glu Asp Val Ser Arg Pro Gly Asn Glu Gly Pro Ile Ala
1               5                   10                  15
Trp Met Pro Thr Ile Pro Ser Lys Arg Lys Gln Met Val Gly Gly Gly
            20                  25                  30
Val Gly Met Lys Gly Ile Ile Ser Ala Met Ala Val Asn Pro Val Gly
        35                  40                  45
Asp Gly Ile Leu Ala Ala Gly Thr Phe Ser Arg Gln Ile Gly Leu Tyr
    50                  55                  60
Gly Ala Asn Gly Ile Gly Glu Ser Leu Gly Thr Phe Ser Ile Thr Lys
65                  70                  75                  80
Thr Asp Ala His Arg His Ile Gly Gly Ala Gly Val Thr Gln Leu Leu
                85                  90                  95
Trp Ser Pro Cys Gly Arg Tyr Leu Tyr Ile Ala Glu Arg Lys Ser Asp
            100                 105                 110
Gly Val Leu Ile Phe Asp Ile Arg Val Thr Gly Gln Leu Leu Gly Trp
        115                 120                 125
Leu Glu Gly Arg Arg Ala Phe Thr Asn Gln Arg Met Lys Ile Asp Val
    130                 135                 140
Val Pro Val Ala Gln Gly Glu Ser His Glu Ile Trp Ala Gly Gly Thr
145                 150                 155                 160
Asp Gly Tyr Met Arg Val Trp Arg Asn Pro Thr His Thr Ala Gly Pro
                165                 170                 175
Gln Lys Cys Asp Trp Glu Trp Lys Val His Asp Gly Lys Gln
            180                 185                 190
```

<210> 23141
<211> 123
<212> PRT
<213> A.fumigatus

<400> 23141

```
Ile Phe Glu Glu His Asp Phe Phe Thr Pro Gln Pro Arg Ile Ala Asp
1               5                   10                  15
Ala Tyr Phe Leu Arg Leu Ile Leu His Asp Trp Asn Asp Ala Asp Cys
            20                  25                  30
Thr Arg Ile Val Arg Gln Ile Ser Ser Ala Leu Arg Pro Gly Ala Arg
        35                  40                  45
Leu Leu Ile Met Asp Ala Val Leu Pro Glu Pro Gly Glu Gly Ser Leu
    50                  55                  60
Gln Ser Glu Arg Arg Leu Arg Arg Ser Asp Ile Gly Met Tyr Thr Leu
65                  70                  75                  80
Phe Ser Ala Lys Glu Arg Ser Leu Ala Gln Met Arg Arg Leu Val Glu
                85                  90                  95
Asp Cys Asp Ser Arg Leu Arg Phe Glu Lys Leu Tyr Thr Pro Pro Gly
```

```
            100                 105                 110
Ser His Ala Ser Met Leu Ser Trp Ile Cys Glu
        115                 120

<210> 23142
<211> 318
<212> PRT
<213> A.fumigatus

<400> 23142
Arg Gly Ser Phe Glu Pro Arg Gly Glu Asp Pro Trp Ser Phe Leu Pro
1               5                   10                  15
Arg Thr Leu Tyr Asn Glu Phe Ser Phe Phe Phe Asn Ile Tyr Phe Leu
            20                  25                  30
Leu Val Ala Leu Ser Gln Ile Ile Pro Val Leu Arg Ile Gly Tyr Met
        35                  40                  45
Ser Ser Tyr Ile Ala Pro Leu Ala Phe Val Val Ser Ile Ser Leu Gly
    50                  55                  60
Lys Glu Ala Leu Asp Asp Ile Gly Arg Arg Arg Arg Asp Ala Glu Ala
65                  70                  75                  80
Asn Ser Glu Glu Phe Thr Val Leu Ser Phe Asp Lys Pro Val Gly Arg
                85                  90                  95
Arg Ala Phe Ala Thr Pro Ala Asn Asn Tyr Ser Asp Ser Asp Glu Val
            100                 105                 110
Phe Glu Ile Thr Lys Lys Ser Arg Asp Leu Lys Val Gly Asp Val Leu
        115                 120                 125
Lys Val Arg Lys Asn Gln Arg Leu Pro Ala Asp Val Val Ile Leu Lys
    130                 135                 140
Thr Ile Ser Asn Asp Ser Val Thr Ala Arg Arg Ser Ser Ser Ala Glu
145                 150                 155                 160
Val Thr Ala Asp Leu Met Arg Pro Asp Pro Glu Ser Val Gln Pro Ser
                165                 170                 175
Glu Val Glu Pro Ser Ser Ser Ala Ala Ala Asp Glu Ile Gly Thr Ser
            180                 185                 190
Ser Ala Ser Asp Thr Phe Ile Arg Thr Asp Gln Leu Asp Gly Glu Thr
        195                 200                 205
Asp Trp Lys Leu Arg Leu Pro Ser Val Leu Ser Gln Ser Leu Arg Leu
    210                 215                 220
Arg Asp Phe Thr Arg Leu Lys Val Thr Ala Ser Ala Pro Asp Lys Arg
225                 230                 235                 240
Val Asn Glu Phe Leu Gly Thr Ile Glu Leu Gly Ser Gln Ser Gly Phe
                245                 250                 255
Tyr Asp Pro Leu Val Asp Lys Ala Gln Thr Gly Gly Glu Ala Ser Ser
            260                 265                 270
Glu Asp Arg Gln Ala Asn Ser Ala Pro Leu Thr Ile Asp Asn Thr Ala
        275                 280                 285
Trp Ala Asn Thr Val Leu Ala Ser Asn Thr Ile Thr Tyr Ala Val Ile
    290                 295                 300
Ser Leu His His Gly Ala Gly Arg Ile Arg Gly Gly Val Ser
305                 310                 315

<210> 23143
<211> 68
<212> PRT
<213> A.fumigatus
```

<220>
<221> UNSURE
<222> (17)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23143
Val Ser His Ser Ile Phe Leu Asn Ile Tyr Ser Met Glu Gly Leu Ile
1 5 10 15
Xaa Ser Arg Leu Leu Phe Ser Arg Glu Thr Gly Tyr Leu Val Ile Pro
20 25 30
Gly Phe Leu Ser Pro Glu Asp Ile Thr Ser Leu Leu Thr Glu Thr Asn
35 40 45
Lys Leu Leu Asp Asp Phe Pro Leu Arg Ile Pro Pro Thr His Gln Ile
50 55 60
His His Trp Arg
65

<210> 23144
<211> 254
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (201)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23144
Glu Ser His Pro Leu Thr Lys Phe Thr Thr Gly Asp Asp Glu Thr Asp
1 5 10 15
Lys Asn Asn Thr His Val Gly Asp Asp Tyr Phe Leu Thr Ser Gly Asp
20 25 30
Lys Ile Arg Phe Phe Phe Glu Pro Glu Ala Phe Ser Ser Thr Leu Asp
35 40 45
Pro Ala Thr Gly Lys Pro Thr Leu Leu Lys Pro Lys Gln Gln Ala Ile
50 55 60
Asn Lys Ile Gly His Ala Leu His Ser Leu Ser Ser Pro Phe Glu Lys
65 70 75 80
Val Ser Leu Ser Ala Arg Asn Ala Ala Ile Ala Lys Ser Leu Gly Phe
85 90 95
Val Asp Pro Arg Val Leu Gln Ser Met Val Ile Cys Lys Gln Pro Gly
100 105 110
Ile Gly Gly Ala Val Pro Pro His Arg Asp Ser Glu Phe Leu Tyr Thr
115 120 125
Arg Pro Pro Ser Ala Val Gly Trp Trp Phe Ala Leu Gln Asp Ala Gly
130 135 140
Pro Gly Asn Ala Thr Leu Gly Met Trp Lys Gly Ser His Arg Gln Gly
145 150 155 160
Ile Lys Arg Arg Phe Val Arg Lys Val Gly Glu Asn Gly Lys Val Leu
165 170 175
Gly Thr Glu Phe Val Glu Asn Asp Gly Pro Lys Met Pro Arg Gly Ala
180 185 190
Glu Gly Asp Gly Gln Asp Pro Asp Xaa Gly Pro Asp Val Lys Asp Glu
195 200 205
Lys Phe Glu Ile Leu Asp Ile Met Ala Gly Ser Leu Val Leu Ile His
210 215 220

```
Gly Asn Val Leu His Met Ser Glu Lys Lys Tyr Ser Pro Arg Asn Pro
225                 230                 235                 240
Val Ala Tyr Ser Phe His Val Leu Glu Gly Ala Asp Arg Met
                245                 250
```

<210> 23145
<211> 288
<212> PRT
<213> A.fumigatus

<400> 23145

```
Arg Ser Asp Glu Pro Ser Glu Gln Asp Leu Lys Pro Arg Pro Gly Thr
1               5                   10                  15
Ser Ala Leu Phe Asp Ser Phe Ala Tyr Leu Gly Ser Gly Glu Thr Lys
            20                  25                  30
Trp Ser His Thr Leu Val Gly Trp Thr Gly Asp Val Glu Thr Ile Gln
        35                  40                  45
Asp Val Ser Val Pro Leu Gln His Ile Pro Val Ser Ser Gly Ala Arg
    50                  55                  60
Leu Pro Pro Ala Leu Asn Gly Val Ala Val Pro Leu Asn Lys Ala Ala
65                  70                  75                  80
Gly Pro Val Ala Val Asp Ser Lys Gln Arg Pro Pro Ser His Pro Leu
                85                  90                  95
Leu Glu Arg Phe Arg Val Ser Gln Glu Asp Arg Ala Arg Leu Asp Ala
            100                 105                 110
Gln Leu Ser Ser Gly Arg Tyr Gly Glu Ile Ala Pro Val Trp Leu Ser
        115                 120                 125
Asp Glu Ser Glu Glu Pro Glu Glu Ser Ser Ile Phe Leu Glu Asp Gln
    130                 135                 140
Gly Arg Trp Arg Arg Tyr Ala Glu Lys Glu Leu Tyr Pro Leu Leu His
145                 150                 155                 160
Tyr Lys Gln His Gly Pro Thr Asp Gly Arg Ser Glu Arg Lys Trp Trp
                165                 170                 175
Gly Asp Tyr Val Arg Met Asn Arg Leu Phe Ala Asp Arg Ile Ile Glu
            180                 185                 190
Glu Tyr Gln Glu Gly Asp Ile Val Trp Ile His Asp Tyr His Leu Phe
        195                 200                 205
Leu Leu Pro Ser Leu Leu Arg Gln Arg Ile Pro Asn Ile Tyr Ile Gly
    210                 215                 220
Phe Phe Leu His Ala Pro Phe Pro Ser Ser Glu Phe Met Arg Cys Leu
225                 230                 235                 240
Ala Lys Arg Lys Glu Val Leu Thr Gly Val Leu Gly Ala Asn Met Ile
                245                 250                 255
Gly Phe Gln Thr Phe Ser Tyr Ser Arg His Phe Ser Ser Cys Cys Thr
            260                 265                 270
Arg Val Leu Gly Phe Asp Ser Asn Asn Ala Gly Val Asp Ala Tyr Gly
        275                 280                 285
```

<210> 23146
<211> 259
<212> PRT
<213> A.fumigatus

<400> 23146

```
Ala Pro His Val Arg Thr Phe Leu Ala Tyr Gly Pro Lys His Arg Asp
1               5                   10                  15
```

```
Ser Trp Arg Phe Arg Pro Leu Pro Asp Asp Gly Lys Leu Asp Ile Gln
            20                  25                  30
Glu Trp Asn Lys Gln Leu Val Gln Leu Ala Ser Ala Val Gly Pro Thr
        35                  40                  45
Val Leu Gly Ser Leu Ala Ser Ala Thr Cys Thr Gly Thr Thr Val Ala
    50                  55                  60
Ala Lys Ile Arg Ser Arg Asn Cys Ala Glu Ser Pro Ser Arg Ser Ile
65                  70                  75                  80
Gln Arg Met Leu Asn Ser Ser Lys His Trp Gln Asn Tyr Asp Val Phe
                85                  90                  95
Lys Arg Gln Lys Asp Ser Thr Phe Val Lys Ser Arg Ala Ala Val Glu
            100                 105                 110
Glu Leu Ala Ser Arg Tyr Met Gln Ile Val Ala Asp Thr Arg Leu Ala
        115                 120                 125
Gln Asp Glu Ser Lys Glu Ala Ala Gln Lys Leu Leu Phe Ile Glu Met
    130                 135                 140
Thr Glu Ile Ala Leu Trp Gly Asn Ala Thr Asp Leu Ser Leu Leu Ala
145                 150                 155                 160
Asn Leu Thr Leu Glu Asp Leu Gln Asn Leu Gln Gly Arg Glu Ala Ile
                165                 170                 175
Gln Lys Ser Gln Arg Asn Ile Val Asp Asn Asp Thr Asp Asp Val Trp
            180                 185                 190
Ala Tyr Leu Gln Arg Thr Ala Gly Gln Thr Arg Arg Gln Ile Asp Ile
        195                 200                 205
Ile Leu Asp Asn Ala Gly Phe Glu Phe Phe Thr Asp Val Leu Tyr Ala
    210                 215                 220
Ala Tyr Leu Leu Glu Ala Gly Ile Ala Thr Ser Ile Arg Leu His Thr
225                 230                 235                 240
Lys Glu Phe Pro Trp Phe Val Phe His His Arg Gly Pro Lys Asp Pro
                245                 250                 255
Arg Tyr Ala
```

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<210> 23147
<211> 125
<212> PRT
<213> A.fumigatus

<400> 23147

```
Leu Ala Asn Ile Val Ala Ile Thr Phe Leu Gln His Thr Asp Pro Thr
1               5                   10                  15
Leu Pro His Tyr Gln Pro Glu Ala Trp Asp Phe Thr Arg Gly Ala Ala
            20                  25                  30
Ala Thr Ile Asp Arg Asp Phe Gly Phe Val Gly Arg His Ile Phe His
        35                  40                  45
Gly Ile Ile Glu Thr His Val Leu His His Tyr Val Ser Thr Ile Pro
    50                  55                  60
Phe Tyr His Ala Asp Glu Ala Ser Glu Ala Ile Gln Lys Val Met Gly
65                  70                  75                  80
Pro His Tyr Arg Ser Glu Ala His Thr Gly Trp Thr Gly Phe Leu Lys
                85                  90                  95
Ala Leu Trp Thr Ser Ala Arg Thr Cys Gln Trp Val Glu Pro Thr Glu
            100                 105                 110
Gly Ala Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg Ser
        115                 120                 125
```

<210> 23148
<211> 207
<212> PRT
<213> A.fumigatus

<400> 23148
Trp Gly Phe Ile Ala Gly Pro Ser Thr Pro Gly Glu Asp Trp Lys Ile
1 5 10 15
Ser His Gly Lys His His Lys Ala Thr Gly Asn Ile Ala Arg Asp Met
20 25 30
Val Phe Val Pro Lys Thr Arg Glu Glu Tyr Ala Thr Arg Ile Gly Arg
35 40 45
Ala Ala His Glu Leu Ser Glu Leu Met Glu Glu Thr Pro Ile Leu Thr
50 55 60
Ala Thr Asn Leu Val Leu Gln Gln Leu Phe Gly Trp Pro Met Tyr Leu
65 70 75 80
Leu Thr Asn Val Thr Gly His Asn Asn His Glu Arg Gln Pro Glu Gly
85 90 95
Arg Gly Lys Gly Lys Arg Asn Gly Tyr Phe Gly Gly Val Asn His Phe
100 105 110
Asn Pro Ser Ser Pro Leu Tyr Glu Ala Lys Asp Ala Lys Leu Ile Val
115 120 125
Leu Ser Asp Leu Gly Leu Phe Leu Val Gly Ser Leu Leu Tyr Tyr Ile
130 135 140
Gly Ser Thr Tyr Gly Trp Leu Asn Leu Leu Val Trp Tyr Gly Ile Pro
145 150 155 160
Tyr Leu Trp Val Asn His Trp Leu Gly Lys Leu Leu Ser Ser Thr Phe
165 170 175
Leu Ala Ala Trp Asn Arg Phe Leu Leu Thr Cys Lys Tyr Ser Cys His
180 185 190
His Phe Pro Ser Ala His Arg Pro His Pro Pro Pro Leu Pro Ala
195 200 205

<210> 23149
<211> 170
<212> PRT
<213> A.fumigatus

<400> 23149
Glu Asp Val Thr Ile Phe Met Ile Ser Gly Asn Pro Gly Leu Ile Gly
1 5 10 15
Tyr Tyr His Thr Phe Leu Ser Leu Leu Ala Asp Lys Leu Gly Ser Arg
20 25 30
Gly Ala Pro Ser Thr Ile Gln Ser Arg Ser His Thr Cys Glu Phe Gln
35 40 45
Ile Tyr Gly His Ser Leu Gly Gly Phe Glu Leu Glu Gln His Glu Asp
50 55 60
Leu Asp Gly Arg Lys Arg Leu Phe Asp Leu Glu Asp Gln Ile Cys Tyr
65 70 75 80
Val Gln Glu Lys Leu Asp Glu Phe Leu Ala Gly Gly Glu Thr Lys Gln
85 90 95
Lys Val Ile Leu Val Gly His Ser Val Gly Ala Tyr Ile Ala Met Glu
100 105 110
Ile Leu Arg Arg His Arg Glu Arg Ser Asp Ala Lys Val Arg Ala Gly
115 120 125
Ala Asp Lys Ala Asp Phe Asp Ile Val Gly Gly Ile Met Leu Phe Pro

```
    130                 135                 140
Thr Val Val Asp Ile Ala Lys Ser Pro Ser Gly Gln Lys Leu Thr Val
145                 150                 155                 160
Ser Phe Leu Pro Arg Phe Thr Val Gln Tyr
                165                 170
```

<210> 23150
<211> 93
<212> PRT
<213> A.fumigatus

<400> 23150

```
Cys Val Lys Gly Ala Ser Asn Gly Arg Arg His Met Ala Ser Asp Glu
1               5                   10                  15
Met Gln Thr Ile Thr Ser Asp Lys Trp Gly Asp Asp Val Trp Gly Val
            20                  25                  30
Ser Thr Ala Ser Glu Pro Leu Thr Arg Leu Phe Phe Tyr Phe Gly Arg
        35                  40                  45
Asn Asp His Trp Val Ala Glu Arg Thr Arg Asp Glu Ile Ile Asp Leu
    50                  55                  60
Arg Gly Arg Val Glu Gly Gly Pro Thr Met Ser Val Cys Glu Leu Gly
65                  70                  75                  80
Leu Pro His Ala Phe Cys Leu Ser Glu Trp Phe Ser Gly
                85                  90
```

<210> 23151
<211> 109
<212> PRT
<213> A.fumigatus

<400> 23151

```
Ser Lys Leu Tyr Ala Ile Arg Ala Ile Leu Thr Gln Glu Leu Phe Asn
1               5                   10                  15
Ala Pro Phe Ser Asp Ser Leu Lys Met Leu Phe Ile Gly Thr Ala Thr
            20                  25                  30
Thr Pro Asn Asn Leu His Ile Arg Asn Gln Arg Gln His Ala Leu Lys
        35                  40                  45
Pro Ile Arg Lys Asp Arg Asn Ile Pro Pro Ile Lys Ser Leu Thr Ile
    50                  55                  60
Ile Gln Leu Ile Met Ala Leu Gln Ala Arg Ile Pro Leu Asp Gln Pro
65                  70                  75                  80
Asn Ser Pro Ala His Ile Leu Arg Asp Ile Ala Gln Arg Arg Ser Asn
                85                  90                  95
Pro Gln Tyr Ser His Ser Ser Glu Asp Pro Thr Ala Leu
            100                 105
```

<210> 23152
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23152

```
Ile Asn Ala Leu Glu Phe Glu Cys Met Pro Lys Ser Ala Phe Tyr Trp
1               5                   10                  15
Ile Val Asn Pro Ser His Pro Trp Asn Leu Arg Leu Ile Ser Phe Asp
            20                  25                  30
```

```
Phe Met Phe Pro Tyr Leu His Tyr Arg Gln Ser Val Asp Asn Gly Leu
        35                  40                  45
Thr Ser Leu Tyr Phe Thr Gly Ile Ser Ala Phe Tyr Pro Ser Val Phe
    50                  55                  60
Thr Thr Gly Leu Asp Gly Pro Ala Leu Lys Lys
65                  70                  75
```

<210> 23153
<211> 168
<212> PRT
<213> A.fumigatus

<400> 23153

```
Gln Leu Thr Ala Asp Leu Thr Asp Cys Leu Thr Phe Leu Asp Lys Phe
1               5                   10                  15
Ile Lys Glu Thr Gln Arg Arg His Asn Pro Ser Tyr Gln Pro Gly Arg
            20                  25                  30
Thr Ala Lys Val Asp Met Ile Leu Pro Gly Gly Tyr Lys Leu Pro Gln
        35                  40                  45
Asp Ser Val Val Ile Gly Ala Leu His His Leu His Asn Asn Pro Asp
    50                  55                  60
Val Trp Ser Asn Pro Ala Arg Phe Asp Pro Asp Arg Trp Asp Thr Glu
65                  70                  75                  80
Glu Val Lys Asn Arg His Lys Thr Ala Tyr Ile Pro Phe Ala Thr Gly
                85                  90                  95
Pro Arg Met Cys Ile Gly Phe Asn Phe Ala Leu Gln Glu Val Lys Val
            100                 105                 110
Phe Leu Pro Lys Leu Val Tyr Arg Tyr Lys Phe Thr Arg Glu Asn Asp
        115                 120                 125
Gly His Ile Glu Tyr Asp Pro Met Phe Gln Leu Ile Arg Pro Thr Asn
    130                 135                 140
Leu Tyr Val Arg Ala Glu Arg Arg Val Lys Trp Pro Pro Arg Ser Asp
145                 150                 155                 160
Asn Ala Val Pro Ser Pro Ser Leu
                165
```

<210> 23154
<211> 108
<212> PRT
<213> A.fumigatus

<400> 23154

```
Lys Gln Glu Arg Trp Cys Pro Ser Ala Ser Pro His Ile Trp His Ser
1               5                   10                  15
Pro Val Leu His Asp Gly Met Trp Glu Asp Glu Ala His Ala Met Ile
            20                  25                  30
Asn Asn Ile Ile Thr Pro Ile Thr Pro Ile Ile Gly Leu Asn Pro Thr
        35                  40                  45
Asn Ile Cys Ser Ser Leu Ser His Glu Gly Leu Val Leu Asn Ile Lys
    50                  55                  60
Gly Asn Gln Gly Leu His Leu Arg Cys Ser Val Val His Leu Ser Lys
65                  70                  75                  80
Asn Asn Gln Ser Thr Pro Lys Tyr Leu Leu Ile Asn Asn Ser Ala Leu
                85                  90                  95
Ala His Thr Glu Tyr Ser Ala Asp Thr Ser Ile Leu
            100                 105
```

<210> 23155
<211> 149
<212> PRT
<213> A.fumigatus

<400> 23155
Pro Asn Ala Gly His Ser Gln Ser Trp Ser Val Pro Ala Val Pro Pro
1 5 10 15
Arg Pro Pro Leu Glu Ala Gln Gln Phe Gly Asn Gly Ala Pro Ser His
20 25 30
Tyr Arg Phe Gln Tyr Ser Ala Cys Thr Gly Arg Arg Arg Ala Leu Leu
35 40 45
Ile Gly Ile Asn Tyr Ile Gly Gln Pro Asn Gln Leu Arg Gly Cys Ile
50 55 60
Asn Asp Val Thr Asn Met Ser Thr Leu Leu His Glu Arg Tyr Gly Tyr
65 70 75 80
Arg Arg Glu Asp Met Val Ile Leu Thr Asp Asp Gln Lys Asn Pro Leu
85 90 95
Ser Ile Pro Thr Lys Ala Asn Ile Leu Arg Ala Met Gln Trp Leu Val
100 105 110
Lys Asp Ala Gln Pro Asn Asp Ser Leu Phe Leu His Phe Ser Gly Gly
115 120 125
Trp Leu Trp Val Cys Thr Leu Arg Gly Asp Thr Glu Val Leu Arg Ala
130 135 140
Trp Arg Ala Asn Ser
145

<210> 23156
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23156
Gln Asp Val Trp Met Leu Gln Ser Ser Ser Arg Ser Asp His Leu Ile
1 5 10 15
Glu Arg Ile Pro Gln Lys Gln Thr Ser Lys Pro Thr Ser Asp Ile Leu
20 25 30
Phe Phe Pro Leu His Asp Ile Arg Asn Lys Ala Arg Arg Arg Lys Gly
35 40 45
Leu Leu Ile Leu Glu Thr Leu Ala Tyr Glu Leu Gln Thr Asn Arg Gly
50 55 60
Ser Leu Ile Pro Leu Met Thr Ile Leu Gly Pro Leu Ala Arg Ile Asn
65 70 75 80
Leu Ala Pro Gly Ala Ile Pro Pro
85

<210> 23157
<211> 195
<212> PRT
<213> A.fumigatus

<400> 23157
Leu Gly Val Thr Arg Val Asp Asn Thr Ile Asn Asn Asp Leu Gly Ala
1 5 10 15
Ala Arg Ile Ile Asn Gly Thr Thr Val Glu Val Glu Met Pro Ser Glu

```
            20                  25                  30
Gln Leu Asp Ile Asp Ser Gly Tyr Asp Ala Ala Leu Arg Asn Leu Arg
        35                  40                  45
Asp Arg Leu Glu Val Pro Pro Pro Pro Val Ser Glu Asn His Gln Gln
    50                  55                  60
Glu Asp Tyr Tyr Arg Ala Val Arg Thr Cys Met Val Ser Ile Trp Met
65                  70                  75                  80
Val Ala Asn Val Ile Leu Ala Met Ser Val Ser Glu Ile Tyr Gly Val
                85                  90                  95
Asp Ser Gly Gly Thr Asn Val Tyr Leu Gly Ile Ile Leu Trp Ser Val
            100                 105                 110
Ala Val Leu Ala Leu Ile Arg Ala Val Gly Ser Thr Thr Tyr Ala Ile
        115                 120                 125
Leu Leu Val Val Gln Lys Ile Val Glu Gly Lys Thr Lys Phe Asp Ala
    130                 135                 140
Gly Asn Ile Val Asn Ser Asn Ala Ala Thr Ser Ser Tyr Val Ser Ser
145                 150                 155                 160
Arg Ser Thr Ala Gln Tyr Gly Gly Gly Thr Ser Phe Lys Asp Lys Val
                165                 170                 175
Thr Glu Ala Gly Trp Thr Leu Lys Arg Thr Ala Gly Lys Ala Met Phe
            180                 185                 190
Trp Lys Lys
        195
```

<210> 23158
<211> 63
<212> PRT
<213> A.fumigatus

```
<400> 23158
Gly Gly Tyr Arg Pro Arg Ser Glu Val Asp Ala Arg Glu Trp Ala Lys
1               5                   10                  15
Tyr Arg His Glu Arg Tyr Glu Gly Ala Pro Ile Gly Leu Gln Leu Val
            20                  25                  30
Gly Lys Arg Phe Lys Asp Glu Glu Thr Leu Ala Ala Ala Gly Leu Val
        35                  40                  45
Ser Asp Ile Val Gln Gly Lys Glu Glu Asp Ile Arg Ser Arg Leu
    50                  55                  60
```

<210> 23159
<211> 233
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (72),(76),(80),(98)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23159
Asp Lys Thr Val Pro Ile Val Phe Leu Pro Val Trp Val Leu Val Thr
1               5                   10                  15
Gln Glu Pro Ile Lys Leu Arg Ser Lys Leu Leu Asn Ile Phe Leu Gly
            20                  25                  30
Gly Arg Glu Thr Pro Ala Ser Leu Leu Ser Trp Thr Val Leu Met Leu
        35                  40                  45
```

Ala Arg His Arg Ala Glu Phe His Lys Leu Arg Gln Thr Ile Val Asp
50 55 60
Glu Phe Gly Thr Tyr Asp Gln Xaa Arg Asn Ile Xaa Phe Ala Ala Xaa
65 70 75 80
Lys Ser Cys Gln Tyr Leu Gln Tyr Cys Leu Asn Glu Thr Leu Arg Leu
85 90 95
Phe Xaa Val Val Pro Gly Asn Arg Arg Ser Ala Thr Arg Asp Thr Thr
100 105 110
Leu Pro Arg Gly Gly Gly Ser Asp Gly Thr Gln Pro Ile Tyr Ile Arg
115 120 125
Lys Gly Gln Thr Val Val Tyr Asn Val His Ile Leu His Arg Arg Lys
130 135 140
Asp Ile Trp Gly Pro Asp Ala Glu Glu Phe Lys Pro Ser Arg Trp Val
145 150 155 160
Asp Arg Lys Val Gly Trp Asp Tyr Val Pro Phe Asn Gly Gly Pro Arg
165 170 175
Ile Cys Ile Gly Gln Gln Phe Ala Leu Thr Glu Ala Gly Tyr Val Leu
180 185 190
Val Arg Leu Leu Gln Arg Phe Asp Ala Ile Glu Asp Val Gln Pro His
195 200 205
Leu Glu Ile Arg His Ser Leu Asn Leu Thr Ser Ala Pro Ala Asp Asn
210 215 220
Val Thr Val Arg Leu Arg Glu Ala Ala
225 230

<210> 23160
<211> 162
<212> PRT
<213> A.fumigatus

<400> 23160
Pro Leu Asn Val Thr Asp Ser Asp Leu Thr Ala Asp Met Val Gln Pro
1 5 10 15
Pro Ala Glu Arg Asp Gly Ala Thr Glu Met Thr Leu Ser Leu Ile Gly
20 25 30
Phe Glu Ser Ile Ser Ile Val Arg Lys Val Ser Phe Ile Pro Pro Arg
35 40 45
His Arg Gln Val Arg Thr Thr Ser Ser Ala Ser Val Thr Glu Leu Ser
50 55 60
Leu Pro Lys Arg Glu Ala Leu Ala Glu Gln Leu Gln Ser Arg Leu Glu
65 70 75 80
Thr Arg Tyr Leu Ala Tyr Cys Asp Pro Ala Asp Pro Phe Leu Phe Val
85 90 95
Ser Ala Thr Val Ala Arg Leu Ile Ile Ala Arg Val Trp Leu Met Val
100 105 110
His Tyr Pro Cys Lys Arg Ala Asp Ser Lys Gly Val Ser Ala Ala Leu
115 120 125
Leu Gln Ala Ser Leu Gln Asp Lys Ile Phe His Leu Ala Ile Glu Ile
130 135 140
Leu Glu Arg Ser Cys Ser Val Leu Cys Asn Leu Ser Ile Ala His Trp
145 150 155 160
Ala Trp

<210> 23161
<211> 237

<212> PRT
<213> A.fumigatus

<400> 23161
Asp Glu His Arg Arg Asp Ser Ala Glu Ser Arg Pro Gly Glu Gln Met
1 5 10 15
Ser Arg Ile Arg Arg Ser Leu His Arg Thr Leu Arg Asp Ser His His
20 25 30
Gly Gln Gln Gly His Asn Ala Arg Gly Lys Lys Gln Arg Asp Ser Met
35 40 45
Ser Ser Glu Val Val Pro Glu Asp Glu Gln Asp Thr Lys Glu Gly Glu
50 55 60
Gly Leu Ser Arg Lys Ala Pro Gln Phe Thr Val His Gly Lys Lys Ala
65 70 75 80
Ser Ile Val Thr Phe Gly Ser Glu Trp Gln Asn Met Thr Pro Glu Glu
85 90 95
Arg Leu Arg Leu Arg Lys Pro Thr Pro Ser Glu Glu Pro Arg Ala Ser
100 105 110
Asp Pro Ala Ile Leu Ser Gly Gly Asp Ser Asn Gly Thr Glu Pro Ile
115 120 125
Asn Pro Gly Ile Ser Gln Ser Leu Arg Ser Gly Ser Thr Ala Thr Arg
130 135 140
Ile Ser Ile Leu Asp Pro Val Glu Ser Glu Gly Cys Arg Asp Gly Asn
145 150 155 160
Pro Thr Ala Asn Leu Glu Asp Thr Met Val Lys Ser Asp Pro Asn Ile
165 170 175
Asp Leu Ser Ser Arg Leu Pro Thr Ser Asp Gly Ala Gly Pro Ser Thr
180 185 190
Ala Ala Phe Pro Gly Ser Ser Val Leu Pro Lys Asp Gln Pro Ser Ser
195 200 205
Pro Ser Thr Ser Ala Asp Glu Ala Ala Val Asp Glu Tyr Thr Ile Gln
210 215 220
Lys Leu Gln Ser Ser Pro Pro Glu Gln Ala Val His Ala
225 230 235

<210> 23162
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (82)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23162
Trp Arg Trp Ala Val His Arg Gly Ile Ser Gly Ile Ile Gly Ile Ala
1 5 10 15
Gln Arg Ser Ala Val Val Pro Phe Asp Ile Arg Arg Arg Gly Ser Cys
20 25 30
Arg Arg Ile Tyr Asp Pro Lys Thr Ala Val Glu Pro Thr Arg Ala Ser
35 40 45
Cys Thr Cys Ile Lys Ser Ile Leu Lys Thr Ile Thr Ser Ile Tyr Asp
50 55 60
Phe Leu Pro Asp Ser Phe Gln Phe Phe Leu Ser Leu Cys Phe Gly Val
65 70 75 80

Asp Xaa Arg Arg Leu Lys Asn Ser Phe Arg Pro Gln Tyr Ala
85 90

<210> 23163
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23163
Pro Arg Arg Asp His His Gly Arg Ile Leu Ser Ile Ser Glu Trp Met
1 5 10 15
Gly Tyr Phe Leu Leu Tyr Glu Ser Met Leu Asp Thr Val Leu Tyr Ala
20 25 30
Arg Asp Arg Tyr Leu Ala Pro Gly Gly Lys Ile Phe Pro Asp Lys Ala
35 40 45
Thr Met Tyr Leu Ala Ala Ile Glu Asp Gly Glu Tyr Lys Asp Asp Lys
50 55 60
Ile Gly Cys Glu Ser Ser Leu Ala Tyr Val Arg Leu Leu Lys Glu Tyr
65 70 75 80

<210> 23164
<211> 161
<212> PRT
<213> A.fumigatus

<400> 23164
Leu Gly Ile Val Trp Asp Asn Val Tyr Gly Phe Asp Tyr Ser Pro Met
1 5 10 15
Lys Glu Ile Ala Leu Thr Glu Pro Leu Val Asp Thr Val Glu Leu Lys
20 25 30
Ala Leu Val Thr Asp Pro Cys Ser Ile Ile Thr Phe Asp Leu Tyr Thr
35 40 45
Val Thr Lys Ala Asp Leu Ser Phe Lys Val Pro Phe Ser Leu Pro Val
50 55 60
Lys Arg Ser Asp Phe Ile His Ala Ile Ile Ala Trp Phe Asp Ile Asp
65 70 75 80
Phe Thr Ala Cys His Lys Pro Ile Ser Phe Ser Thr Gly Pro His Ala
85 90 95
Lys Tyr Thr His Trp Lys Gln Thr Val Phe Tyr Leu Arg Asp Val Leu
100 105 110
Thr Val Glu Glu Glu Glu Cys Val Ser Gly Ile Leu Glu Asn Lys Pro
115 120 125
Asn Asp Lys Asn Pro Arg Asp Leu Asp Ile Gln Ile Ser Tyr Lys Leu
130 135 140
Glu Thr Thr Asp Lys Leu Arg Tyr Asp Glu Gly Ser Cys Phe Tyr Arg
145 150 155 160
Met

<210> 23165
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23165
Arg Leu Pro Val Val Glu Asn Gly Ile Pro Val Asp Val Ile Leu Arg

```
1               5                   10                  15
Ser Ala Arg Tyr Ala Tyr Asp Asn Thr Pro Asp Cys Glu Ser Arg Leu
            20                  25                  30
Arg Ala His Tyr Leu Ala Met Ile Ile Arg Ala Arg His Ile Phe Lys
        35                  40                  45
Ser Ser Gly Thr Met Gln Phe Asp Met Glu Met Gly His Arg Phe Tyr
    50                  55                  60
Phe Asp Leu Phe Val Val Met Cys Asn His Met Asp Asp Leu Glu Gly
65                  70                  75                  80
Leu Glu
```

<210> 23166
<211> 65
<212> PRT
<213> A.fumigatus

<400> 23166

```
Ser Asn Arg Phe Leu Leu Ser Asp Thr His Ser Trp Phe Leu Arg Gly
1               5                   10                  15
Gly Pro Val Cys Gly Leu Ser Asn Pro Trp Phe Tyr His Phe Leu Ile
            20                  25                  30
Leu Leu Ala Cys Arg Val Ala Cys Phe Val Tyr Ser Asp Val Thr Phe
        35                  40                  45
Leu Lys Ala Val Phe His Leu Arg Gly Trp Lys Val Arg Asp Ser Arg
    50                  55                  60
Asp
65
```

<210> 23167
<211> 93
<212> PRT
<213> A.fumigatus

<400> 23167

```
Ser Ser Tyr Glu Arg Val Lys Ser Gly Leu Trp Ala Gly Ser Glu Trp
1               5                   10                  15
Val Ala Trp Gly Thr Gln Asn Arg Glu Ala Pro Val Arg Lys Ile Glu
            20                  25                  30
Pro Gly His Trp Glu Leu Lys Ser Leu Asp Gly Leu Ala Asn Met Tyr
        35                  40                  45
Val Ala Met Ala Ala Phe Leu Gly Ala Gly Tyr Leu Gly Leu Glu His
    50                  55                  60
Lys Ile Pro Leu Thr Val Lys Asp Cys Leu Cys Met Leu Pro Leu Leu
65                  70                  75                  80
Ser Ser Ser Phe His Tyr Met Lys Leu Pro Asp Gly Tyr
                85                  90
```

<210> 23168
<211> 77
<212> PRT
<213> A.fumigatus

<400> 23168

```
Ala Asp Asp Ala Ala Thr Leu Thr Asp Ala Gln Arg Glu Asp Leu Gly
1               5                   10                  15
```

```
Ile Thr Thr Arg Leu Pro Asn Thr Leu Ala Gln Ser Leu Asp Ala Leu
            20                  25                  30
Glu Ser Asp His Ala Leu Gln Glu Leu Leu Gly Pro Phe Leu Val Arg
        35                  40                  45
Ser Tyr Val Ile Val Lys Arg Ala Glu Ser Lys Lys Leu Ala Ala Met
    50                  55                  60
Gly Asp Glu Glu Arg Arg Lys Trp Leu Ile Glu Arg Tyr
65                  70                  75
```

<210> 23169
<211> 285
<212> PRT
<213> A.fumigatus

<400> 23169

```
Gly Val Arg Phe Leu Pro Gly Pro Trp Cys Arg Gln Ala Leu Met Gln
1               5                   10                  15
Thr Thr Leu Phe Glu Thr Phe Arg Lys Gln Asp Thr Ser Ser Pro Leu
            20                  25                  30
Ala Lys Arg Gln Met Lys Ile Phe Phe Phe Ser Leu Leu Gly Met Thr
        35                  40                  45
Leu Trp Gln Phe Leu Pro Glu Tyr Val Phe Pro Phe Thr Ser Ser Leu
    50                  55                  60
Ala Phe Leu Cys Trp Val Ala Pro Arg Asn Pro Val Ala Asn Phe Ile
65                  70                  75                  80
Gly Ser Gly Met Gly Gly Met Gly Phe Leu Asn Leu Ser Leu Asp Trp
                85                  90                  95
Ser Asn Ile Asn Trp Asn Gly Ser Ser Ile Leu Leu Thr Pro Trp Trp
            100                 105                 110
Thr Gln Val Val Leu Phe Leu Ala Phe Ala Phe Asn Cys Trp Val Leu
        115                 120                 125
Leu Pro Ala Ala Lys Trp Gly Asn Leu Gly Ser Tyr Lys His Gly Leu
    130                 135                 140
Met Ser Asn Ser Leu Leu Thr Thr Asn Gly Thr Lys Tyr Pro Ile Leu
145                 150                 155                 160
Asp Leu Leu Thr Pro Asp Phe Arg Leu Asn Gln Thr Ala Tyr Glu Glu
                165                 170                 175
Ile Gly Pro Met Tyr Met Gly Leu Gln Asn Val Trp Ala Thr Phe Phe
            180                 185                 190
Glu Tyr Ala Lys Val Thr Ala Ser Val Ala Trp Val Ala Thr Tyr Gly
        195                 200                 205
Tyr Ser Gln Val Lys Gly Asn Leu Leu Lys Met Phe Arg Ser Arg Asn
    210                 215                 220
Lys Thr Ser Gln Thr Lys Gly Glu Gly Ile Asn His Gln Tyr Thr Asp
225                 230                 235                 240
Arg Leu Asn Val Leu Gln Arg Ser Tyr Gln Glu Val Pro Leu Trp Cys
                245                 250                 255
His Leu Val Met Phe Met Ala Gly Phe Ile Ile Leu Ile Val Ser Ile
            260                 265                 270
Ala Cys Gly Ser Ser Arg Thr Gly Arg Lys Asp Asn Ala
        275                 280                 285
```

<210> 23170
<211> 159
<212> PRT
<213> A.fumigatus

<400> 23170
Trp Leu Asn Glu Arg Arg Gln Thr Glu Leu Gly Ala Tyr Tyr Asn Gln
1 5 10 15
Arg Leu Phe Ser Ser Ala Arg Ile Ala Ile Ile Leu Lys Gln Leu Ala
20 25 30
Gln Ile Val Gln Asn Ala Ser Asn Asn Pro Gly Glu Ala Ile Gly Arg
35 40 45
Ile Asp Phe Met Thr Asp Asp Gln Arg Ser Leu Leu Pro Asp Pro Thr
50 55 60
Ser Asp Leu His Trp Ser Asn Phe Arg Gly Ala Ile His Asp Ile Phe
65 70 75 80
Ala Gln Asn Ala Glu Lys His Pro Asp Lys Leu Cys Val Val Glu Thr
85 90 95
Lys Ser Glu Gln Ser Pro His Arg Glu Phe Thr Tyr Arg Gln Ile Asn
100 105 110
Glu Ala Ser Asn Ile Leu Gly His His Leu Val Arg Ala Gly Ile Glu
115 120 125
Arg Gly Asp Val Val Met Val Tyr Ala Tyr Arg Gly Val Asp Leu Val
130 135 140
Val Ala Val Met Gly Ile Leu Lys Ala Gly Ala Thr Phe Ser Val
145 150 155

<210> 23171
<211> 191
<212> PRT
<213> A.fumigatus

<400> 23171
Thr Gln Tyr Thr Arg Glu Phe Arg Thr Gly Tyr Val Glu Ala Ala Ile
1 5 10 15
Asp Tyr Phe Cys Leu Leu Cys Leu Asn Ala Asp Leu Pro Gly Ser Leu
20 25 30
Gly Lys Ser Gln Ala Ser Val Cys His Glu Ala Leu Arg Glu Phe Val
35 40 45
Leu Glu Thr Arg Asp Phe Ala Lys Leu Leu Gly Asp Ile Arg Ser Asp
50 55 60
Gly Thr Arg Ile Lys Gly Leu Ile Glu Gln Arg Met Ser Leu Ile Lys
65 70 75 80
Leu Val Asp Gln Glu Glu Phe Leu Lys Thr Ile Thr Ile Gln Ala Ala
85 90 95
Ala Ile Ala Asp Asp Lys Gly Leu Val Thr Asp Ala Val Leu Leu Tyr
100 105 110
His Leu Ala Glu Asp Tyr Asp Arg Val Ile Asp Ile Ile Asn Arg Ala
115 120 125
Leu Ser Asp Ala Val Ala Leu Glu Leu Gly Ser Pro Gly Met Lys Leu
130 135 140
Gln Pro Leu Arg Pro Arg Thr Asp Leu Gln Gln His Ala Asn Asp Glu
145 150 155 160
His Glu Glu Ala Val Glu Pro Gly Ser Ser Leu Ser Leu Thr Ala Val
165 170 175
Asp Asp Pro Val Val Leu Ala Lys Asn Met Ile Gly Leu Tyr Asn
180 185 190

<210> 23172
<211> 79

<212> PRT
<213> A.fumigatus

<400> 23172
Ala Met Pro Asp Thr Val Asp Pro Leu Ala Asp Thr Ala Phe Tyr Leu
1 5 10 15
Leu Leu Ser Gly Val Ile Ile Phe Asn Ser Leu Asn His Phe Val Ile
20 25 30
Arg Lys Glu Ser Val Asp Tyr Asp Thr Leu Leu Ser Tyr Asn Ile Phe
35 40 45
Ala Gly Ile Tyr Met Ala Leu Tyr His Arg Trp Lys Thr Thr Ala Gly
50 55 60
Gln Val Val Pro Asn Gln Pro Gln Arg Asn Gln Ser Gln His Ser
65 70 75

<210> 23173
<211> 135
<212> PRT
<213> A.fumigatus

<400> 23173
Ile Thr Ser Leu Phe Ala Lys Ser Arg Leu Ile Thr Thr Leu Cys Cys
1 5 10 15
Leu Thr Thr Ser Leu Leu Ala Ser Thr Trp Pro Ser Thr Ile Asp Gly
20 25 30
Lys Pro Leu Pro Asp Lys Trp Phe Gln Ile Ser Leu Asn Gly Thr Ser
35 40 45
Leu Asn Thr Arg Asp Val Ala Glu Ile Ala Glu Arg Thr Pro Ile Thr
50 55 60
Val Cys Glu Arg Thr Val Ile Ala Val Gly Gly Cys Val Gly Ile Ala
65 70 75 80
Ser Tyr Val Val Thr Phe Ala Arg Ser Ile Ala Thr Thr Ile Lys Asp
85 90 95
Leu Ser Asn Gly Gly Asn Cys Asn Ala Met His Gly Thr Phe Glu Gly
100 105 110
Leu Lys Trp Thr Tyr Tyr Ser Thr Gly Arg Asn Cys Asp Thr Thr Ala
115 120 125
Gln His Asp Thr Ile Ala Gly
130 135

<210> 23174
<211> 269
<212> PRT
<213> A.fumigatus

<400> 23174
Val Val Asn Arg Glu Arg Leu Asn Val Ser Glu Leu Glu Arg Gln Phe
1 5 10 15
Glu Arg Ile Tyr Gln Ile Ala Gln Arg Ala Pro Pro Val Gly Val Leu
20 25 30
Thr Val Ala Asn Arg Asp Leu Trp Ala Asp Ala Arg Lys Lys Leu Leu
35 40 45
Ala Ala Asn Pro Ala Asn Glu Gln Ala Leu Arg Asp Ile Glu Ser Ser
50 55 60
Gly Phe Val Val Cys Leu Asp Asp Ala Thr Pro Val Thr Leu Glu Glu
65 70 75 80

```
Arg Ala His Gln Tyr Trp His Gly Asp Gly Thr Asn Arg Trp Phe Asp
                85                  90                  95
Lys Pro Leu Gln Phe Ile Ile Asn Asp Asn Gly Thr Ala Gly Phe Met
            100                 105                 110
Gly Glu His Ser Met Met Asp Gly Ser Pro Thr His Arg Leu Asn Asp
        115                 120                 125
His Leu Asn Asn Leu Ile Phe Asn Asn Lys Ile Asp Leu Ser Glu Lys
    130                 135                 140
Pro Val Arg Ser Asn Leu Pro Asp Pro Arg Pro Ile Glu Phe His Leu
145                 150                 155                 160
Asn Ser Glu Val Leu Glu Ala Ile Asp Ala Ala Ser Lys Glu His Arg
                165                 170                 175
Gln Gln Met Ser Ala His Glu Leu Lys Val Gln Ser Tyr Gln Gly Tyr
            180                 185                 190
Gly Lys Gly Leu Ile Lys Lys Phe Lys Cys Ser Pro Asp Ala Tyr Val
        195                 200                 205
Gln Met Ile Ile Gln Leu Ala Tyr Phe Lys Met Tyr Gly Lys Asn Arg
    210                 215                 220
Pro Thr Tyr Glu Ser Ala Ser Thr Arg Lys Phe Gln Glu Gly Arg Thr
225                 230                 235                 240
Asp Thr Ile Arg Ser Val Ser Asp Glu Ser Val Ala Phe Cys Lys Ala
                245                 250                 255
His Ala Asp Pro Ser Val Pro Arg Gln Glu Val Val Arg
            260                 265
```

<210> 23175
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23175

```
Gln Glu Leu Val Arg Ser Thr Gly Ser Thr Ala Pro Val Ser Pro Ala
1               5                   10                  15
Glu Gly Ala Asp Asn Pro Gln Lys Asn Pro Ala Lys Glu Asp Glu Asn
            20                  25                  30
Ile Val Val Val Arg Lys Asn Gln Phe Phe Lys Gly Ala Leu Ser Cys
        35                  40                  45
Gln Pro Gly Ala Ser Gln Arg Leu Arg Ala Gly Glu Ala Val
    50                  55                  60
```

<210> 23176
<211> 189
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (166),(182),(189)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23176

```
Pro His Arg Asp Leu Leu Pro Arg Glu His Arg His His Leu His His
1               5                   10                  15
Asp Arg Pro Asp Gly Arg Pro Ala Val Arg Gln His Pro Arg Arg Arg
            20                  25                  30
Asn Arg Arg Leu Arg Pro Leu Val Asp Arg Arg Leu Pro Val His Pro
```

```
        35                  40                  45
Arg Arg His Arg His Pro Leu Arg Pro Ala Gln Ser Pro Thr Gln Gln
    50                  55                  60
Leu Arg Ala His Pro Pro Arg His Phe Thr Pro Arg His Cys Arg Pro
65                  70                  75                  80
His Leu Arg Arg Arg Arg Arg Arg His Leu His Phe Tyr Arg Ala Gln
                85                  90                  95
Pro Pro Pro Pro Gly Pro Arg His His Arg Arg Ile Pro Pro Arg Arg
            100                 105                 110
Arg Gly His Ile Pro Arg Pro Arg Leu Arg Arg Arg His Pro Leu Pro
        115                 120                 125
Ala Leu Leu Arg Ser Ala Ala Leu Ser Ala Glu Gly Met Ala Gly Tyr
    130                 135                 140
Asp Pro Leu Arg Ala Leu Leu Asp Lys Ala Ala Ser Arg Cys Lys Ile
145                 150                 155                 160
Leu Gly Gly Cys Val Xaa Lys Ser Phe Pro Ala Tyr Ala Arg Gly Thr
                165                 170                 175
Leu Leu Gly Ala Gln Xaa Gly Trp Pro Arg Cys Arg Xaa
            180                 185
```

<210> 23177
<211> 309
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (284),(299),(307)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23177

```
Cys His Leu Ala Asn Phe Cys Phe Ala Leu His Arg Arg Ser Lys Arg
1               5                   10                  15
Phe Ser Ser Thr Ser Ala Tyr Ser Thr Cys Leu Ile Asn Ile Leu Ile
            20                  25                  30
Asp Ile Met Pro Ala Pro Pro Ala Tyr Pro Pro Ala Arg Ala Leu Phe
        35                  40                  45
Asn Phe Ser Pro Gln Trp Phe Val Met Pro Gln Gly Thr Ala Ile Ile
    50                  55                  60
Ser Val Ile Leu His Gln Leu His Tyr Gln Phe Gly Ala Leu Arg Ile
65                  70                  75                  80
Leu Ala Lys Ile Val Trp Ile Tyr Thr Ile Val Leu Leu Ala Met Thr
                85                  90                  95
Leu Phe Leu Tyr Ile Leu Arg Leu Ile Arg Tyr Pro Arg Glu Val Cys
            100                 105                 110
Asp Glu Leu Arg His Asn Leu Ile Glu Thr Ser Cys Leu Ala Ser Ile
        115                 120                 125
Val Ile Thr Tyr Thr Thr Ile Val Gln Met Val Ala Leu Gln Tyr Gly
    130                 135                 140
Ser Thr His Gly Val Ala Ile Gly Val Tyr Val Leu Trp Trp Ile Ala
145                 150                 155                 160
Ala Phe Leu Ser Thr Leu Ala Val Ile Gly Ile Pro Phe Val Gln Leu
                165                 170                 175
Lys Val Gln Pro Ser Ser Phe Glu Arg Ile Pro Pro Ala Ile Leu Leu
            180                 185                 190
Pro Val Ile Ala Ala Leu Thr Cys Ala Ala Gly Gly Gly Val Ile Cys
```

```
        195                 200                 205
Thr Ser Thr Ala Leu Ser Pro Arg Leu Gln Val Pro Val Ile Ile Val
    210                 215                 220
Ala Tyr Leu Leu Val Gly Ala Gly Ile Ser Leu Ala Leu Gly Phe Asp
225                 230                 235                 240
Ala Val Ile Leu Phe Gln His Phe Ser Asp Gln Gln Pro Ser Pro Gln
                245                 250                 255
Lys Val Trp Gln Asp Met Ile Leu Cys Gly Pro Phe Trp Thr Arg Arg
            260                 265                 270
Leu Arg Ala Ala Arg Phe Trp Glu Gly Ala Cys Xaa Arg Val Phe Pro
        275                 280                 285
His Met Pro Gly Gly Arg Cys Leu Ala His Xaa Ala Val Gly Pro Asp
    290                 295                 300
Ala Ala Xaa Lys Pro
305
```

<210> 23178
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23178

```
Glu His Tyr Gly Thr Phe Asp Arg Pro Gly Phe Thr Val Phe Thr Ala
1               5                   10                  15
Ile Asp His Lys Ile Gln Val Arg Arg Ala Ile Lys Gly Phe Val Ala
            20                  25                  30
Asp Asn Pro Glu Tyr Glu Arg Leu Leu Pro His Val Lys Gly Glu Leu
        35                  40                  45
Asp Thr Phe Tyr Pro Cys Trp Thr Gly Thr Ile Asp Val Trp Asn Trp
    50                  55                  60
Trp Leu Ile Ser Val
65
```

<210> 23179
<211> 104
<212> PRT
<213> A.fumigatus

<400> 23179

```
Glu Asp Met Gly Gly Lys Ser Ala Thr Lys Ala Ala Tyr Phe Asp Lys
1               5                   10                  15
Leu Lys Ser Leu Leu Asp Glu Tyr Lys Thr Val Phe Ile Val Gly Val
            20                  25                  30
Asp Asn Val Ser Ser Gln Gln Met His Glu Ile Arg Leu Ala Leu Arg
        35                  40                  45
Gly Gln Ala Val Val Leu Met Gly Lys Asn Thr Met Val Arg Leu Ile
    50                  55                  60
Val Leu Val Leu Leu Phe Leu Gln Pro Leu Thr Ile Lys Ser Arg Phe
65                  70                  75                  80
Ala Val Pro Ser Arg Ala Ser Ser Pro Thr Thr Arg Ser Thr Ser Val
                85                  90                  95
Cys Phe Leu Thr Ser Arg Val Ser
            100
```

<210> 23180
<211> 145

<212> PRT
<213> A.fumigatus

<400> 23180
Lys Thr Arg Thr Tyr Val Ala Ile Lys Ser Val Asn Leu Ser Lys Leu
1 5 10 15
Asn Lys Lys Leu Lys Asp Asn Leu Ser Ser Glu Ile His Ile Leu Lys
20 25 30
Gly Leu Tyr His Pro His Ile Val Ala Leu Ile Asp Cys His Glu Thr
35 40 45
Thr Ser His Ile His Leu Val Met Glu Tyr Cys Ala Leu Gly Asp Leu
50 55 60
Ser Leu Phe Ile Lys Arg Arg Asp Thr Leu Gly Asp His Arg Tyr Thr
65 70 75 80
Arg Asp Met Ile Ala Lys Tyr Pro Asn Pro Pro Gly Gly Ala Leu Asn
85 90 95
Glu Val Val Val Arg His Phe Leu Asn Gln Leu Ala Ser Ala Leu Lys
100 105 110
Phe Leu Arg Asp Arg Asn Leu Ile His Arg Asp Ile Lys Pro Gln Asn
115 120 125
Leu Leu Leu Cys Pro Ser Pro Ser Ser Tyr Arg Asn Gly Val Thr Gln
130 135 140
Val
145

<210> 23181
<211> 302
<212> PRT
<213> A.fumigatus

<400> 23181
Asp Val Ala Gly Asn Ala Val Asp Leu Leu Pro Glu Glu Pro Arg Met
1 5 10 15
Ile Ile Gly Leu His Trp Ala Asp Thr Ser Ser Asn Leu Ile Val Val
20 25 30
Ala Ser Asp Ser Lys Ile Ser Glu Leu Ala Ile Trp Asp Asp Ser Leu
35 40 45
Arg Pro Asp Glu Phe Pro Ser Pro Gln Val Val Asp Gly Ser Val Tyr
50 55 60
Asp Leu Ser Trp Leu Gly Asp Lys Gln Ala Tyr Ala Ser Gly His Gly
65 70 75 80
Val Val Tyr Gln Cys Asp Val Asp Ser Ser Ile Arg Ile Ala Glu Thr
85 90 95
Phe Ser Trp Gly Glu Ser Asp Arg Val Trp Ser Phe Val Arg Cys Ala
100 105 110
Asn Ala Gly Ser Ser Pro Val Ala Val Ala Ala Ser Ser Asp Thr Ala
115 120 125
Ala Phe Trp Val Pro Thr His Asp Met His Leu Asp Asp Ala His Gln
130 135 140
Gly Asp Ile Thr Ser Ile Glu Ile Arg Pro His Pro Glu Pro Cys Glu
145 150 155 160
Lys Thr Gln His Gly His Ser Val Val Leu Ala Ser Ala Ser Thr Asp
165 170 175
Gly Ala Ile Lys Ile Trp Gln Ile Asp Leu Glu Ala Lys Arg Phe Ile
180 185 190
Cys Leu His Arg Leu Val Leu Gly Gln Ser Met Pro Thr Leu Ala Ala

```
        195                 200                 205
Cys Phe Ser Pro Asp Gly Tyr Ala Val Ala Ala Ala Ser Arg Asp Arg
    210                 215                 220
Leu Phe Ile Trp Asn Ala Glu Arg Gly Gly Thr Ala Met Ala Thr Trp
225                 230                 235                 240
Val Val Pro Gly Ser Asp Glu Ala Lys Ser Asp Gly Glu Ala Asp His
                245                 250                 255
Ala Ala Asn Gly Gln Asn Gly Ala Val Gly Leu Leu Pro Asp Arg Ser
            260                 265                 270
Leu Ser Trp Asp Thr Asp Gly Lys Lys Leu Ala Phe Gly Phe Ala Lys
        275                 280                 285
Gln Val Cys Leu Leu Leu Leu Val Asn Cys Leu Thr Ile Tyr
    290                 295                 300
```

<210> 23182
<211> 98
<212> PRT
<213> A.fumigatus

<400> 23182

```
Thr Asn Cys Leu Thr Glu Val Val Phe Glu Asp Ala Leu Glu Gln Ala
1               5                   10                  15
Arg Arg Leu Asp Gln Leu Phe Glu Glu Lys Gly Gln Leu Ala Gly Pro
            20                  25                  30
Leu His Gly Ile Pro Val Thr Leu Lys Asp Gln Phe Asn Ile Lys Lys
        35                  40                  45
Val Asp Thr Thr Leu Gly Tyr Val Gly Arg Ser Phe Ala Pro Ala Ser
    50                  55                  60
Glu Asp Ala Val Leu Val Glu Met Leu Lys Gly Met Gly Ala Val Ile
65                  70                  75                  80
Ile Ala Lys Thr Asn Leu Pro Gln Ser Ile Met Val Cys Ile Pro Leu
                85                  90                  95
Gly Pro
```

<210> 23183
<211> 252
<212> PRT
<213> A.fumigatus

<400> 23183

```
Cys Gln Met Ala Arg Ser Ser Phe Thr Ala Phe Leu Val Ala Phe Thr
1               5                   10                  15
Thr Val Val Asn Thr Ile Ser Pro Ser Tyr Ala Phe Asn Ser Leu Leu
            20                  25                  30
His Arg Ala Ser Asp Ser Cys Pro Ala Ser Tyr Glu Gln Cys Asn Asn
        35                  40                  45
Ser Asn Leu Pro Ser Ser Phe Cys Cys Pro Ser Thr Ser Thr Cys Val
    50                  55                  60
Ser Leu Asp Asn Asp Ser Ser Ala Ile Cys Cys Pro Ser Gly Gln Ser
65                  70                  75                  80
Cys Ala Phe Ile Glu Pro Ile Thr Cys Asp Val Ser Gln Gln Asn Ala
                85                  90                  95
Thr Leu His Pro Lys Ala Val Val Lys Thr Ile Arg Leu Gly Asp Thr
            100                 105                 110
Leu Pro Lys Cys Gly Asp Ser Cys Cys Pro Phe Gly Tyr Ser Cys Gln
```

```
        115                 120                 125
Ser Asn Ser Ile Cys Ala Met Ser Thr Ser Thr Thr Ser Ile Ala Thr
    130                 135                 140
Asn Ser Val Ser Ser Leu Thr Thr Thr Ala Ser Ser Ile Pro Ser Ala
145                 150                 155                 160
Pro Ser Thr Glu Ser Met Thr Ser Met Thr Ser Thr Val Pro Thr Ala
                165                 170                 175
Ala Thr Ser Ser Ser Lys Val Thr Asp Ser Ala Ser Ser Thr Asp Gly
            180                 185                 190
Val His Pro Thr Ile Ile Thr Ala Ser Asp Pro Ala Asp Pro Ser Ala
        195                 200                 205
Phe Gly Ala Ala Ser Ser Cys His Gly Thr Thr Ala Thr Met Thr Asp
    210                 215                 220
Ala Cys Pro Ser Phe Pro Thr Lys Ala Ile Ile Ala Gly Phe Phe Pro
225                 230                 235                 240
Gly Val Phe Tyr His Arg Glu Ala Lys Asp Gln Arg
                245                 250
```

<210> 23184
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23184

```
Arg His Ala Pro Tyr Leu Arg Tyr Thr Asn Arg Ile Val Gly Arg Gly
1               5                   10                  15
Thr Glu Leu Leu Leu Asp Lys Glu Asn Ala Thr Gly His Ala Cys Asn
            20                  25                  30
Ser Thr Thr Leu Gln Thr Val Asn Thr Lys Phe Met Leu Met Gln Leu
        35                  40                  45
Pro Asn Thr Leu Leu Phe Asp Phe Ser Ala Met Gln Phe Pro Gln His
    50                  55                  60
Ser Gln Arg Gly Thr Arg Lys Ile Lys Asn Val Ala Leu Trp Ser Gln
65                  70                  75                  80
```

<210> 23185
<211> 179
<212> PRT
<213> A.fumigatus

<400> 23185

```
Gly Gly Gly Arg Arg Ser Ser Ser Arg Arg Leu Ile His Gln Arg Arg
1               5                   10                  15
Cys Ser Gln Ala Thr Lys Ala Leu Tyr Glu Arg Glu Leu Ala Lys Gly
            20                  25                  30
Val Ser Glu Asn Glu Glu Ile Phe Thr Gly Glu Glu Ser Val Ser Thr
        35                  40                  45
Gly Ala Gln Pro Gln Trp Ala Ser Lys Tyr Arg Pro Arg Lys Pro Arg
    50                  55                  60
Tyr Phe Asn Arg Val Gln Met Gly Tyr Glu Trp Asn Lys Tyr Asn Gln
65                  70                  75                  80
Thr His Tyr Asp His Asp Asn Pro Pro Pro Lys Val Val Gln Gly Tyr
                85                  90                  95
Lys Phe Asn Ile Phe Tyr Pro Asp Leu Ile Asp Lys Thr Lys Ala Pro
            100                 105                 110
Thr Tyr Arg Ile Glu Arg Glu His Gly Arg Lys Arg Gly Gln Ser Phe
```

```
        115                 120                 125
Ala Ala Ala Gly Glu Glu Asp Thr Cys Leu Ile Arg Phe Met Ala Gly
    130                 135                 140
Pro Pro Tyr Glu Asp Ile Ala Phe Arg Ile Val Asp Lys Glu Trp Asp
145                 150                 155                 160
Tyr Ser Ala Lys Arg Glu Arg Gly Phe Lys Ser Thr Phe Asp Lys Ala
                165                 170                 175
Tyr Pro Val
```

<210> 23186
<211> 65
<212> PRT
<213> A.fumigatus

<400> 23186

```
Pro Gly Asn Ala Ile Ser Met Ile Gly Ala His Thr Asp Ser Pro Val
1               5                   10                  15
Leu Arg Val Lys Pro Val Ser Asn Lys Arg Gly Glu Gly Tyr Met Gln
            20                  25                  30
Val Gly Val Glu Thr Tyr Gly Gly Gly Ile Trp His Thr Cys Pro Phe
        35                  40                  45
Thr Asp Phe Tyr Pro Tyr Met Ala His Ser Lys Leu Met Val Val Arg
    50                  55                  60
Val
65
```

<210> 23187
<211> 157
<212> PRT
<213> A.fumigatus

<400> 23187

```
Arg Ser Gly Pro Gly Lys Gly Asn Asp Phe Ser Tyr Ser Thr Thr Gln
1               5                   10                  15
Pro Asn Asn Glu Glu Gln Ile Gly Ala Thr Leu Gly Gly Gly Ile Gly
            20                  25                  30
Arg Leu Leu Gly His Val Gly Tyr Ala Ala Asp Thr Val Leu Ser Met
        35                  40                  45
Arg Val Val Val Val Asp Gln Ser Gly Val Ala Arg Ala Val Glu Ala
    50                  55                  60
Ser Pro Asp Val Asn Ser Asp Leu Phe Trp Gly Leu Arg Gly Ser Gly
65                  70                  75                  80
His Leu Phe Gly Val Val Val Glu Ala Thr Phe Arg Ala Tyr Pro Trp
                85                  90                  95
Thr His Asp Thr Trp His Ser Cys Leu Val Phe Pro Pro Ser Asp Ala
            100                 105                 110
Gly Leu Val Ala Glu Ala Val Glu Lys Val His Tyr Gln Gly Gly Met
        115                 120                 125
Gln Gly Arg Leu Val Phe Cys Ala Pro Asn Lys Gln Val Ser Leu Ser
    130                 135                 140
Arg Thr Leu Tyr Trp Asn Pro Leu Ala Asp Phe Glu Asn
145                 150                 155
```

<210> 23188
<211> 73

<212> PRT
<213> A.fumigatus

<400> 23188
Pro Ile Val Leu Leu Gln Met Trp Tyr Met Gly Ser His Glu Glu Ala
1 5 10 15
Ala Ser Lys Phe Gln Pro Leu Leu Glu Leu Pro Ser Met Thr Asp His
20 25 30
Pro Leu Asn Phe Val Gly Arg Arg Ile Pro Tyr Pro Asn Leu Asn Asp
35 40 45
Ser Ser Asp Arg Ile Cys Gly Tyr Gly Gly Arg Lys Asn Leu Ala Ala
50 55 60
Phe Gly Leu Lys Ile Phe Thr Thr Arg
65 70

<210> 23189
<211> 140
<212> PRT
<213> A.fumigatus

<400> 23189
Ala Asp Met Cys Pro Gln Val Ser Tyr Ala Val Gln Asn Gln Arg Pro
1 5 10 15
Phe Val Val Arg Gly Gly Gly His Ser Asn Gly Phe Ser Thr Val Asp
20 25 30
Ser Pro Gly Ile Ile Ile Asp Leu Ser Arg Met Arg Lys Val Thr Val
35 40 45
Asp Val Glu Arg Gln Val Val Val Ala Gln Gly Gly Ala Thr Met Gly
50 55 60
Asp Gly Val Lys Ala Ala Ser Ser Val Gly Met Ala Val Ala Thr Gly
65 70 75 80
Thr Cys Asn Glu Val Gly Leu Val Arg Glu Met Thr Ser Pro Ile Pro
85 90 95
Pro Arg Asn Leu Ile Met Arg Asn Arg Ser Ala Leu Pro Leu Glu Glu
100 105 110
Gly Ser Gly Ala Phe Leu Gly Thr Leu Asp Thr Pro Gln Thr Pro Cys
115 120 125
Ser Arg Cys Gly Ser Leu Trp Trp Thr Arg Ala Glu
130 135 140

<210> 23190
<211> 115
<212> PRT
<213> A.fumigatus

<400> 23190
Phe Asp Pro Arg Pro Pro Gly Phe Ser Cys Pro Ser Ala Ser Lys Ile
1 5 10 15
Gln Ser Tyr Cys Asp Ala Ala Asp Pro Tyr Cys Cys Asn Gly Asn Asp
20 25 30
Ala Asn Thr His Gln Gly Tyr Gly Thr Glu Tyr Gly Gln Ala Ala Leu
35 40 45
Thr Phe Val Lys Ser Lys Leu Ser Ser Ser Gly Ser Gly Gly Gly Ser
50 55 60
Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Thr
65 70 75 80

```
Val Ala His Tyr Gly Gln Cys Gly Gly Gln Gly Trp Thr Gly Ala Thr
                85                  90                  95
Ser Cys Gln Ser Pro Tyr Thr Cys Thr Val Ile Ser Gln Trp Tyr Ser
            100                 105                 110
Gln Cys Leu
        115
```

<210> 23191
<211> 250
<212> PRT
<213> A.fumigatus

<400> 23191

```
Phe His Arg Gly Arg Ala Leu Ser Tyr Gln Met Ile Asn Ala Thr Asn
1               5                  10                  15
Gly Gly Pro Ser Tyr Thr Trp Ser Ser Ile Ala Leu Thr Asp Ala Phe
            20                  25                  30
Gln Lys Ala Glu Met Pro Met Pro Leu Val Val Ala Asp Gly Arg Tyr
        35                  40                  45
Pro Gly Glu Leu Leu Ile Ser Ser Asn Ala Thr Val Tyr Glu Phe Asn
    50                  55                  60
Pro Trp Glu Phe Gly Thr Phe Asp Pro Thr Val Phe Gly Phe Ala Pro
65                  70                  75                  80
Leu Glu Tyr Leu Gly Thr Lys Phe Asn Gly Gly Ser Val Pro Ser Asn
                85                  90                  95
Glu Ser Cys Val Arg Gly Phe Asp Asn Val Gly Phe Val Met Gly Thr
            100                 105                 110
Ser Ser Thr Leu Phe Asn Gln Phe Leu Leu Gln Ile Asn Ser Thr Ala
        115                 120                 125
Leu Pro Asp Trp Leu Lys Ser Val Phe Thr Asp Ile Leu Lys Asp Ile
    130                 135                 140
Gly Glu Asn Asp Glu Asp Ile Ala Gln Tyr Ala Pro Asn Pro Phe Tyr
145                 150                 155                 160
His Phe Ser Asn Thr Thr Asn Pro Ser Ala Ala Glu Leu Glu Leu Asp
                165                 170                 175
Leu Val Asp Gly Gly Glu Asp Leu Gln Asn Ile Pro Leu His Pro Leu
            180                 185                 190
Ile Gln Pro Glu Arg His Val Asp Val Ile Phe Ala Val Asp Ser Ser
        195                 200                 205
Ala Asp Thr Thr Tyr Ser Trp Pro Asn Gly Ser Ala Leu Val Ala Thr
    210                 215                 220
Tyr Glu Arg Tyr Leu Lys Phe Leu Arg His Arg Gln Arg Val Leu Pro
225                 230                 235                 240
Phe Leu Pro Phe Pro Asp Gln Asn Asn Leu
                245                 250
```

<210> 23192
<211> 93
<212> PRT
<213> A.fumigatus

<400> 23192

```
Arg Gln Leu Gly Gly Leu Leu His Ser Ala Thr Tyr Leu Ser Gly Leu
1               5                  10                  15
Ser Gly Gly Ser Trp Leu Val Gly Ser Ile Tyr Ile Asn Asn Phe Thr
            20                  25                  30
```

```
Thr Ile Ser Ala Leu Gln Thr His Gln Lys Gly Thr Val Trp Gln Phe
        35                  40                  45
Gln Asn Ser Ile Phe Glu Gly Pro Asp Gly Gly Ser Ile Gln Ile Leu
    50                  55                  60
Asp Ser Ala Thr Tyr Tyr Arg Asp Ile Ser Asn Ala Val Ser Gly Lys
65                  70                  75                  80
Ser Asp Ala Gly Tyr Pro Thr Ser Ile Thr Asp Tyr Trp
                85                  90
```

<210> 23193
<211> 124
<212> PRT
<213> A.fumigatus

<400> 23193

```
Phe Asp Tyr Val Ala Lys Leu Glu Leu Asn Ser Tyr Asn Phe His Ser
1               5                   10                  15
Pro Leu Ala Asp Arg Leu Gly Cys Tyr Leu His Pro Tyr Ala Ala Leu
            20                  25                  30
Ile Asn His Ser Cys Asp Tyr Asn Ser Val Val Gly Ser Asp Gly Asp
        35                  40                  45
Ala Leu Tyr Val Lys Ala Leu Arg Pro Ile Arg Lys Gly Glu Glu Ile
    50                  55                  60
Leu Val Ser Tyr Ile Asp Ala Thr Asn Pro Tyr Lys Ile Arg Gln Thr
65                  70                  75                  80
Glu Leu Leu Glu Arg Tyr Tyr Phe Lys Cys Arg Cys Pro Gln Phe Gly
                85                  90                  95
Lys Ser Thr Asn Thr Arg Glu Glu Arg Phe Leu Arg Glu Pro His Asp
            100                 105                 110
Leu Ser Val Leu Glu Lys Ala Glu Lys Arg Arg His
        115                 120
```

<210> 23194
<211> 162
<212> PRT
<213> A.fumigatus

<400> 23194

```
Ser Phe Gln Gly Pro Cys Val Lys Thr Ala Phe Ser Val Val Gln Arg
1               5                   10                  15
Asn Ser Thr Tyr Pro Ser Tyr Asn Ser Gly Gln Asp Ala Ser Ile Ile
            20                  25                  30
Ser Gln Phe Phe Pro Pro Gly Ser Asp Gln Thr Ile Asn Phe Pro Thr
        35                  40                  45
Phe Leu Asn Ile Leu Ser Ser Leu Leu Ala Pro Leu Ser Ser Arg Gln
    50                  55                  60
Glu Leu Met Asn Ala Leu Ala Ala Phe Asp Asp Asp Asp Ser Gly Gln
65                  70                  75                  80
Ile Asp Val Ala Glu Leu Arg Asp Thr Leu Leu His Thr Ala Ser Glu
                85                  90                  95
Asp Gly Gln Leu Pro Leu Thr Glu Lys Asp Ile Asn Glu Val Leu Gly
            100                 105                 110
Gly Phe Thr Gly Arg Arg Val Phe Ser Ser Lys Ala Gly Lys Leu Ser
        115                 120                 125
Thr Gly Gly Lys Arg Gly Glu Val Phe Arg Tyr Gln Glu Phe Ile Asp
    130                 135                 140
```

```
Ser Ala Ile Gly Gly Ser Ala Ser Gly Arg Arg Asp Pro Asp Thr Val
145                 150                 155                 160
Ala Arg


<210> 23195
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23195
Gln Thr Gln Leu Ser Asp Tyr Leu Pro Asn Ile Leu Ser Phe Ser Ser
1               5                  10                  15
Ser His Pro Asn Glu Ala Phe Tyr Thr Pro His His Pro Thr Thr Leu
            20                  25                  30
Pro Ser Leu Ile His Lys Ile Thr Ser Ser Ser Gln Ala Ser Asn His
        35                  40                  45
Ala Glu Arg Ala Ile Thr Ser Ala Ser Pro Asp His Pro Ser Val Phe
    50                  55                  60
Phe Gly Ile Ala Gly Ser Leu Thr
65                  70

<210> 23196
<211> 156
<212> PRT
<213> A.fumigatus

<400> 23196
Lys Gly Asp Asn Leu Ser Lys Pro Arg Pro Ser Val Ser Leu Leu Trp
1               5                  10                  15
His Ser Trp Ile Phe Asn Ile Arg Leu Leu Gln Gln Phe Ala Ile Ser
            20                  25                  30
His Leu Trp Leu Leu Ile Thr His Leu Ile Ala Ile Phe Glu Pro Ala
        35                  40                  45
Thr Asn Met Asn Leu Leu Asp Leu Pro Thr Glu Val Leu Val Met Ile
    50                  55                  60
Ala Glu Ala Leu Gln Thr Ala His Asp Ile Asn Thr Leu Ala Arg Thr
65                  70                  75                  80
Ser Arg Thr Leu Tyr Ser Cys Ile Asn Tyr Val Leu Tyr Gln Ser Asp
                85                  90                  95
Val Gln Asn Gly Asn Gly Lys Ala Leu Ile Trp Ala Ala Arg Arg Asn
            100                 105                 110
Lys Pro Ala Thr Ala Gln Lys Ser Leu Gln Ala Gly Val Lys Lys Leu
        115                 120                 125
Lys Lys Met Ala Ser Pro Ala Pro Asp Ala Leu Val Lys Gly Arg Pro
    130                 135                 140
Arg Asn His Asp Ala Val Val Ile Gly Gln Lys Cys
145                 150                 155

<210> 23197
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23197
Trp Gln Thr Gly Phe Gly Leu Val Val Ile Met Thr Thr Asp Gly Gly
```

```
1               5                   10                  15
Lys Arg Val Leu Ile Leu Tyr His Tyr Asp Ile Leu Val Arg Gly Leu
            20                  25                  30
Ala Leu Ala Val Thr Leu Ser Ser Ser Ser Ser Ile Ser Asp Tyr Gly
        35                  40                  45
Val Ser Glu Lys Leu Gly Val Leu Ile Pro Cys Tyr Gln Pro Tyr Ile
    50                  55                  60
Phe Leu Leu Tyr Leu Ser Arg Gly Asn Gly Arg
65                  70                  75
```

<210> 23198
<211> 182
<212> PRT
<213> A.fumigatus

<400> 23198

```
Pro Ala Arg Ser Ala Leu Gly Leu Leu Asp Met Leu Ala Gln Ser Leu
1               5                   10                  15
Pro Pro Ser Gln Val Val Val Pro Leu Leu His Ala Leu Gly Gln Tyr
            20                  25                  30
Phe Asn Asn Ser Asn Pro Asp Tyr Arg Arg Ala Gly Ile Met Ala Leu
        35                  40                  45
Gly Met Cys Val Glu Gly Ala Pro Asp Phe Ile Ser Thr Gln Met Gln
    50                  55                  60
Asp Ile Phe Pro Met Val Leu Gln Leu Leu Ala Asp Pro Glu Pro Lys
65                  70                  75                  80
Val Arg Gln Ala Ser Leu His Ala Val Ala Arg Leu Ala Asp Asp Leu
                85                  90                  95
Ala Glu Asp Leu Ser Ala Glu His Glu Lys Leu Met Pro Leu Leu Phe
            100                 105                 110
Lys Asn Leu Ala Ser Ala Met Gln Glu Tyr Lys Gly Glu Glu Asp Gly
        115                 120                 125
Pro Thr Ile Asp Ile Met Lys Ala Gly Ile Ser Ala Ile Asp Ala Val
    130                 135                 140
Val Asp Gly Leu Asp Glu Lys Asp Val Ala Pro Tyr Gln Gly Glu Leu
145                 150                 155                 160
Val Pro Ile Leu His Lys Leu Phe Lys His Pro His Val Ile Arg Gln
                165                 170                 175
Gly Trp Lys Val Cys Val
            180
```

<210> 23199
<211> 271
<212> PRT
<213> A.fumigatus

<400> 23199

```
Leu Gln Ser Ala Tyr Thr Ile Trp Asp Phe Leu Asn Val Ala Ser Ile
1               5                   10                  15
His Asn Ser Ser Thr Thr Thr Pro Pro Pro Arg Ser Arg Glu Leu Phe
            20                  25                  30
Leu Leu Ala Asn Ile Glu Gln Tyr Asn Leu Ala Tyr Asn Thr Ser Glu
        35                  40                  45
Pro Ile Arg Ala Val Ala Gly Ser Thr Leu Ala Gly Glu Val Leu Gln
    50                  55                  60
Gly Leu Asn Glu Thr Ile Ala Ser Lys Gly Lys Ser Lys Leu Asn Val
```

```
65                  70                  75                  80
Gln Phe Gly Ser Tyr Gly Thr Phe Leu Ser Tyr Phe Gly Leu Ala Gln
                85                  90                  95
Leu Pro Ala Ala Thr Val Asp Phe Thr Gly Ile Pro Asp Tyr Ala Ser
            100                 105                 110
Ser Met Ala Trp Glu Leu Val Thr Asn Ser Thr Leu Asp Glu Phe Pro
        115                 120                 125
Pro Ala Ser Glu Ile Ser Val Arg Phe Ile Phe His Asn Gly Thr Ile
    130                 135                 140
Ser Ser Ser Ser Thr Pro Ala Glu Tyr Pro Leu Tyr Gly Gln Ser Ser
145                 150                 155                 160
Val Thr Ile Pro Trp Ser Asp Phe Val Thr Gln Thr Glu Lys Ile Ala
                165                 170                 175
Ile Thr Asp Asp Glu Gln Trp Cys Lys Ala Cys Gly Asn Thr Asp Gly
            180                 185                 190
Ala Cys Ala Ala Tyr Thr Val Ser Ser Ser Gly Ser Glu Ser Ser Ser
        195                 200                 205
Ala Gly Leu Ser Ser Ser Lys Asp Gly Val Ser Arg Pro Val Ala Gly
    210                 215                 220
Val Ile Gly Ala Met Val Thr Leu Ala Val Ile Leu Gly Leu Glu Ala
225                 230                 235                 240
Ile Phe Leu Leu Val Gly Gly Phe Arg Ile Thr Lys Lys Arg Ser Ala
                245                 250                 255
Val Ser Gly Val Glu Thr Thr Thr Val Glu Gly Pro Lys Lys Val
            260                 265                 270
```

<210> 23200
<211> 123
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23200
Glu Arg His Ala Tyr Phe Leu Gly Xaa Phe Phe Pro Pro Pro Phe Ser
1               5                   10                  15
Lys Pro Met Gly Met Asp Asp Ser Ile Ile Glu Asp Ala Leu Thr Phe
            20                  25                  30
Arg Gly Phe Arg Trp Cys Glu Asp Pro Glu Ala Arg Ser Thr Ser Leu
        35                  40                  45
Val Ser Ile Ser Pro Ser Asn Met His Phe Gly Tyr Gly Arg Gln Ala
    50                  55                  60
Cys Pro Gly Arg Phe Phe Ala Ala Asn Thr Asn Lys Ala Ile Leu Gly
65                  70                  75                  80
Arg Leu Ile Ala Asp Tyr Glu Phe Lys Phe Glu Gly Asp Asn Asn Lys
                85                  90                  95
Arg Pro Arg Asn Leu Thr Leu Gly Glu Gln Ile Met Pro Asn Met His
            100                 105                 110
Thr Lys Ile Leu Leu Lys Lys Arg Ala Phe Val
        115                 120
```

<210> 23201
<211> 86

<212> PRT
<213> A.fumigatus

<400> 23201
Pro Pro His Tyr Glu Asp Trp Leu Arg Pro Gln Glu Pro Val Asp Ile
1 5 10 15
Thr Ala Ile Leu Leu Val Lys Ser Leu Thr His His Ser Lys Thr Gln
20 25 30
His Asn Asn Leu Thr His Leu Gln Trp His Thr Arg Gln Glu Glu Thr
35 40 45
His Arg Phe Ile Phe Ala Gln Tyr Ser Ala Thr Phe Ser Arg Ser Lys
50 55 60
Tyr Ser Pro Ile Gly Ile Pro Gln Pro Thr Ser Asn His Trp Cys Ile
65 70 75 80
Trp Asn Ser Arg Gly Thr
85

<210> 23202
<211> 131
<212> PRT
<213> A.fumigatus

<400> 23202
Ser Leu Tyr Leu His Arg Asp Val Asn Thr Asn Thr Leu Ser Thr Ser
1 5 10 15
Asp His Phe Ala His Val Asp Asp Asp His Gln Thr Asp Ile Ala Arg
20 25 30
His Arg Thr Leu Val Ser Gly Ile Leu Leu Glu Arg Val Ala Ser Ser
35 40 45
Met Phe Val Leu Gly Ser Tyr Pro Ser Arg Ser Gln Glu Arg Gln Thr
50 55 60
Arg Arg Ile Thr Ser Leu Ala Arg Asp Pro Glu Leu Pro Gln Leu Ser
65 70 75 80
Ser Gln Ala Ser Leu Gly Arg Asn Ser Lys Phe Tyr Asn Leu Thr Pro
85 90 95
Glu Asp Arg Glu Ala Leu Gly Gly Ile Glu Tyr Arg Ser Leu Arg Leu
100 105 110
Leu Leu Lys Ile Thr Leu Gly Glu Ser Lys Leu Glu Ile Asn Ser Val
115 120 125
Gln Arg Thr
130

<210> 23203
<211> 214
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12),(24),(41),(45)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23203
Asp Pro Arg Asn Glu Gln Ile Phe Gly Ser Arg Xaa Thr Ser Ser Pro
1 5 10 15
Ser Pro Pro Gly Gln Leu Asn Xaa Met Leu Asn Pro Lys Ser Leu Ala

```
            20                  25                  30
Ala Phe Gln Ala Leu Gly Gly Leu Xaa Gly Leu Glu Xaa Gly Cys Gly
        35                  40                  45
Thr Asp Leu Thr Ser Gly Leu Ser Glu Asp Glu Ala Leu Leu Asp Gly
    50                  55                  60
Thr Val Asp Phe Gln Glu Ala Thr Gln Asn Asp Gln Lys Leu Ser Lys
65                  70                  75                  80
Gln Ile Ser His Asn Ala Pro Val Ala Pro Ala Pro Ala Pro Glu Leu
                85                  90                  95
Gly Gly Gly Ser Arg Phe Gln Asp Arg Ile Arg Val Phe Ser Gln Asn
            100                 105                 110
Lys Leu Pro Ala Arg Lys Ser Thr Gly Phe Leu Lys Leu Leu Trp Phe
        115                 120                 125
Ala Tyr Asn Asp Lys Ile Ile Ile Leu Leu Thr Ile Ala Ala Ile Val
    130                 135                 140
Ser Leu Ser Leu Gly Ile Tyr Glu Thr Val Asp Glu Gly His Gly Val
145                 150                 155                 160
Asp Trp Ile Glu Gly Val Ala Ile Cys Val Ala Ile Leu Ile Val Thr
                165                 170                 175
Val Val Thr Ala Val Asn Asp Leu Gln Lys Glu Arg Gln Phe Ala Lys
            180                 185                 190
Leu Asn Lys Arg Val Gly Gly Met Val Ser Ala Leu Leu Ser Ile Cys
        195                 200                 205
Ser Asn His Val Ile Glu
    210
```

<210> 23204
<211> 144
<212> PRT
<213> A.fumigatus

```
<400> 23204
Asn Ser Asp Arg Glu Val Lys Ala Val Arg Ser Gly Lys Val Ala Met
1               5                   10                  15
Ile Ser Val Phe Asp Ile Thr Val Gly Asp Val Leu His Leu Glu Pro
            20                  25                  30
Gly Asp Ser Val Pro Ala Asp Gly Ile Leu Ile Ser Gly His Gly Ile
        35                  40                  45
Lys Cys Asp Glu Ser Ser Ala Thr Gly Glu Ser Asp Ala Met Lys Lys
    50                  55                  60
Thr Asn Gly His Glu Val Trp Gln Arg Ile Val Asn Gly Thr Ala Thr
65                  70                  75                  80
Lys Lys Leu Asp Pro Phe Met Ile Ser Gly Ser Lys Val Leu Glu Gly
                85                  90                  95
Val Arg Thr Tyr Leu Val Thr Ser Val Gly Pro Asp Ser Ser Tyr Gly
            100                 105                 110
Arg Ile Leu Leu Ser Leu Gln Glu Ser Asn Asp Pro Thr Pro Leu Gln
        115                 120                 125
Val Asn Leu Gly Thr Leu Ala Asn Cys Ile Gly Trp Ile Ser Ser Lys
    130                 135                 140
```

<210> 23205
<211> 227
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (163)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23205
Gly Glu Leu Gly Lys Gly Asp Phe Gln Leu Tyr Pro Ala Gly Val Phe
1 5 10 15
Ser Trp Gln His Asp Met Arg Ile Tyr Asn Lys Thr Asp Thr Gly Met
20 25 30
Ile Leu Ser Leu Phe Asn Asn Ala Asn Thr Pro Thr Glu Thr Val Ala
35 40 45
Ala Ser Thr Gly Leu Ser Tyr Ala Val Asp Leu Val Asn Arg Thr Ala
50 55 60
Lys Thr Leu Arg Thr Leu Ser Asp Ser Lys Asp Val Ile His Ser Val
65 70 75 80
Ser Gln Gly Asn Tyr Gln Gln Leu Ser Ala Trp Gly His Val Val Leu
85 90 95
Gly Tyr Gly Ser Ile Ala Lys Leu Lys Glu Phe Asp Ala Asn Asn Lys
100 105 110
Pro Val Leu Thr Ala Gln Phe Gly Thr Asp Asn Glu Val Ala Ser Tyr
115 120 125
Arg Gly Tyr Lys Cys Ala Trp Lys Ala Thr Pro Phe Trp Ala Pro Ala
130 135 140
Ile Val Val Arg Arg Val Ser Asp Asp Ser Ala Gln Val Phe Met Ser
145 150 155 160
Trp Asn Xaa Ala Thr Glu Tyr Asp Asn Trp Ala Val Met Ala Ala Asp
165 170 175
Ala Pro Asp Ser Val Arg Thr Ser Ile Val Ala Thr Phe Lys Arg Thr
180 185 190
Gly Phe Glu Thr Ser Gly Thr Val Arg Gly Leu Lys Thr Arg Tyr Leu
195 200 205
Gln Val Val Ala Arg Arg Gly Asp Ile Pro Leu Gly Met Ser Pro Ile
210 215 220
Val Ser Leu
225

<210> 23206
<211> 217
<212> PRT
<213> A.fumigatus

<400> 23206
Arg Pro Thr Trp Asp Leu Asp Met Ala Pro Ser Thr Phe Ser Thr Ile
1 5 10 15
Pro Thr Gly Glu Ile Tyr Thr Val Thr Leu Gln Gly Asn Phe Val Thr
20 25 30
Pro Asp His Ser Val Pro Glu Ser Phe Ile Asp Leu His Glu Ser His
35 40 45
Ile Ser Asp Arg Asn Thr Leu Leu Val Thr Ala Tyr Asn Val Thr Gln
50 55 60
Gln Ser Leu Thr Ser Ile Gly Gly Thr Pro Glu Asp Tyr Met Leu Asp
65 70 75 80
Ser Leu Phe Phe Glu Ile Asp Ile Ala Thr Asn Glu Ile Val His Ser
85 90 95
Trp Ser Ala Leu Glu His Val Asp Gln Ile Ala Leu Thr Asp Ser Lys

```
            100                 105                 110
Gln Gly Ile Asp Ile Asp His Gly Thr His Glu Gln Pro Trp Asp Ala
        115                 120                 125
Tyr His Ile Asn Ser Val Glu Leu Phe Asp Glu Gly Tyr Leu Val Ser
    130                 135                 140
Leu Arg His Tyr Trp Ser Gly Tyr Tyr Val His Gly Asn Gly Thr Val
145                 150                 155                 160
Met Trp Gln Phe Ser Val Phe Pro Phe Pro Pro Ser Pro Ser Phe Phe
                165                 170                 175
Trp Gly Met Leu Asp Thr Asp Glu Thr Arg Ala Asn Trp Ala Arg Val
            180                 185                 190
Thr Phe Asn Tyr Thr Arg Pro Gly Ser Ser Pro Gly Ser Thr Thr Cys
        195                 200                 205
Ala Ser Thr Thr Arg Gln Ile Pro Ala
    210                 215
```

<210> 23207
<211> 192
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23207
Pro Gly Xaa Ser Met Ser Thr Pro Val Glu Glu His Pro Ala Pro Arg
1               5                   10                  15
Tyr Ile Asp Glu Lys Lys Lys Glu Arg Leu Asp Asp Val Asp Val Ser
            20                  25                  30
Ala Ser Asp Asp Gly Thr Tyr Val His Asp Gly Ser Ala Val Ser Asn
        35                  40                  45
His Asn His Leu Arg Val Asp Thr Ser Tyr Asp Asp Thr Gln Arg Leu
    50                  55                  60
Pro Leu Arg Ser Pro Ser Ala Ala Arg Glu Arg Ser Leu Arg Leu Glu
65                  70                  75                  80
Asp Asp Leu Ala Leu Leu Glu Ala Glu Arg Val Ala Ser Arg Ser Thr
                85                  90                  95
His Glu Glu Met Glu Lys Gly Ser Lys Ala Glu Ser Ile Ser Arg Ile
            100                 105                 110
Arg Ser His Arg Ser Arg Asn Val Asp Glu Phe Asp Glu Ala Thr Asn
        115                 120                 125
Pro Leu His Glu Lys Ala Ala Val Tyr Asn Pro Pro Glu Asn Pro Asn
    130                 135                 140
Thr Lys Ile Ser Lys Phe Ile Lys Lys Val His Glu Ser Ser Phe Ile
145                 150                 155                 160
Val Arg Tyr Ile Thr Tyr Ile Val Pro Leu Val Val Ile Leu Leu Ile
                165                 170                 175
Pro Leu Leu Val Gly Ala Leu Ala Phe Pro Asp Ala Asn Val Gly Gly
            180                 185                 190
```

<210> 23208
<211> 172
<212> PRT
<213> A.fumigatus

<400> 23208
Pro Asp Arg Asp Ile Glu Glu Val Met Pro Leu Thr Glu Glu Gln Lys
1 5 10 15
Gln His Trp Leu Glu His Gly Phe Ile Lys Ile Pro Gln Cys Phe Thr
20 25 30
Lys Gln Asp Ala Asp Asn Trp Thr Ala Ser Ile Trp Ala Arg Leu Gly
35 40 45
Ile Ser Pro Thr Asp Lys Ser Thr Trp Asn Thr Glu Arg Val Asn Met
50 55 60
Pro Gly His Thr Val Val Asp Val Lys Asp Phe Ala Pro Lys Ala Trp
65 70 75 80
Asp Ala Ile Cys Glu Leu Val Gly Gly Glu Glu Arg Val Thr Asp Trp
85 90 95
Cys Lys Gly Trp Arg Asp Ser Trp Ile Ile Asn Leu Gly Lys Pro Glu
100 105 110
Tyr Lys Pro Asp Asp Pro Leu Asp Phe Arg Thr Leu Asp Asn Trp His
115 120 125
Asn Asp Gly Asp Phe Phe Thr His Phe Leu Asp Ser Gly Glu Gln Ala
130 135 140
Leu Leu Val Ile Pro Leu Phe Ser Asp Ile Arg Ser Lys Gly Gly Gly
145 150 155 160
Thr Val Leu Cys Thr Asp Gly Ile Gly Leu Val Ala
165 170

<210> 23209
<211> 157
<212> PRT
<213> A.fumigatus

<400> 23209
Met Arg Gly Ser Ser Trp Ile Leu Met Asn Gln Ser Ala Thr Pro Glu
1 5 10 15
Asn Leu Arg Lys Ser Phe Lys Val Thr Asp Arg Phe Phe Pro Arg Asp
20 25 30
Val Ile Thr Gly Leu Leu His Gln Ile Pro Lys Ile Phe Ala His Asn
35 40 45
Lys Lys Pro Glu Pro Ala Leu Leu Pro Thr Leu Asn Ala Ala Leu Ser
50 55 60
Ala Leu Gln Ala Thr Gly Gly Lys Ile Ile Cys Ala Val Ala Thr Leu
65 70 75 80
Pro Thr Trp Gly Pro Gly Ala Leu Val Arg Arg Glu Asp Pro Lys Val
85 90 95
His Gly Thr Asp Ala Glu Arg Lys Leu Phe Thr Thr Glu Asn Ala Ala
100 105 110
Trp Arg Ser Thr Ala Ser Lys Leu Ala Gly Ala Gly Ile Gly Val His
115 120 125
Met Phe Asn Pro Ala Pro Asn Gly Asp Leu Tyr Gly Thr Leu Leu Arg
130 135 140
Ser Val Ser Leu Phe Cys Leu Gly Asn Glu Val Ser His
145 150 155

<210> 23210
<211> 95
<212> PRT
<213> A.fumigatus

<400> 23210
Ser Gln Leu His Gln Asp Thr Asp Pro Gln Ala Leu Ser Lys Phe Thr
1 5 10 15
Val Pro Val Ile Gln Gln Leu Arg Gln Ala Glu Met Thr Val Lys Val
20 25 30
Gly Ile Asn Gly Phe Gly Arg Ile Gly Arg Ile Val Phe Arg Asn Ser
35 40 45
Phe Ser His Asp Gln Leu Gln Val Val Ala Val Asn Asp Pro Phe Thr
50 55 60
Asn Pro Lys Tyr Gly Ile Arg Ser His Pro Ser Leu Thr Lys Phe Ser
65 70 75 80
Gln Phe Pro Asn Gly Leu Asn Lys Gly Ile Gly Pro Ile Ser Lys
85 90 95

<210> 23211
<211> 278
<212> PRT
<213> A.fumigatus

<400> 23211
Val Leu Leu Val Asn Gln Glu Leu Gly Gly Thr Gly Val Ala Val Val
1 5 10 15
Asp Arg Leu Gly Gln Leu His Arg Ile Arg Gln Asn Ala Val Ala His
20 25 30
Ile Val Arg Gln Ile Leu Gly Gly Gly Asp Leu Asn Asp Leu Leu Val
35 40 45
Thr Ala Leu Asp Gly Ala Val Thr Leu Glu Gln Val Asp Asp Val Thr
50 55 60
Val Val Val Thr Glu Lys Leu Asp Phe Asp Val Leu Gly Ala Val Glu
65 70 75 80
Glu Thr Leu Asp Glu Asp Gly Ala Val Thr Lys Arg Arg Ala Gly Leu
85 90 95
Gly Gly Ser Thr Leu Lys Gly Val Pro Gln Ile Gly Leu Ile Ala Asp
100 105 110
Asp Thr His Thr Thr Ala Thr Thr Ala Glu Gly Ser Leu Asp Asp Asp
115 120 125
Gly Glu Ala Ile Gly Val Gly Glu Gly Leu Asp Leu Leu Val Ala Leu
130 135 140
His Trp Thr Arg Ser Thr Gly Asp His Gly Asp Ala Ala Leu Asp Gly
145 150 155 160
Gln Leu Thr Gly Arg Asp Leu Val Ala Glu Gly Phe Asp Gly Leu Arg
165 170 175
Gly Gly Ala His Lys Asp Asn Thr Ser Ile Leu Asp Leu Ala Ser Lys
180 185 190
Leu Ser Val Leu Arg Gln Glu Ala Val Thr Gly Val Asn Gln Val His
195 200 205
Thr Met Leu Leu Ser Asn Leu Asp Asp Leu Ile Asn Gly Gln Val Gly
210 215 220
Arg Asn Gly Gly Ile Leu Thr Ala Met Thr Asp His Val Gly Leu Val
225 230 235 240
Gly Leu Leu Ala Val His Gly Gln Thr Ile Leu Ile Arg Val Asp Gly
245 250 255
Asp Cys Leu Glu Arg Lys Phe Val Gly Gly Thr Glu Asp Thr Asp Gly
260 265 270
Asn Phe Thr Thr Val Gly

275

<210> 23212
<211> 278
<212> PRT
<213> A.fumigatus

<400> 23212
Ala Asn Arg Gly Glu Ile Pro Ile Arg Ile Phe Arg Thr Ala His Glu
1 5 10 15
Leu Ser Leu Gln Thr Val Ala Ile Tyr Ser Tyr Glu Asp Arg Leu Ser
20 25 30
Met His Arg Gln Lys Ala Asp Glu Ala Tyr Met Ile Gly His Arg Gly
35 40 45
Gln Tyr Thr Pro Val Ala Ala Tyr Leu Ala Ile Asp Glu Ile Val Lys
50 55 60
Ile Ala Gln Glu His Gly Val His Leu Ile His Pro Gly Tyr Gly Phe
65 70 75 80
Leu Ser Glu Asn Ala Glu Phe Ala Arg Lys Val Glu Asn Ala Gly Ile
85 90 95
Val Phe Val Gly Pro Thr Pro Glu Thr Ile Glu Ala Leu Gly Asp Lys
100 105 110
Val Ser Ala Arg Gln Leu Ala Ile Lys Cys Gly Val Pro Val Val Pro
115 120 125
Gly Thr Pro Gly Pro Val Glu Arg Tyr Glu Glu Val Lys Ala Phe Thr
130 135 140
Asp Thr Tyr Gly Phe Pro Ile Ile Ile Lys Ala Ala Phe Gly Gly Gly
145 150 155 160
Gly Arg Gly Met Arg Val Val Arg Asp Gln Ala Asp Leu Arg Asp Ala
165 170 175
Phe Glu Arg Ala Thr Ser Glu Ala Arg Ser Ala Phe Gly Asn Gly Thr
180 185 190
Val Phe Val Glu Arg Phe Leu Asp Arg Pro Lys His Ile Glu Val Gln
195 200 205
Leu Leu Gly Asp Asn His Gly Asn Val Ile His Leu Phe Glu Arg Asp
210 215 220
Cys Ser Val Gln Arg Arg His Gln Lys Val Val Glu Ile Ala Pro Ala
225 230 235 240
Lys Asp Leu Pro Asn Asp Val Arg Asp Arg Ile Leu Ala Asp Ala Val
245 250 255
Lys Leu Ala Lys Thr Val Asn Tyr Arg Asn Ala Gly Thr Ala Glu Phe
260 265 270
Leu Val Asp Gln Gln Asn
275

<210> 23213
<211> 182
<212> PRT
<213> A.fumigatus

<400> 23213
Phe Thr Pro Val Thr Ala Ser Cys Leu Arg Thr Leu Ser Leu Leu Ala
1 5 10 15
Arg Ser Arg Met Leu Val Leu Ser Leu Trp Ala Pro Pro Arg Arg Pro
20 25 30
Ser Lys Pro Ser Ala Thr Arg Ser Leu Pro Val Asn Trp Pro Ser Ser

```
        35                  40                  45
Ala Ala Ser Pro Trp Ser Pro Val Leu Leu Val Gln Trp Ser Ala Thr
    50                  55                  60
Arg Arg Ser Arg Pro Ser Pro Thr Pro Met Ala Ser Pro Ser Ser Ser
65                  70                  75                  80
Arg Leu Pro Ser Ala Val Val Ala Val Val Cys Val Ser Ser Ala Ile
                85                  90                  95
Arg Pro Ile Cys Gly Thr Pro Leu Ser Val Leu Pro Pro Arg Pro Ala
            100                 105                 110
Leu Arg Leu Val Thr Ala Pro Ser Ser Ser Ser Val Ser Ser Thr Ala
        115                 120                 125
Pro Ser Thr Ser Lys Ser Ser Phe Ser Val Thr Thr Thr Val Thr Ser
    130                 135                 140
Ser Thr Cys Ser Ser Val Thr Ala Pro Ser Ser Ala Val Thr Arg Arg
145                 150                 155                 160
Ser Leu Arg Ser Pro Pro Pro Arg Ile Cys Arg Thr Met Cys Ala Thr
                165                 170                 175
Ala Phe Trp Arg Met Arg
            180
```

<210> 23214
<211> 291
<212> PRT
<213> A.fumigatus

<400> 23214

```
Asp Ala Gln Ala Lys Leu Asn Gly Glu Leu Ser Leu Asp Asn Ala Asp
1               5                   10                  15
Leu Leu Phe Ser Tyr Gly Lys Ala Leu Tyr Asn Val Ala Val Ser Lys
            20                  25                  30
Ser Asp Val Leu Gly Ser Lys Val Ala Gly Glu Pro Gln Ala Gln Thr
        35                  40                  45
Asn Asp Leu Pro Pro Ser Gly Ser Lys Ser Phe Ala His Val Pro Gly
    50                  55                  60
Glu Ser Ile Ile Lys Asn Ala Ile Ala Ser Gly Val Ala Lys Gln Glu
65                  70                  75                  80
His Ser Lys Asp Ser Lys Ser Ser Ser Gly Lys Thr Leu Asn Gln Ala
                85                  90                  95
Phe Phe Gln Phe Ser Gly Asp Glu Asn Phe Asp Asp Ser Asp Ser Glu
            100                 105                 110
Ala Glu Glu Gly Asp Gly Gly Ala Asp Gly Ala Asp Asp Asp Asp Asp
        115                 120                 125
Asp Phe Ala Asn Ala Phe Glu Val Leu Asp Leu Ala Arg Ile Leu Tyr
    130                 135                 140
His Lys Lys Leu Ala Ala Val Glu Glu Ser Cys Glu Glu Gly Lys Ser
145                 150                 155                 160
Ala Gly Leu Leu Pro Asp Val Lys Tyr Ile Lys Glu Arg Leu Ala Asp
                165                 170                 175
Thr Tyr Asp Leu Gln Ala Glu Ile Ser Leu Glu Gly Glu Arg Phe Thr
            180                 185                 190
Asp Ala Val Ala Asp Leu Arg Thr Ala Leu Asp Leu Arg Gln Ser Leu
        195                 200                 205
Phe Ser Met Glu Asp Pro Ser Leu Ala Glu Cys His Tyr Lys Leu Ser
    210                 215                 220
Leu Ala Leu Glu Phe Ala Ser Val Asn Asn Ser Ser Glu Gly Thr Thr
225                 230                 235                 240
```

```
Glu Gly Asp Ser Gly Arg Arg Gly Lys Val Asp Glu Ala Met Arg Glu
                245                 250                 255
Glu Ala Ala Thr Gln Met Glu Lys Ala Ile Glu Ser Cys Arg Ala Arg
            260                 265                 270
Met Ala Gln Val Gln Lys Lys Thr Met Met Thr Val Trp Arg Thr Val
        275                 280                 285
Thr Gln Tyr
    290
```

<210> 23215
<211> 89
<212> PRT
<213> A.fumigatus

<400> 23215

```
Val Leu Phe Ile Ile Leu Leu Leu Ala Trp Lys Leu Met Gly His Ser
1               5                   10                  15
Leu Val Gly Leu Gly Tyr Leu Lys Val Phe Val Pro Pro Glu Lys Ile
            20                  25                  30
Leu Arg Trp Ile Glu Gly Lys Leu Asn Leu Leu Gly Arg Leu Pro His
        35                  40                  45
Tyr Val Ser Val Asp Gln Lys Thr Tyr Gly Arg Tyr Gly Val Leu Pro
    50                  55                  60
Thr Ala Thr Ala Ala Val Gly Gly Glu Arg Pro Thr Pro Leu Ser Tyr
65                  70                  75                  80
Leu Gly Thr Asn Gln Arg Leu Gly Pro
                85
```

<210> 23216
<211> 280
<212> PRT
<213> A.fumigatus

<400> 23216

```
Phe Ile Asp Gly Pro Glu Ala Pro Gly Glu Asp Arg Glu Thr Glu Leu
1               5                   10                  15
Arg Asn Met Glu Leu Ala Glu Gln Glu Arg Lys Arg Ala Gln Gln Glu
            20                  25                  30
Glu Asp Ser Gln Ala Pro Val Pro Leu Lys Thr Asn Gly Asp Ala Thr
        35                  40                  45
Ser Pro Ala Ala Glu Pro Asn Ile Gly Leu Glu Lys Lys Pro Gln Ala
    50                  55                  60
Gly Pro Val Met Arg Ile Val Asn Gly Glu Ile Val Leu Asp Ala Ala
65                  70                  75                  80
Ser Leu His Val Asp Arg Tyr Ala Asp Ala Ala Arg Asn Ala Gly Asp
                85                  90                  95
Leu Glu Asp Val Val Glu Ser Ser Leu Thr Arg Lys Ile Asn Gln Ala
            100                 105                 110
Thr Trp Gly Lys Arg Ser Lys Thr Glu Ser Trp Asp Glu Glu Met Thr
        115                 120                 125
Glu Leu Phe Tyr Arg Gly Leu Arg Met Phe Gly Thr Asp Phe Met Met
    130                 135                 140
Ile Ser Lys Leu Phe Pro Gly Arg Ser Arg Arg Gln Ile Lys Leu Lys
145                 150                 155                 160
Phe Asn Asn Glu Glu Arg Arg Ala Pro Glu Arg Ile Lys Glu Thr Leu
                165                 170                 175
```

```
Leu Gly Pro Arg Glu Thr Ile Asp Ile Thr Thr Tyr Ser Glu Met Thr
            180                 185                 190
Asn Thr Val Tyr Asp Asp Pro Lys Val Val Gln Gln Glu Leu Asp Glu
        195                 200                 205
Glu Lys Lys Arg Ile Glu Glu Gln His Ala Lys Glu Lys Gln Ala Gln
    210                 215                 220
Glu Asp Leu Leu Arg Asn Pro Asp Gly Thr Thr Gly Gly Asp Ala Ala
225                 230                 235                 240
Pro Gly Leu Asp Asn Ala Ser Asn Val Pro Val Lys Gly Lys Arg Asn
                245                 250                 255
Asn Lys Arg Gln Ala Met Arg Ala Met Gly Gly Gly Thr Glu Glu Val
            260                 265                 270
Ile Gly Thr Ile Asp Asp Leu Pro
        275                 280
```

<210> 23217
<211> 263
<212> PRT
<213> A.fumigatus

<400> 23217

```
Pro Leu Asn Ile Val Leu Gly Gln Phe Phe Asp Leu Leu Asn Ile Phe
1               5                   10                  15
Asn Ile Asn Gly Tyr Pro Ser Glu Thr His Ala Tyr Leu Phe Asn Gly
            20                  25                  30
Asp Phe Val Asp Arg Gly Ser Trp Ser Thr Glu Ile Ala Leu Leu Leu
        35                  40                  45
Tyr Ala Tyr Lys Trp Leu Arg Pro Asn Arg Ile Phe Leu Asn Arg Gly
    50                  55                  60
Asn His Glu Thr Asp Asp Met Asn Lys Val Tyr Gly Phe Glu Gly Glu
65                  70                  75                  80
Cys Lys Ala Lys Tyr Asn Glu Arg Leu Phe Lys Val Phe Ser Glu Ser
                85                  90                  95
Phe Ser Ala Leu Pro Leu Ala Thr Leu Ile Gly Ser Lys Tyr Leu Val
            100                 105                 110
Leu His Gly Gly Leu Phe Ser Asp Asp Lys Val Thr Leu Asp Asp Ile
        115                 120                 125
Arg Lys Leu Asn Arg His Asn Gln Arg Gln Pro Gly Gln Gln Gly Leu
    130                 135                 140
Met Met Glu Met Leu Trp Thr Asp Pro Gln Thr Glu Pro Gly Arg Gly
145                 150                 155                 160
Pro Ser Lys Arg Gly Val Gly Leu Gln Phe Gly Pro Asp Val Thr Lys
                165                 170                 175
Arg Phe Cys Glu Lys Asn Gly Leu Glu Ala Ile Ile Arg Ser His Glu
            180                 185                 190
Val Arg Met Glu Gly Tyr Glu Val Glu His Asp Gly Arg Cys Ile Thr
        195                 200                 205
Val Phe Ser Ala Pro Lys Tyr Cys Asp Thr Thr Glu Asn Lys Gly Ala
    210                 215                 220
Phe Ile Asn Ile Gly Pro Glu Leu Lys Leu Asp Phe Lys Val Phe Glu
225                 230                 235                 240
Ala Val Pro His Pro Asp Ile Arg Pro Met Val Asn Pro Val Leu Ser
                245                 250                 255
Cys Leu Leu Lys Leu Gln Ser
            260
```

<210> 23218
<211> 86
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23218
Ser Phe Leu Pro Thr Met Thr Val Asp Ser Lys Pro Gln Leu Gln Arg
1 5 10 15
Leu Ala Ala Asp Ala Asp Val Asp Arg Met Cys Arg Leu Leu Glu Glu
20 25 30
Asp Gly Ala Phe Ile Leu Lys Gly Leu Leu Pro Phe Asp Val Val Glu
35 40 45
Ser Phe Asn Arg Glu Leu Asp Val Xaa Met Ala Ile Pro Pro Pro Lys
50 55 60
Gly Glu Arg Leu Leu Ala Asp Gln Ser Pro Pro His Phe Lys Tyr Val
65 70 75 80
Pro Asp Val Ala Pro Thr
85

<210> 23219
<211> 178
<212> PRT
<213> A.fumigatus

<400> 23219
Cys Ser Gly Ile Ser Pro Cys Thr Asn Cys Ile Lys Asn Asn Val Glu
1 5 10 15
Cys Thr Phe Asp Ala Ser Ala Asp Lys Arg Arg Arg Gly Ala Leu Lys
20 25 30
Arg Lys Val Asn Gln Leu Glu Glu Lys Glu Glu Leu Leu Ile Gln Leu
35 40 45
Val Ser Ile Leu Arg Glu Ser Gly Thr Arg Arg Thr Ile Gln Leu Leu
50 55 60
Asn Leu Ile Arg Ser Asn Ala Ser Leu Ser Glu Ile Gln Leu Tyr Ile
65 70 75 80
Asp Thr Gln Leu Lys Ser Glu Leu Glu Gln Thr Pro Glu Leu Ile Glu
85 90 95
Val Cys Asn Glu Ile Gln Arg Phe Glu Pro Met Gly Ser Arg Ser Trp
100 105 110
Arg Arg Ile Leu Asp Ala Gln Arg Ala Phe Val Glu Pro Leu Phe Arg
115 120 125
Val Pro Ala Ala Pro Trp Thr Thr Val Thr Ala Asp Asp Glu Phe Val
130 135 140
Ser His Leu Ile Ser Leu Trp Phe Thr Trp Val His Pro Phe Tyr Tyr
145 150 155 160
Trp Ile Asp Phe His His Arg Gly Arg Arg Ile Arg Ala Met Arg Leu
165 170 175
Gly Gln

<210> 23220

<211> 196
<212> PRT
<213> A.fumigatus

<400> 23220
Thr Gly Lys Met Ala Ser Arg Glu Arg Ser Pro Pro Ser Thr Ala Ser
1 5 10 15
Thr Thr Thr Met Arg Pro Pro Thr Thr Ala Leu Leu Ile Tyr Pro Val
20 25 30
Thr Leu Leu Val Gly Ser Leu Phe Ser Ile Leu Ser Pro Thr Ala Arg
35 40 45
Gly Ser Arg Gln Ser Arg Pro Ala Arg Pro Ala Ser Leu Ala Pro Ser
50 55 60
Ile Thr Thr Asp Val Asn Leu Ser Pro Pro Asn Pro Val Asn Tyr Phe
65 70 75 80
Ala Arg Lys Asp Asn Ile Phe Asn Leu Tyr Phe Val Lys Val Gly Trp
85 90 95
Ile Trp Thr Thr Leu Ala Phe Leu Ser Leu Leu Val Ser Gln Pro Ala
100 105 110
Tyr Thr Ala Pro Ser Ala His Gln Pro Arg Arg Leu Val Gln Ala Ala
115 120 125
Leu Arg Tyr Ser Val Ala Thr Leu Val Trp Tyr Leu Met Thr Gln Trp
130 135 140
Phe Phe Gly Pro Pro Ile Ile Asp Arg Ser Phe Val Ile Thr Gly Gly
145 150 155 160
Lys Cys Glu Arg Val Val Ala Glu Thr Ser Gly Asn Pro Gly Gly Gly
165 170 175
Cys Cys Ala Gly Gly Ile Cys Phe Cys Gly Ser Gly Lys Val Val Tyr
180 185 190
Gly Gly Ser Leu
195

<210> 23221
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (44),(75)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23221
Leu Arg Ala Gly Asn Ala Ser Ala Leu Trp Arg Arg Arg Arg Ala Ile
1 5 10 15
Pro Ala Val Ala Val Ala Gln Ala Gly Ser Val Ser Ala Gly Leu Glu
20 25 30
Lys Leu Phe Thr Ala Ala Ala Cys Lys Ala Gly Xaa Gly Ser Trp Thr
35 40 45
Gly Gly His Asp Val Ser Gly His Val Phe Met Leu Val Leu Ala Thr
50 55 60
Ser Met Leu Gly Phe Glu Ala Val Gly Ala Xaa Arg Ala
65 70 75

<210> 23222
<211> 146

<212> PRT
<213> A.fumigatus

<400> 23222
Ser Pro Ile Gln Thr Arg Cys Ser Ser Glu Gly Thr Arg Ser Ala Glu
1 5 10 15
Asp Phe Lys Pro Ile Asp Pro Ser Thr Ser Leu Glu Gln Ala Leu Ala
20 25 30
Gly Ala Val Thr Asp Thr Gln Pro Pro Ser Thr Ala Glu Thr Ala Gln
35 40 45
Ala Gly Asp Lys Gln Glu His Asn Ser Ser Ser Thr Pro Thr His Asp
50 55 60
Asp Lys Ala Asn Thr Gly Glu Ser Thr Glu Pro Ala Arg Lys Lys Gln
65 70 75 80
Lys Ile Gly Glu Glu Asn Gly Met Ala Lys Asn Gly Gln Thr Ala Gly
85 90 95
Pro Ala Thr Asp Asn Ser Thr Ser Asn Val Thr Gly Asn Asp Glu Lys
100 105 110
Lys Ser Gly Arg Ser Lys Lys Val Lys Asp Thr Ala Lys Arg Thr Val
115 120 125
His Ser Asp Gly Ile Gly Ser Arg Thr Arg Ser Arg Thr Lys Ala Ala
130 135 140
Ala Thr
145

<210> 23223
<211> 172
<212> PRT
<213> A.fumigatus

<400> 23223
Asn Asp Ala Leu Glu Asp Ile Asp Glu Phe Asn Pro Gly Phe Arg Ser
1 5 10 15
Gln Ser Gln Gln Thr Met Arg Met Ser Phe Ser Ser Ser Arg Ser Arg
20 25 30
Thr Val Arg Asn Val Pro Lys Gln Arg Ala Ala Ser Ala Met Ser Val
35 40 45
Arg Gln Thr Val Asn Pro Gly Arg Val Ser Pro Ala Leu Ser Ala Pro
50 55 60
Ser Gln Gly Ser Gly Leu Gln Val Pro Asp Asp Gly Arg Gln Glu Ser
65 70 75 80
Thr Ser Arg Leu Ser Thr Ile Leu Asn Thr Thr Ile Lys Gly Ser Phe
85 90 95
Gly Arg Arg Gly Arg Pro Gly Tyr Ala Thr Ser Ser Val His Glu Gly
100 105 110
Ser Leu His Ala Asp Ser Leu His Glu Arg Asp Ser Glu Glu Asp Phe
115 120 125
Arg Arg Met Met Glu Gln Asp Ser Asp Arg Leu Glu Asn Val Arg Ala
130 135 140
Cys Cys Asp Gly Lys His Asp Val Ser Ser Leu Ser Arg Thr Ser Arg
145 150 155 160
Tyr Ser Pro Arg Val Asn Arg Met His Ser His His
165 170

<210> 23224
<211> 161

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23224

Arg	Arg	Gly	Met	Gln	Cys	Gln	Cys	Ser	Ile	Gln	Val	Gly	Glu	Val	Val
1				5				10						15	
Asn	Xaa	Phe	Phe	Gln	Phe	Gly	Leu	Gly	Val	Ala	Tyr	Glu	Tyr	Gly	Leu
		20					25						30		
Met	Gly	Cys	Pro	Val	Asp	Leu	Arg	Gln	Ser	Phe	Phe	Trp	Tyr	Thr	His
	35					40					45				
Ala	Ala	Ala	Gln	Gly	Glu	His	Gln	Ser	Glu	Leu	Ala	Leu	Ser	Gly	Cys
50					55					60					
Ile	Leu	Thr	Gly	Ser	Glu	Gly	Ile	Leu	Gln	Gln	Ser	Asp	Thr	Glu	Ala
65				70					75					80	
Tyr	Leu	Trp	Ala	Arg	Lys	Ala	Ala	Thr	Ala	Gly	Leu	Ala	Lys	Ala	Glu
			85					90					95		
Tyr	Ala	Met	Gly	Tyr	Phe	Thr	Glu	Val	Gly	Ile	Gly	Val	Ala	Ala	Asn
		100					105					110			
Leu	Asp	Asp	Ala	Lys	Arg	Trp	Tyr	Trp	Arg	Ala	Ala	Gly	Lys	Ser	Phe
	115					120					125				
Arg	Ala	Phe	Tyr	Gln	Trp	Ser	Leu	Cys	Val	Lys	Leu	Thr	Tyr	Leu	Leu
130					135					140					
Tyr	Pro	Thr	Ser	Ser	Arg	Phe	Pro	Gln	Gly	Ser	Gly	Ala	Ser	Arg	Gly
145				150					155					160	
Asn															

<210> 23225
<211> 236
<212> PRT
<213> A.fumigatus

<400> 23225

Thr	Trp	Ala	Ile	Arg	Thr	Met	Leu	Ser	Cys	Gly	Pro	Leu	Ala	Thr	Arg
1				5				10						15	
Leu	Val	Leu	Ser	Trp	Ser	Lys	Asp	Asp	Ser	Pro	Arg	Gly	Ile	Ala	Ala
		20					25						30		
Ala	Gln	Ser	Leu	Thr	Val	Ala	Leu	Ser	Asp	Leu	Pro	Arg	Leu	Cys	Phe
	35					40					45				
Leu	Ala	Val	Ala	Phe	Phe	Ser	Phe	Glu	Phe	Ile	Ile	Phe	Gly	Cys	Ala
50					55					60					
Ala	Leu	Leu	Pro	Thr	Tyr	Val	Arg	Tyr	Ala	Gly	Phe	Pro	Leu	Asp	Val
65				70					75					80	
Gln	Phe	Tyr	Ala	Leu	Thr	Val	Leu	Asn	Ser	Met	Ser	Phe	Leu	Gly	Arg
			85					90					95		
Val	Leu	Pro	Gly	Leu	Ala	Ala	Asp	Gln	Leu	Gly	Arg	Phe	Asn	Ile	Leu
		100					105					110			
Leu	Ala	Leu	Val	Val	Met	Thr	Leu	Leu	Val	Met	Gly	Ser	Val	Trp	Leu
	115					120					125				
Pro	Phe	Gly	Ser	Arg	Gly	Gln	Ala	Thr	Leu	Tyr	Ala	Val	Val	Ala	Ile
130					135					140					

```
Phe Gly Phe Gly Ser Gly Gly Trp Leu Ser Leu Ala Pro Val Cys Ala
145                 150                 155                 160
Gly Gln Leu Cys Gln Thr Glu Glu Tyr Gly Arg Phe Tyr Gly Thr Ile
                165                 170                 175
Tyr Ser Val Ala Ala Phe Gly Val Leu Leu Thr Val Pro Val Gly Gly
            180                 185                 190
Glu Leu Leu Gln Ser Thr Thr Pro Lys Val Leu Ile Gly Phe Tyr Ser
        195                 200                 205
Ala Val Leu Met Val Gly Leu Val Ser Val Val Met Ala Arg Trp Ala
    210                 215                 220
Leu Leu Asp Trp Arg Trp Lys Trp Arg Val Lys Leu
225                 230                 235
```

<210> 23226
<211> 101
<212> PRT
<213> A.fumigatus

<400> 23226

```
Asp Pro Thr Arg Asp Ala Gly Leu Gly Thr Trp Trp His Leu Gly Tyr
1               5                   10                  15
Arg Leu Met His Asp Ile Ser His Pro Asp Gln Glu Leu Gly Arg Ile
            20                  25                  30
Tyr Trp His Asn Gly Asn Thr Gly Leu Gln Thr Arg Glu Leu Cys His
        35                  40                  45
Thr Thr Gly Thr Gly Ile Trp Phe Ser Gln His Ser Ala Trp Asp Gly
    50                  55                  60
Ile Leu Leu Lys Ser Leu Tyr Thr Tyr Leu Cys Ile Val Thr Leu Ser
65                  70                  75                  80
Ser Leu Ser Tyr Val Ser Val Leu Ser Gly Leu Thr Arg Ser Ser Met
                85                  90                  95
Ser Asn Lys Ile Leu
            100
```

<210> 23227
<211> 280
<212> PRT
<213> A.fumigatus

<400> 23227

```
Met Asp Arg Leu Ser Asn Thr Gln Asn Ser Ser Val Ser Pro Arg Thr
1               5                   10                  15
Pro Leu His Ala Asn Gln Gln Pro Ala Val Arg Ala Phe Pro Ala Thr
            20                  25                  30
Glu Pro Asp Trp Tyr Met Ser His Lys Val Tyr Ala Pro Ser Gln Gly
        35                  40                  45
Thr Ser Gly Pro Ile Phe Val Asp Asp Gln Thr Met Ser Thr Trp Pro
    50                  55                  60
Leu Leu Ala Asp Gln Gln Pro Ser Pro Ser Pro Ser Asp Arg His Thr
65                  70                  75                  80
Ser His Asn Gly Ser Pro Val Ala Met Ser Gly Ser Asn Ala Phe His
                85                  90                  95
Gln Arg Arg Ile Ser Gln Gly Met Asp Thr Ala Leu Val Asn Ala Thr
            100                 105                 110
Ser Thr Val Thr His Thr Phe Ser Gly Ile Pro Phe Ala Val Thr Thr
        115                 120                 125
```

```
Glu Ser Cys Thr Pro Glu Gln Val Ser Thr Thr Ala Ala Thr Ala Pro
    130                 135                 140
Val Gln Trp Thr Val Pro His Trp Tyr Pro Leu Pro Pro Gly Ala Ile
145                 150                 155                 160
Ser Gln Pro Pro Pro Val Gln Phe Tyr Pro Pro Ala Pro Pro Ser Pro
                165                 170                 175
Pro Ser Thr Ser Pro Val Asp Pro Thr Met Gln Ala Pro His Ser Gln
            180                 185                 190
Val Asp Phe Ser Ala Tyr Leu Pro Asn Tyr Ser Gly Pro Ser Gln Tyr
        195                 200                 205
Gln Val Cys Glu Asn Phe Asp Arg Val Lys Ser Trp Lys Arg Val Met
    210                 215                 220
Ser Leu Gln Tyr Thr Pro Asp Thr Thr Ala Leu Asn Pro Arg Ala Glu
225                 230                 235                 240
Arg Pro Glu Val Ala Asn Tyr Ala Asp Trp Lys Ala Ser Leu Pro Ser
                245                 250                 255
Gln Ile Ser Ser Phe His Ser His Gly Ile Leu Glu Ser Pro Val Ser
            260                 265                 270
Ile Ser Pro Ser Met Leu Gln Asn
        275                 280
```

<210> 23228
<211> 163
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (157),(160)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23228

```
Lys Lys Arg Arg Ser Gly Phe Gly Phe Lys Arg Ser Thr Ala Pro Thr
1               5                   10                  15
Leu Thr Leu Arg Ser Ile Phe Leu Pro Ser Ile Ser Pro Asn Ser Ser
            20                  25                  30
Thr Ser Phe Gln Val Leu Ser Leu Tyr Ser Leu His Leu Ser Ser Ile
        35                  40                  45
Phe Leu Cys Ser Tyr Ser Val Gln Ile Glu Ala Ile Cys Arg Thr Lys
    50                  55                  60
Ser Thr Lys Ala Pro Ser Ala Leu Thr Leu Val Arg Asn Leu His Ser
65                  70                  75                  80
Phe Phe Tyr Phe Leu Lys Ile Tyr Ser Phe Phe Lys Lys Lys Gly Tyr
                85                  90                  95
His Ile Tyr His Asn Thr Ile Phe Thr Lys Lys Leu Ser Phe Ala Lys
            100                 105                 110
Thr Ser Ile Gln Ala Gln Pro Thr Pro Ala Leu Pro Thr Met Lys Ala
        115                 120                 125
Pro Thr Leu Arg Ser Val Cys Phe Leu Glu Gly Ile Thr Phe Gly Arg
    130                 135                 140
Asn Arg Pro Gly His Gly Ser Phe Val His Gln Lys Xaa Gly Arg Xaa
145                 150                 155                 160
Ile Asn Leu
```

<210> 23229

<211> 63
<212> PRT
<213> A.fumigatus

<400> 23229
Ser Phe Lys Ser Glu Pro Thr Ser Pro Phe Phe Ser Leu Phe Phe Phe
1 5 10 15
Asn Phe Val Phe Tyr Phe Ala Ser Arg Leu Val Phe Pro Pro Asn Ser
20 25 30
Ala Pro Trp Leu Glu Lys Val Ser Asn Val Asn Ala Leu Val Met Val
35 40 45
Phe Ser Gln Arg Ala Trp Lys Val His Glu Tyr Cys Ala Lys Lys
50 55 60

<210> 23230
<211> 147
<212> PRT
<213> A.fumigatus

<400> 23230
Gly Gly Ile Pro Asp Leu Ser Thr Leu Val Leu Lys Lys Ser Asp Pro
1 5 10 15
Pro Thr Thr Pro Asn Trp Phe Leu Ala Gln Leu Tyr Arg Gln Ser Thr
20 25 30
Trp Val Tyr Leu Tyr Arg Thr Ile Arg Pro Ser Lys Pro Ser Asp Lys
35 40 45
Ile Ala Gln Val Val Asp Asp Gly Leu Ser Tyr Leu Asp Gln Leu Pro
50 55 60
Gln Asp Ser Gly Ala Phe Ser Ile Val Leu Met Pro Leu Phe Leu Leu
65 70 75 80
Gly Cys Ser Ala Phe Leu Pro Arg Gln Arg Glu Arg Ile Gln Lys Gly
85 90 95
Phe Glu Ser Leu Lys Ala Tyr Ser Asn Leu Arg Asn Ile Glu Pro Ala
100 105 110
Phe Lys Val Val Arg Arg Val Trp Glu Ile Met Asp Thr Lys Thr Glu
115 120 125
Asp Ser Trp Asp Trp Glu Lys Ile Ile Asn Asp Met Asn Met Asp Phe
130 135 140
Leu Ile Thr
145

<210> 23231
<211> 225
<212> PRT
<213> A.fumigatus

<400> 23231
Arg Leu Arg Ser Asp Leu Ala Gln His Phe Leu Met Lys Ala Asn Val
1 5 10 15
Thr Ala Ile Arg Arg Val Arg Lys Thr Asp Asn Asn Arg Ile Ala Arg
20 25 30
Ala Thr Gly Ala Thr Ile Val Asn Arg Val Asp Asp Leu Gln Glu Ser
35 40 45
Asp Val Gly Thr Arg Cys Gly Leu Phe Glu Ile Glu Lys Ile Gly Asp
50 55 60
Glu Tyr Phe Thr Phe Leu Arg Lys Cys Gln Glu Pro Lys Ala Cys Thr

65 70 75 80
Ile Leu Leu Arg Gly Pro Ser Lys Asp Ile Leu Asn Glu Ile Glu Arg
85 90 95
Asn Leu Gln Asp Ala Met Ser Val Ala Arg Asn Val Ile Phe His Pro
100 105 110
Arg Leu Cys Pro Gly Gly Gly Ala Ile Glu Met Ala Val Ser Val Lys
115 120 125
Leu Ser Gln Leu Ala Lys Ser Ile Glu Gly Val Gln Gln Trp Pro Tyr
130 135 140
Lys Ala Val Ala Asp Ala Met Glu Val Ile Pro Arg Thr Leu Ala Gln
145 150 155 160
Asn Ala Gly Ala Ser Pro Ile Arg Val Leu Thr Arg Leu Arg Ala Lys
165 170 175
His Val Glu Gly Gln His Thr Trp Gly Leu Asp Gly Asp Ser Gly Asn
180 185 190
Leu Val Asp Met Lys Glu Tyr Gly Val Trp Glu Pro Glu Ala Val Lys
195 200 205
Leu Gln Ser Ile Lys Thr Ala Val Glu Val Arg Pro Lys Thr Ile Pro
210 215 220
Ile
225

<210> 23232
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23232
Cys His Cys Leu Thr Arg Lys Pro Ser Tyr Cys Tyr Thr Asn Lys His
1 5 10 15
Glu Thr Asn Thr Asp Lys Met Asn Thr Thr Cys Ser Ile Val Trp Phe
20 25 30
Ala Asn Val Asp Leu Asn Gly Leu Ile Glu Ile Ala Lys Leu Val Ile
35 40 45
Leu Ala Phe Phe Tyr Arg Leu Lys Pro Gln Gln Asn Asn Met Val Ile
50 55 60
Leu Val Arg Asp Ile Asn
65 70

<210> 23233
<211> 246
<212> PRT
<213> A.fumigatus

<400> 23233
Thr Leu Lys Glu Arg Trp Glu Asn Arg Leu Pro Lys Pro His Val Tyr
1 5 10 15
Arg Val Ser Pro Lys Asp Arg Glu Cys Ile Asp Arg Thr Phe Asp Pro
20 25 30
Leu Arg Glu Ala Gly Lys Leu Ser Pro Ala Thr Gly His Thr Pro Ser
35 40 45
Ala Tyr Pro Val Phe Val Val Trp Lys Thr Val Thr Asp Gln Asn Gly
50 55 60
Gln Thr Lys Glu Lys Gly Arg Val Val Ile Asp Leu Arg Gly Val Asn
65 70 75 80
Lys Glu Val Val Pro Asp Leu Tyr Pro Ile Pro Ile Gln Glu Asp Ile

```
                85                  90                  95
Ile Asn Met Val Arg Gly Cys Arg Tyr Ile Thr Val Ile Asp Ala Cys
            100                 105                 110
Arg Phe Phe Tyr Gln Trp Pro Val Lys Arg Ser His Arg Asn Arg Leu
        115                 120                 125
Ala Val Val Ser His Arg Gly Gln Glu Ile Phe Asn Val Ala Ile Met
    130                 135                 140
Gly Phe Ile Asn Ser Val Pro Tyr Val Gln Arg Gln Met Asp Arg Leu
145                 150                 155                 160
Leu Asn Asp Leu Glu Phe Ala Arg Thr Tyr Val Asp Asp Ile Ile Ile
                165                 170                 175
Ala Ser Met Thr Phe Asp Glu His Leu Asn His Leu Ser Thr Val Leu
            180                 185                 190
Gln Arg Leu Gln Asp Ile Gly Ile Arg Leu Glu Pro Thr Lys Ala Phe
        195                 200                 205
Val Gly Phe Pro Ser Val Gln Leu Leu Gly Gln Arg Val Asp Ala Leu
    210                 215                 220
Gly Leu Ser Thr Pro Glu Glu Lys Leu Ala Ala Ile Arg Thr Leu Glu
225                 230                 235                 240
Phe Pro Arg Asn Leu Lys
                245
```

<210> 23234
<211> 208
<212> PRT
<213> A.fumigatus

<400> 23234

```
Ile Ser Ile Gly Gly Pro Ile Gln Ile Asp Val Phe Val Phe Tyr Leu
1               5                   10                  15
Phe Ile Arg Pro Ser Ala Phe Ala Val Arg Pro Val Met Leu Ser Ser
            20                  25                  30
Thr Leu Tyr Ala Gly Trp Leu Leu Ser Leu Ala Ala Pro Ala Leu Cys
        35                  40                  45
Val Val Gln Glu Lys Leu Ser Ala Val Pro Ser Gly Trp Thr Leu Ile
    50                  55                  60
Glu Asp Ala Ser Glu Ser Asp Thr Ile Thr Leu Ser Ile Ala Leu Ala
65                  70                  75                  80
Arg Gln Asn Leu Asp Gln Leu Glu Ser Lys Leu Thr Thr Leu Ala Thr
                85                  90                  95
Pro Gly Asn Pro Glu Tyr Gly Lys Trp Leu Asp Gln Ser Asp Ile Glu
            100                 105                 110
Ser Leu Phe Pro Thr Ala Ser Asp Asp Ala Val Leu Gln Trp Leu Lys
        115                 120                 125
Ala Ala Gly Ile Thr Gln Val Ser Arg Gln Gly Ser Leu Val Asn Phe
    130                 135                 140
Ala Thr Thr Val Gly Thr Ala Asn Lys Leu Phe Asp Thr Lys Phe Ser
145                 150                 155                 160
Tyr Tyr Arg Asn Gly Ala Ser Gln Lys Leu Arg Thr Thr Gln Tyr Ser
                165                 170                 175
Ile Pro Asp His Leu Thr Glu Ser Ile Asp Leu Ile Ala Pro Thr Val
            180                 185                 190
Phe Phe Gly Ser Ser Pro Arg Gly Ser Lys Gln Lys Arg Cys Gly Arg
        195                 200                 205
```

<210> 23235

<211> 72
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (62),(67),(68),(69),(70)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23235
Leu Ser Lys Asp Asn Leu Thr Ala Gly Leu Asp Thr Met Ala Ile Ser
1 5 10 15
Lys Val Gln Pro Ala Ile Leu Val Phe Ile His Ser Val Phe Trp Pro
20 25 30
Tyr Cys Ser Phe Leu Asn Lys Ile Asn Lys Ser Leu Val Ile Asn Leu
35 40 45
Ser Ala Tyr Leu Ser Val Phe Thr Thr Gly Leu Glu Asp Xaa Ser Ala
50 55 60
Asn Lys Xaa Xaa Xaa Xaa Pro Ser
65 70

<210> 23236
<211> 135
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (84),(130)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23236
Gln Val Ala Ala Asp Ala Ile Asp Ile Tyr Val Leu Gly Val Gln Gly
1 5 10 15
Leu Asp Glu Ile Val Ala Trp Ser Thr Ala Ser Val His Gly Leu Pro
20 25 30
Leu Ala Ser Ala Val Pro Gly Asn Thr Phe Asp Pro Val Gln Leu Thr
35 40 45
His Glu Cys Lys Gln Ile Ser Gln Ala Ile Ile Lys Ala Lys Gly Ala
50 55 60
Met Pro Leu Gly Ile Gly Ala Ile Ile Ser Met Ile Cys Leu Ser Ile
65 70 75 80
Leu Gly Glu Xaa Arg His Val Leu Pro Ile Ser His Phe Gln Lys Glu
85 90 95
Tyr Gly Cys Cys Phe Thr Leu Pro Leu Val Leu Gly Thr Lys Gly Asn
100 105 110
Ser Leu Asn Asn Ser Tyr Pro Val Asn Gly Gly Gly Met Gly Trp Asn
115 120 125
Pro Xaa Val Phe Pro Ser Leu
130 135

<210> 23237
<211> 212
<212> PRT
<213> A.fumigatus

<400> 23237
Ser Pro Gln Ser Ser Leu Thr Cys Thr Leu Thr Asp Ser Asp Cys Thr
1 5 10 15
Phe Ser Thr Ala Leu Val Ile Met Leu Ser Thr Asp Gly Pro Arg Ile
20 25 30
Gly Ile Ile Gly Val Ser Gln Val Gly Ala Ala Ala Ala Asn Ala Leu
35 40 45
Ile Met Asn Ser Val Ala Arg Glu Leu Ile Leu Val Asp Ile Lys Thr
50 55 60
Glu Leu Arg Asn Ala Gln Val Gln Glu Leu Ser Asp Val Ser Arg Met
65 70 75 80
Ser Gly Arg Ala Glu Thr Arg Val Arg Ala Gly Thr Tyr His Glu Ala
85 90 95
Gly Gln Cys Asp Ile Ile Leu Ile Thr Ala Gly Ser Lys Phe Ser Val
100 105 110
Gly Glu Thr Ser Val Gln His Met Tyr His Asn Leu Gly Ile Val Arg
115 120 125
Ser Val Ile Gln Ala Met Arg Pro Phe Arg Ser Asp Ala Ile Leu Ile
130 135 140
Val Val Ser Asn Pro Val Asp Leu Leu Thr Thr Leu Ala Gln Gln Leu
145 150 155 160
Ser Gly Leu Pro Arg Ser Gln Val Met Gly Ser Gly Thr Leu Leu Asp
165 170 175
Ser Val Arg Leu Arg Gly Leu Leu Ala Asn Lys Val Gly Val Arg Glu
180 185 190
Asp Arg Phe Gln Asn Val Ile Trp Leu Thr Val Ala Met Thr Gly Arg
195 200 205
Arg Gly Arg His
210

<210> 23238
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23238
Pro Leu Leu Val Glu Trp Gly Leu Glu Met Tyr Ser Gln Ile Tyr Gly
1 5 10 15
Trp Gly Thr Leu Ser Tyr Gly Val His Tyr Leu Phe His Ser Met Arg
20 25 30
Thr Ser Pro Glu Gly Glu Ser Cys Leu Ser Leu Met Ala Thr Phe Tyr
35 40 45
Asn Thr Thr Asp Arg Tyr Gln Gly Thr Leu His Pro Asn Thr Leu Thr
50 55 60
Ala Glu Ile Val Gly Ser Ile Ser Pro Ser Tyr
65 70 75

<210> 23239
<211> 111
<212> PRT
<213> A.fumigatus

<400> 23239
Ser Asn Lys Leu Thr Leu Tyr Pro Ser Ser Thr Ile Asp Leu Gln Ile
1 5 10 15
Lys Lys Gln Lys Ser Ser Ala Met Pro Pro Lys Arg Lys Arg Ser Thr

```
            20                  25                  30
Glu Ser Asp Val His Asp Asp Ala Ala Arg Asn Lys Arg Phe Ala Tyr
        35                  40                  45
Leu Lys Pro Gln Val Arg Gln Val Ser Glu Arg Thr Ile Lys Ser Lys
    50                  55                  60
Trp Thr Thr Leu Pro Glu Pro Val Gln Asp Lys Val Arg Asp Met Phe
65                  70                  75                  80
Arg Ala Leu Glu Arg Pro Val Ile Val Arg Gln Pro Asn Glu Arg Lys
                85                  90                  95
Arg Ile Glu Gly Leu His Gln Ala Ala Gly Arg Ile Arg Ser Met
            100                 105                 110
```

<210> 23240
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23240

```
Leu Val Thr Pro Gly Lys Leu Leu Gln Ala Leu Leu Leu Pro Leu Ser
1               5                   10                  15
His Pro Glu Leu Ser Thr Gly Ser Cys Pro Thr Ser Cys Phe Asp Ile
            20                  25                  30
Ser Ser Thr Ile Ala Ser Pro Leu Leu Val Ser Leu Phe Ile Leu Val
        35                  40                  45
Asp Leu Pro Ile Ser Asn Ser Ala Cys Trp Phe Val Cys Ser Ile Tyr
    50                  55                  60
Val Gln Gln Leu
65
```

<210> 23241
<211> 150
<212> PRT
<213> A.fumigatus

<400> 23241

```
Ser Val Asp Tyr Phe Ala Ala Ile Pro Ser Val Trp Arg Ser Tyr Arg
1               5                   10                  15
Lys Pro Ser His Arg Leu Pro Asp Gln Thr Asn Gln Thr Asp Phe Tyr
            20                  25                  30
Pro Gln Leu Trp Cys Lys Pro Arg Phe Thr Thr Ser Met Ala Thr Ser
        35                  40                  45
Thr Val Lys Glu Pro Ala Pro Gln Pro Ser Val Asp Phe Leu His Arg
    50                  55                  60
Pro Tyr Thr Arg Ala Ala Leu Pro Phe Ile Asn Gly Gly Leu Ala Gly
65                  70                  75                  80
Met Thr Ala Thr Ala Val Ile Gln Pro Ile Asp Met Ile Lys Val Arg
                85                  90                  95
Leu Gln Leu Ala Gly Glu Gly Val Arg Thr Gly Pro Arg Pro Ser Ala
            100                 105                 110
Phe Gly Val Ala Arg Asp Ile Ile Ala Ser Gly Lys Val Leu Asp Leu
        115                 120                 125
Tyr Thr Gly Leu Ser Ala Gly Cys Leu His His Gly Ala Gly Arg Ser
    130                 135                 140
Arg Ala Glu Arg Ile His
145                 150
```

<210> 23242
<211> 118
<212> PRT
<213> A.fumigatus

<400> 23242
Tyr Val Arg Glu Thr Ile Asp Cys Gly Arg Thr Glu Ser Arg Thr His
1 5 10 15
Gln Arg Ser Glu Glu Ala Ile Ser Pro Ala Asp Ile Ser Ile Leu Val
20 25 30
His Phe Ala Glu Arg Ala Leu Val Ala Asn Lys Phe Asp Met Leu Leu
35 40 45
Leu Ser Ser Glu Gly Phe Gln Gly Met Glu Thr Ser Glu Ile Thr Leu
50 55 60
Trp Asn Asp Asn Ile Thr Leu His Leu Arg Asp Asp Tyr Asn Cys Leu
65 70 75 80
Gly Ala Gln Ser Asn Gly Thr Ala Glu Glu Glu Arg Thr Lys Val His
85 90 95
Cys Val Lys Gln Gln Val Leu Lys Ser Thr His Glu Val Lys Pro Thr
100 105 110
Thr Glu Gly Lys Leu Glu
115

<210> 23243
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (82)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23243
Gln Arg Val Ser Phe Gln Pro Arg Arg Cys Lys Thr Ala Met Gln Leu
1 5 10 15
Gln Leu Glu Arg Phe Phe Leu Ile Arg Asn Thr Ala Ala Glu Met Arg
20 25 30
Phe Val Asp Gln Arg Ser Arg Tyr Leu Val Glu Val Leu Thr Val Pro
35 40 45
Trp Glu Leu Thr Gly Glu Glu Val Glu Gln Leu Arg Leu Glu Ala Glu
50 55 60
Ala Glu Glu Glu Gln Ala Glu Lys Glu Gln Glu Arg Ala Arg Met Arg
65 70 75 80
Leu Xaa Arg Arg Val Glu Arg Glu Glu Lys Asp Gln Arg Arg Ile Gln
85 90 95
Arg Met Trp Glu Arg Glu Glu Gln Phe Arg Glu Lys Glu Ala Val Leu
100 105 110
Cys Gln Glu Ala Gly Arg Arg Ala Met Arg Ala Ile Gln Arg Lys Arg
115 120 125
Val Met Asn Ile Ser Ser Glu Met
130 135

<210> 23244
<211> 145
<212> PRT

<213> A.fumigatus

<400> 23244
Arg Gly Thr Phe Asp Pro Cys Gly Glu Asp Ser Thr Gly Ala Gln Gly
1 5 10 15
Ala Gln Tyr Leu Thr Gly Thr Gly Asp Lys His Thr Ala Ile Pro Ala
20 25 30
Ala Gly Lys Ser Leu Ala Gly Pro Ser Val Pro Asp Ile Leu Ala Ala
35 40 45
Thr Arg Ala Asp Leu Ser Glu Ala Gln Arg Ala Arg Ser Glu Leu Gln
50 55 60
Ala Arg Leu Thr Glu Leu Ser Thr Glu Leu Glu Lys Leu Arg Lys Arg
65 70 75 80
Ser Thr Gln Asp Ser Arg Arg Ile His Val Leu Glu Ser Glu Val Thr
85 90 95
His Leu Gln Met Arg Val Lys Asp Arg Asp Ala Glu Leu Lys Gly Lys
100 105 110
Ala Lys Leu Leu Glu Ala Cys His Ser Phe Ile Arg His Ala Ala Thr
115 120 125
Arg Leu Leu Thr Arg Ser Leu Arg Arg Ile Ser Lys Thr Asn Ser Pro
130 135 140
Leu
145

<210> 23245
<211> 148
<212> PRT
<213> A.fumigatus

<400> 23245
His Ile Pro Pro Gly Val Trp Thr Leu Ile Phe Gly Ala Met Ile Gly
1 5 10 15
Val Glu Arg Phe Thr Val Arg Lys Leu Ala Gly Val Ile Ala Ser Leu
20 25 30
Ile Gly Ile Ile Leu Ile Ser Arg Val Asp Leu Ser Ser Thr Asp Ser
35 40 45
Pro Pro Gly Asp Asp Gly Ser Ser Gly Thr Phe Pro His Lys Thr Thr
50 55 60
Ala Glu Ile Ala Leu Gly Asp Ala Met Ala Ala Phe Ser Ala Val Met
65 70 75 80
Tyr Gly Val Tyr Thr Ile Val Leu Lys Arg Gln Val Gly Asp Glu Ser
85 90 95
Arg Val Asn Met Val Leu Phe Phe Gly Leu Val Gly Leu Phe Asn Met
100 105 110
Leu Leu Leu Trp Pro Gly Phe Val Ile Leu His Phe Thr Gly Ile Glu
115 120 125
Pro Phe Val Leu Pro Asp Thr Gly Arg Ile Trp Thr Ile Val Leu Val
130 135 140
Arg Asn Thr Ser
145

<210> 23246
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23246
Gly Pro Met Cys Ala Gln Pro Ala Phe Val Ser Lys Glu Glu Lys Asn
1 5 10 15
Ala Tyr Val Glu Glu Val Ile Lys Met Leu Asp Met Glu Asp Phe Ala
20 25 30
Glu Ala Val Val Gly Val Pro Gly Glu Gly Leu Asn Val Glu Gln Arg
35 40 45
Lys Leu Leu Thr Ile Gly Val Glu Leu Ala Ala Lys Pro Lys Leu Leu
50 55 60
Leu Phe Leu Asp Glu Pro Thr Arg
65 70

<210> 23247
<211> 316
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (252)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23247
Asp Asn Leu Ala Leu Ile Ser Ala Cys Ala Asn Trp Cys Ser Gly Leu
1 5 10 15
Asp Ser Gln Ser Ser Trp Ala Ile Cys Asn Phe Leu Arg Lys Leu Ala
20 25 30
Asp Ala Gly Gln Ala Ile Leu Cys Thr Ile His Gln Pro Ser Ala Ile
35 40 45
Leu Phe Glu Gln Phe Asp Gln Leu Leu Phe Leu Ala Arg Gly Gly Lys
50 55 60
Thr Val Tyr Phe Gly Pro Ile Gly Glu Asn Ser Gln Thr Leu Leu Lys
65 70 75 80
Tyr Phe Glu Ser His Gly Ala Arg Arg Cys Gly Asp Gln Glu Asn Pro
85 90 95
Ala Glu Tyr Met Leu Glu Val Val Asn Ala Gly Thr Asn Pro Arg Gly
100 105 110
Glu Asn Trp Phe Asp Leu Trp Lys Ala Ser Lys Glu Ala Ala Gly Val
115 120 125
Gln Ser Glu Ile Asp Arg Ile His Glu Ser Lys Arg Gly Glu Ala Glu
130 135 140
Ser Lys Asp Ser Thr Asn Pro Lys Asp Arg Glu His Glu Glu Phe Ala
145 150 155 160
Met Pro Phe Phe Lys Gln Leu Pro Ile Val Thr Val Arg Val Phe Gln
165 170 175
Gln Tyr Trp Arg Leu Pro Met Tyr Ile Ala Ala Lys Met Met Leu Gly
180 185 190
Ile Cys Ala Gly Leu Phe Ile Gly Phe Ser Phe Phe Lys Ala Asp Thr
195 200 205
Ser Leu Gln Gly Met Gln Asn Val Ile Phe Ser Val Phe Met Leu Cys
210 215 220
Ala Ile Phe Ser Ser Leu Val Gln Gln Ile Ile Pro Leu Phe Ile Thr
225 230 235 240
Gln Arg Ala Leu Tyr Glu Val Arg Glu Arg Pro Xaa Lys Thr Tyr Ser
245 250 255
Trp Lys Ala Phe Met Ile Ala Asn Ile Ile Val Glu Ile Pro Tyr Gln

```
            260                 265                 270
Ile Leu Met Gly Ile Leu Val Phe Gly Cys Tyr Tyr Tyr Ala Val Asn
        275                 280                 285
Gly Val Gln Ser Ser Glu Arg Gln Gly Leu Val Leu Leu Phe Cys Ile
    290                 295                 300
Gln Phe Ser Ser Thr Arg Ala Pro Ser Leu Asn Leu
305                 310                 315
```

<210> 23248
<211> 90
<212> PRT
<213> A.fumigatus

<400> 23248

```
Trp Arg Arg Asp Tyr Phe Asp Thr Ala Ser Phe His Val Gly Ser Lys
1               5                   10                  15
Glu Tyr Gln Gly Gly Arg Trp His Asp Tyr Thr Phe Thr His His Pro
            20                  25                  30
Phe Met Glu Ala Lys Ile Glu Thr Ser Phe Trp Tyr Asp Gly Glu Thr
        35                  40                  45
Leu Thr Leu Arg Val Asp Thr Leu Cys Arg Phe Lys Glu Lys Ala Pro
    50                  55                  60
Asp Ile Leu Ala Trp Gly Tyr Glu Asp Ser Leu Glu Val Ser Thr Pro
65                  70                  75                  80
Gly His Gln Lys Val Ala Gln Cys Ile Leu
                85                  90
```

<210> 23249
<211> 63
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23249

```
Pro Trp Tyr Ser Ser Ala Ala Ala Asp Xaa Lys Thr Cys Asp Val Glu
1               5                   10                  15
His Pro Arg Ala Phe Trp Ser Phe Ala Ser Ser Gln Ile Ser Arg Asn
            20                  25                  30
Lys Tyr Ile Glu Gly Met Gln Leu Val Val Thr Ile Trp Val Phe Pro
        35                  40                  45
Gly Glu Pro Lys Thr Ala Asp Ala Lys Met Ser Ser Leu Pro Thr
    50                  55                  60
```

<210> 23250
<211> 87
<212> PRT
<213> A.fumigatus

<400> 23250

```
Ile Gln Asn Leu Pro Thr Asp Ala Gln Ser Met Tyr Leu Ser Thr Val
1               5                   10                  15
Lys Val Pro Thr Val Met Met Ala Ile Ser Arg Ser Thr Lys Asn Gln
```

```
            20                  25                  30
Tyr Ser Phe Met Ser Asn Asn Gln Arg Arg Ile Tyr Ala Ile Glu Leu
        35                  40                  45
Leu Val Arg Ser Leu His Tyr Leu Ile Trp Leu Ser Ser Lys Val His
    50                  55                  60
Ile Tyr Thr Lys Leu Ser Pro Pro Ile Phe Leu Ser Thr Trp Phe Tyr
65                  70                  75                  80
Arg Lys Gln Ala His Pro Asn
                85
```

<210> 23251
<211> 254
<212> PRT
<213> A.fumigatus

```
<400> 23251
Val Gly Arg Asp Cys Gly Ser Phe Arg Pro Leu Val Lys Thr Val Leu
1               5                   10                  15
Phe Phe Ala Thr His Asn Ser Ala Gln Glu Leu Asp Leu Asp Leu Trp
            20                  25                  30
Pro Pro Ser Ala Ala Met Thr Phe Ala Ala Leu Pro Tyr Val Lys Ser
        35                  40                  45
Phe Tyr Ser Ala Val Tyr His Arg Leu Phe Gly Lys Leu Glu Arg Lys
    50                  55                  60
Trp Ile Ala Glu Val Gln Pro Arg Gln Ala Asp Ile Asn Glu Phe Asp
65                  70                  75                  80
Asp Asn Ala Pro Pro Glu His Pro Glu Gly Arg Asn Asp Ala Glu Asn
                85                  90                  95
Gly Gln Ile Leu Met Glu Ile Asp Leu Glu Phe Gln Val Gly Met Gly
            100                 105                 110
Asn Asp Val Arg Gln Gly Ile Leu Gly Leu His Ala Gly Glu Asn Ala
        115                 120                 125
Gln Asn Asn Gly Gln Asn Gln Gly Gly Gly Gln Asn Glu Asn Asn Leu
    130                 135                 140
Gly Leu Ala Arg Pro His Asp Leu Ile His Glu Thr Ser Asn Leu Pro
145                 150                 155                 160
Asp Ile Ile Leu Gly Ala Leu Ala Phe Pro Ala Ile Ser Ala Ser Met
                165                 170                 175
Gly Gly Leu Leu Lys Tyr Ile Leu Pro Lys Ser Trp Thr Thr Ala Pro
            180                 185                 190
Ser Ala Leu Glu Arg Gly Arg Pro Gly Leu Leu Gln Thr Arg Trp Gly
        195                 200                 205
Arg Ser Val Ile Gly Gly Cys Val Phe Val Leu Leu Lys Asp Ala Leu
    210                 215                 220
Val Leu Tyr Cys Arg Trp Lys Leu Ala Gln Thr His Arg Lys Arg Lys
225                 230                 235                 240
Val Leu Asn Tyr Asp Arg Lys Lys Lys Lys Val Val Asp His
                245                 250
```

<210> 23252
<211> 192
<212> PRT
<213> A.fumigatus

```
<400> 23252
Pro Gln Trp Tyr Gly Ser Phe Gln Pro Arg Gly Glu Asp Lys Gly Ala
```

```
1               5                   10                  15
Thr Val Ile Ala Thr Ala Gly Thr Glu Arg Lys Arg Gln Val Ala Gln
            20                  25                  30
Glu Phe Gly Ala Asp Tyr Val Ile Asp Tyr Cys Asn Gln Lys Trp Pro
        35                  40                  45
Glu Glu Val Lys Lys Leu Cys Ala Gln His Arg Thr Gly Asn Gly Lys
    50                  55                  60
Ala Gly Val Asp Val Val Tyr Asp Pro Val Gly Met Ile Asp Ala Ser
65                  70                  75                  80
Leu Lys Cys Val Ala Trp Asn Ala Arg Leu Leu Val Ile Gly Phe Ala
                85                  90                  95
Ala Gly Lys Ile Glu Lys Val Ala Leu Asn Arg Val Leu Leu Lys Asn
            100                 105                 110
Val Ser Leu Val Gly Leu His Trp Gly Gln Tyr Ala Lys Phe Glu Lys
        115                 120                 125
Glu Thr Val Gly Val Val Trp Lys Gly Ile Phe Asp Leu Val Ala Gln
    130                 135                 140
Gly Lys Phe Arg Gly Thr Ala Phe Thr Asp Glu Arg Phe Val Gly Leu
145                 150                 155                 160
Glu Ser Val Pro Arg Ala Leu Gln Ala Leu Gly Ser Arg Glu Thr Trp
                165                 170                 175
Gly Lys Val Val Val Lys Val Ile Asp Asp Glu Ala Lys Ser Lys Leu
            180                 185                 190
```

<210> 23253
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23253

```
Asp Glu Gly Leu Asp Val Gly Leu Pro Ile Phe Ser Thr Xaa Asn Arg
1               5                   10                  15
Ser Pro Gln His Ala Thr Tyr Val Phe Gly Leu Met Thr Leu Cys Leu
            20                  25                  30
Phe Gly Ile Ser Thr Phe Ala Asp Met Arg Asp Ser Leu Thr Ala Thr
        35                  40                  45
Asp Phe Gln Tyr Val Cys Ile Leu Pro Ser Glu Thr Cys Lys
    50                  55                  60
```

<210> 23254
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23254

```
Asp Val Phe Lys Leu Leu Gly Ser Glu Pro Glu Phe Lys Lys Pro Val
1               5                   10                  15
Met Ala Leu Tyr Glu Gly Ala Arg Gln Val Leu His Asn Gly Met Arg
            20                  25                  30
Phe Met Val Leu Ser Pro Val Glu Arg Tyr Val Thr Thr Ser Asn Gln
        35                  40                  45
```

```
Gly Arg Arg Leu Gly Leu Thr Phe His Pro Phe Phe Ser Ser Met
    50                  55                  60

<210> 23255
<211> 342
<212> PRT
<213> A.fumigatus

<400> 23255
Pro Arg Gly Glu Asp Val Ser Leu Glu Pro Ile Pro Ser Ser Thr Asp
1               5                  10                  15
Thr Phe Trp Ile His Ile His Ile Ala Asn Pro Ser Ala Phe Val Glu
            20                  25                  30
Pro Asp Ser Ser Ile Met Glu Tyr Ala Ala Val Arg Asn Gln Thr Leu
        35                  40                  45
Tyr Val Pro Glu Arg Thr Tyr Pro Met Leu Pro Ser Ser Leu Thr Gln
    50                  55                  60
Asn His Phe Ser Leu Ala Pro Gly Arg Pro Thr Leu Thr Phe Ser Ala
65                  70                  75                  80
Lys Met Asn Leu Gln Gly Glu Val Leu Glu Thr Lys Ile Ala Asn Gly
                85                  90                  95
Ile Val Arg Asn Val Ile Tyr Ile Thr His Asp Lys Leu Arg Ser Leu
            100                 105                 110
Phe Glu Thr Thr Thr Gly Ser Ser Asp Thr Leu Thr Val Gly Gly Thr
        115                 120                 125
Ile Thr Gln Pro His Ser Arg Glu Glu Leu Gln Ser Ser Leu Thr Pro
    130                 135                 140
Glu Asp Glu Arg Ala Phe His Thr Leu Arg Lys Leu Met Leu Ala Phe
145                 150                 155                 160
Arg Glu Tyr Arg Leu Lys Asn Gly Ala Met Glu Trp Pro Ser Pro Ala
                165                 170                 175
Asp Asn Ser Val Ser Val Phe Ala Gly Thr Ala Pro Met Lys Pro Tyr
            180                 185                 190
Thr Met Asp Ile Thr Asn Gly Arg Tyr His Leu Gly Asp Pro Ile Ile
        195                 200                 205
Gln Leu Arg Leu Gln Asp Val Asp Pro His Glu Val Pro Asp Leu Thr
    210                 215                 220
Lys Arg Asn Leu Val Ser Thr Leu Met Asn Phe Ala Cys Trp Ile Ser
225                 230                 235                 240
Gly Lys Trp Cys Ala Glu Arg Asn Ile Pro Ala Val Tyr Asp Gly Thr
                245                 250                 255
Cys Tyr His Pro Glu Tyr Pro Arg Leu Thr Asn Glu Asn Met Ala Glu
            260                 265                 270
Tyr Gly Gly Glu Gly Trp Leu His Phe Thr Pro Pro Lys Gly Ile Ser
        275                 280                 285
Ser Ser Thr Pro Ile Pro His Ile Pro Leu Gly Leu Asp Ala Tyr Ile
    290                 295                 300
Lys Ser Thr Ser Pro Leu Arg Arg Tyr Val Asp Leu Leu Ala His Tyr
305                 310                 315                 320
Gln Ile Glu Ala Ala Leu Arg Phe Ala His Ala His Gly Arg Pro Leu
                325                 330                 335
Asp Ala Ser Lys Asp Thr
            340

<210> 23256
<211> 61
```

<212> PRT
<213> A.fumigatus

<400> 23256
Pro Val Val Lys Thr Ser Pro Trp Ser Leu Phe Gln Ala Arg Pro Thr
1 5 10 15
Arg Ser Gly Tyr Thr Tyr Thr Ser Pro Thr Pro Pro His Leu Ser Asn
20 25 30
Leu Thr Ala Gln Ser Trp Asn Thr Pro Pro Cys Val Ile Arg Leu Ser
35 40 45
Met Ser Pro Ser Ala His Thr Arg Cys Cys Pro Ala His
50 55 60

<210> 23257
<211> 141
<212> PRT
<213> A.fumigatus

<400> 23257
Ser Ile Pro Gly Lys Thr Leu Arg Lys Phe Leu Leu Phe Ile Arg Ala
1 5 10 15
Leu Ile Ser Ala Glu Phe Leu Ser Arg Ser Pro Phe Thr Leu Val Ser
20 25 30
Ser Leu Ala Val Cys Val Glu Glu Asp Glu Ala Glu Glu Ala Glu Glu
35 40 45
Gly Ser Ser Leu Pro Leu Trp Pro Ile Val Pro Pro Thr Ala Pro Pro
50 55 60
Thr Met Ala Pro Met Met Met Lys Ala Arg Ile Ala Pro Thr Ile His
65 70 75 80
Pro Arg Phe Leu Leu Pro Pro Pro Gly Phe Gly Phe Thr Gln Arg Pro
85 90 95
Phe Ser Pro Ala Ser Arg Pro Ala Pro Gly Thr Gly Pro Tyr Asp Val
100 105 110
Ser Ala Ala Leu Leu Pro Pro Lys Ser Pro Pro Arg Phe Pro Lys Thr
115 120 125
Pro Pro Ala Ala Ala Pro Pro Ala Ala Ala Gly Met Ala
130 135 140

<210> 23258
<211> 266
<212> PRT
<213> A.fumigatus

<400> 23258
Ile Ser Leu Trp Gly Gln Pro Leu Pro Pro Leu Asp Ser Trp Thr Pro
1 5 10 15
Gly Gln Ser Val Ser His Leu Ser Ser Thr Asn Pro Ser Gln Arg Asn
20 25 30
Leu Tyr Asp Ile Pro Tyr Gln Asp Val Gly Gly Leu Asn Ala Gly Pro
35 40 45
Tyr Gln Arg His Ser Ala Tyr Ser Ser Asn Asp Leu Pro Val Asp Ile
50 55 60
Asn Pro Asp Glu Ile Val Asp Asp Gly Asp Asp Gly Phe Val Pro Ala
65 70 75 80
Pro Asn Ser Gly Ser Gly Ala Arg Lys Ser Gln Ala Ile Pro Ala Ala
85 90 95

```
Ala Gly Gly Ala Ala Ala Gly Gly Val Leu Gly Asn Leu Gly Gly Leu
            100                 105                 110
Phe Gly Gly Lys Ser Ala Ala Asp Thr Ser Tyr Gly Pro Val Pro Gly
        115                 120                 125
Ala Gly Leu Glu Ala Gly Glu Lys Gly Arg Trp Val Lys Pro Lys Pro
    130                 135                 140
Gly Gly Gly Asn Lys Lys Arg Gly Trp Ile Val Gly Ala Ile Leu Ala
145                 150                 155                 160
Phe Ile Ile Ile Gly Ala Ile Val Gly Gly Ala Val Gly Gly Thr Ile
                165                 170                 175
Gly His Arg Gly Asn Glu Glu Pro Ser Ser Ala Ser Ser Ala Ser Ser
            180                 185                 190
Ser Ser Thr Gln Thr Ala Ser Glu Asp Thr Ser Val Asn Gly Asp Leu
        195                 200                 205
Asp Lys Asn Ser Ala Glu Ile Lys Ala Leu Met Asn Asn Lys Asn Leu
    210                 215                 220
Arg Lys Val Phe Pro Gly Ile Asp Tyr Thr Pro Trp Gly Val Gln Tyr
225                 230                 235                 240
Pro Leu Cys Leu Lys Tyr Pro Pro Ser Gln Asn Asn Val Thr Arg Asp
                245                 250                 255
Met Ala Val Leu Thr Gln Leu Thr Lys Ser
            260                 265
```

<210> 23259
<211> 107
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23259

```
Pro Arg Arg Thr Gln Trp Pro Gln Thr Glu Ala Asp Gly Phe Arg Thr
1               5                   10                  15
Tyr His Val Ile Met Tyr Asp Ile Asp Leu Ser Asp Arg Asp Ile Leu
            20                  25                  30
Ser Ser Leu Thr Xaa Thr Ala Phe Arg Val Lys Thr Glu Glu Ser Trp
        35                  40                  45
His Leu Thr Thr Leu Asn Asp Thr Asp Ser Thr Ile Asn Glu Met Gln
    50                  55                  60
Leu Glu Leu Phe Arg Glu Gln Trp Glu Arg Tyr Lys Glu Asn Pro Trp
65                  70                  75                  80
Asp Thr Glu Met Arg Gly Gln Ile Phe Phe Arg Gln Glu Thr Gln Ile
                85                  90                  95
Gln Leu Phe Glu Arg Ile Ile Asp Leu Glu Glu
            100                 105
```

<210> 23260
<211> 157
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (10),(12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23260
Ala Ile Asp Asn Thr Gly Thr Pro Pro Xaa Thr Xaa His Ile Asn Ala
1 5 10 15
Lys Arg Lys Lys Lys Asn Ala Asp Ala Leu Pro Gln Arg Ala Ala Ala
20 25 30
Ala Arg Thr Thr Ser Ser Ala Gly Gly Ala Gln Gly Ala Asp Asp Lys
35 40 45
Val Ile Gln His Asn Ser Gly Gly Gln Val Asn Ile Asp Gly Phe Thr
50 55 60
Val Tyr Asp Phe Gly Lys Leu Tyr Arg Ser Cys Gly Asn Cys Asp Glu
65 70 75 80
Gln Tyr Ala Arg Thr Val Thr Ile Lys Asn Val Val Ala Asn Ser Gly
85 90 95
Lys Thr Leu Val Gly Ile Asn Ser Asn Leu Gly Asp Thr Ala Ser Ile
100 105 110
Asp Ser Ser Thr Cys Ala Thr Asp Val Lys Lys Ile Cys Val Glu Tyr
115 120 125
Lys Gly Asn Asp Thr Gly Ala Glu Pro Glu Glu Ile Ser Glu Gly Pro
130 135 140
Ser Asp Ala Cys Gln Tyr Ser Glu Pro Leu Ser Ser Cys
145 150 155

<210> 23261
<211> 190
<212> PRT
<213> A.fumigatus

<400> 23261
Glu Arg Cys Ser Phe Gln Pro Ala Gly Leu Lys Thr Asn Arg Tyr Ala
1 5 10 15
Glu Leu Pro Val Ser Glu Leu Leu Phe Glu Leu Ala Ser Pro Cys Asp
20 25 30
Pro Glu Ser Val Thr Ser Thr Gly Leu Cys Pro Thr Glu Asp Gly Ile
35 40 45
Gly Glu Ile Ile Ser Asp Leu Leu Val Ala Phe Val Ile Lys Ser Leu
50 55 60
Leu Thr Val Val Thr Phe Gly Ile Lys Val Pro Ala Gly Ile Tyr Val
65 70 75 80
Pro Ser Met Val Val Gly Gly Leu Met Gly Arg Ile Val Gly His Val
85 90 95
Val Gln Phe Leu Val Val Lys Phe Pro Asn Phe Phe Leu Phe Ser Thr
100 105 110
Cys Pro Val Tyr Ser Gly Met Glu Ser Cys Val Val Pro Gly Val Tyr
115 120 125
Ala Met Val Ala Ala Gly Ala Thr Met Cys Gly Val Thr Arg Leu Ser
130 135 140
Val Thr Leu Ala Val Ile Leu Phe Glu Leu Thr Gly Ser Leu Asp His
145 150 155 160
Val Leu Pro Phe Ser Leu Ala Val Leu Cys Ala Lys Trp Thr Ala Asp
165 170 175
Ala Ile Glu Pro Arg Ser Ile Tyr Val Ser Leu Ala Pro Ile
180 185 190

<210> 23262
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23262
Val Gly Asp Ser Ile Asp Asp Met Thr Ala Gly His Thr Ala Gly Ala
1 5 10 15
Ala Thr Val Leu Leu Val Asn Glu His Asn Thr His Leu Lys Asp His
20 25 30
Ala His Thr Asp Leu Cys Ile Glu Arg Leu Asp Glu Leu Ile Asp Ile
35 40 45
Leu Glu Asn Gly Phe Val Gly His Arg Arg Asp Lys Pro Pro Thr Ser
50 55 60
Asp Arg Asp Glu
65

<210> 23263
<211> 153
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (33),(38),(42),(50),(82)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23263
Arg Gln Arg Gly His Asp Ala Gln Gly Arg Pro Pro Asn Arg Arg Ser
1 5 10 15
Glu Arg Glu Arg Glu Arg Gln Pro Pro Lys His Pro Asn Arg Gln Arg
20 25 30
Xaa Arg Glu Ser Lys Xaa Pro Cys Ser Xaa Trp Pro Ser Arg Phe Asp
35 40 45
Arg Xaa Thr Arg Gln Thr Tyr Arg Asp Arg Gln Asp Tyr Gly Phe His
50 55 60
Asn Ser Arg Gln Arg Ser Leu Ser Pro Asn Ala Arg Ser Ser Gln Gly
65 70 75 80
Arg Xaa Asn Asp Arg Arg Gln Pro Pro Leu Arg Ser Pro Leu Arg Asn
85 90 95
Arg Leu Glu Pro Ser Arg Arg Thr Arg Gly Gly Gly Asn Gly Gly Ser
100 105 110
Arg Asp Gly Arg Gly Gly Arg Gly Gly Gly Asn Lys Arg Gly Gly Ala
115 120 125
Ser Gly Thr Ser Asn Gly Asp Gly Tyr Arg Pro Met Pro Ser Ala Ala
130 135 140
Lys Lys Asn Trp Asp Arg Tyr Arg Leu
145 150

<210> 23264
<211> 99
<212> PRT
<213> A.fumigatus

<400> 23264
Leu Ser Arg Pro Thr Gln Cys Ile Arg Val Arg Ile Ala Glu Cys Val

```
1               5                   10                  15
Val Arg Gly Ala Ala Ser Ala Ala Asp Lys Ala Gly Ala Ser Lys Leu
            20                  25                  30
Ala Arg Gln Pro Ser Tyr Asp Thr Asn Tyr Phe Asp Thr Leu Glu Gln
        35                  40                  45
Ser Asp Gly Gly Ala Leu Ala Pro Gly Asp Lys Ala Leu Leu Asp Gln
    50                  55                  60
Val Gly Asp Ala Leu Ala Arg Leu Gly Arg Val Lys Arg Val Gly Leu
65                  70                  75                  80
Ala Val Lys Glu Lys Gln Asp Phe Leu Arg Ser Trp Thr Lys Thr Arg
                85                  90                  95
Arg Thr Trp
```

<210> 23265
<211> 188
<212> PRT
<213> A.fumigatus

<400> 23265

```
Thr Thr Asp Lys Ala Ser Ser Arg Leu Tyr Pro His Phe Ser Trp Thr
1               5                   10                  15
Leu Tyr Glu Gly Ala Val Ser His Arg Asp Asp Trp Ala Ile Val Ser
            20                  25                  30
Leu Ser Lys Ile Ile Asp Lys Met Arg Ile Ser Ser Ala Leu Leu Ala
        35                  40                  45
Leu Gly Leu Leu Pro Glu Ala Leu Cys Lys Ser Val His Pro Ala Glu
    50                  55                  60
Thr Tyr Lys Ser Cys Gln Arg Ile Thr Pro Asp Pro Leu Gln Gly Cys
65                  70                  75                  80
Pro His Gly Thr Val Phe Val Ser Gln Thr Asp His Arg Ala His Phe
                85                  90                  95
Lys Ser Ile Gln Ala Ala Ile His Ser Leu Pro Asn Asp Thr Ser Ser
            100                 105                 110
His Val Ile Leu Ile Gly Ala Gly Thr Tyr Val Glu Gln Leu Asn Val
        115                 120                 125
Thr Arg Ser Gly Pro Leu Thr Leu Leu Gly Gln Ser Asn Arg Pro Trp
    130                 135                 140
Gln Arg Glu Ser Tyr Gly Asp Ile Asn Pro Asn Thr Thr Val Gln Asn
145                 150                 155                 160
Asp Val Gln Ile Tyr Trp Asn Ala Ala Asn His Asn Ala Ala Phe Pro
                165                 170                 175
Val Phe Thr Gly Arg Leu Ala Gly His Arg Pro Asn
            180                 185
```

<210> 23266
<211> 286
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (35),(44),(54),(58)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23266

```
Met Gly Pro Ile Arg Asp Trp Arg Thr Ile Trp Asn Ser Asp Ala Ile
1               5                  10                  15
Gly Thr Phe Asp Ala Ala Leu Val Pro Ser Gln Gln Ser Leu Ser Arg
            20                  25                  30
Thr Glu Xaa Val Tyr Leu Pro Arg Gln Pro Gln Xaa Val Thr Ala Ser
        35                  40                  45
Pro Arg Leu Ser Ser Xaa Ser His Leu Xaa Gly Ser Gln Gln Gln Pro
    50                  55                  60
Pro Pro Leu Gln Arg Pro His Ala Ser Pro Glu Arg Ser Ser Ser Tyr
65                  70                  75                  80
Gly Ser Ile Gln Ser Pro Phe Gln Tyr His Ser Ala Ser Ala Leu Ser
                85                  90                  95
Ala Gly Ala Gln Ser Gln Arg Gly Gln Ser Pro Pro Pro Pro Ala Pro
            100                 105                 110
Pro Phe Ala Ser Ser Gly Ser Arg Asp Ser Tyr Ser Ala Ser Ala Ser
        115                 120                 125
Tyr Asn Thr Ala Ala Ser Leu Ala Ser Pro Tyr Thr Pro Gln Pro Ala
    130                 135                 140
Ser Ser Thr Gly Pro Phe Pro Glu Gln Gln Gln Gln Gln Ser Tyr Phe
145                 150                 155                 160
Ala Gln Gln Arg Ser Gln Ser Ile Gln Ser Val Leu Ser Pro Pro Pro
                165                 170                 175
Ala Thr Asn His Ser Phe Pro Pro Arg Asp Ser Pro Ser Ser Ala Ala
            180                 185                 190
Ser Gln Ser His Pro Ser Gln Leu Phe Ser Pro Pro Ala His Gly Ser
        195                 200                 205
Leu Pro Gly Thr Pro Arg Ala Ser Ala Thr Thr Ser Leu Pro Arg Gln
    210                 215                 220
Thr Thr Pro Ser Thr Arg Pro Gln Ser Ser Gly His Asp Ser Gln Ser
225                 230                 235                 240
His His Gly Ser Ser Pro Trp Val Gly Pro Asp Ser Gln Val His Met
                245                 250                 255
Ser Pro Thr Ser Met Pro Arg Ala Ser Arg Gln Asp Ser Arg His Arg
            260                 265                 270
Glu Leu Thr Pro Arg Gln Phe Pro Pro Arg Val Asp Arg Arg
        275                 280                 285

<210> 23267
<211> 125
<212> PRT
<213> A.fumigatus

<400> 23267
Leu Ser Ala Leu Ser Pro Ser Ala Ser Ser Ile Ala Phe Leu Arg Leu
1               5                  10                  15
Glu Ile Tyr Pro Thr Asp Ser Cys Ser Ser Gly Ser Lys Leu Ser Lys
            20                  25                  30
Leu Lys Ser Thr Ile Ser Ser Leu Thr Arg Gln Gln Tyr Ile Thr Phe
        35                  40                  45
Val Val Ile Gly Glu Leu Cys Thr Glu Thr Ser Ser Val Arg Pro Val
    50                  55                  60
Arg Ile Lys Thr Thr Asp Ile Ile Glu His Ile Leu Trp Gln Leu Leu
65                  70                  75                  80
Pro Ala Asn Asn Leu Ile Ser Val Arg Thr Leu Leu Trp Asn Met Val
                85                  90                  95
Arg Tyr Trp Leu Cys Pro Asn Leu Gln Met Pro Phe Leu Arg Ala Pro
```

```
            100                 105                 110
Asp Ser Ala Trp Ser Ala Ile Glu Ser Leu Gly Glu Ile
        115                 120                 125

<210> 23268
<211> 78
<212> PRT
<213> A.fumigatus

<400> 23268
His Tyr Leu Gln Ser Phe Asn Arg Lys Ser Asp Leu Cys Arg His Tyr
1               5                   10                  15
Arg Ile His Thr Asn Glu Arg Pro Tyr His Cys Thr Val Lys Asp Cys
            20                  25                  30
Asn Lys Ser Phe Ile Gln Arg Ser Ala Leu Thr Val His Ser Arg Thr
        35                  40                  45
His Thr Gly Glu Lys Pro His Val Cys Asp His Glu Gly Cys His Lys
    50                  55                  60
Ala Phe Ser Asp Val Ser Leu Leu Thr Pro Gly Met Ser Ser
65                  70                  75

<210> 23269
<211> 266
<212> PRT
<213> A.fumigatus

<400> 23269
Gly Arg Pro Met Leu Asn Val Ser Trp His His Pro Glu Leu Leu Val
1               5                   10                  15
Leu Leu Ser Gln Leu Gly Ala Asn Met Lys Arg Arg Ala Lys Leu His
            20                  25                  30
Gln Trp Ser Thr Leu Phe His Ala Pro Ile Lys Gly Cys Val Asn Cys
        35                  40                  45
Met Arg Thr Val Leu Glu Leu Gly Val Asp Ser Ser Ala Val Asp Glu
    50                  55                  60
Gly Gly Leu Ser Thr Met Ser Tyr Ala Ala Trp Glu Gly Pro Leu Gln
65                  70                  75                  80
Cys Met Leu Leu Leu Trp Ser His Arg Ser Glu Ser Gln Leu Pro Gln
                85                  90                  95
Lys Pro Leu Asp Ile Leu Asn Gly Leu Arg Leu Gln Glu Pro Asn Leu
            100                 105                 110
Thr Thr Met Asn His Glu Ile Val Ala Ser Ser Asp Met Asp Thr Ala
        115                 120                 125
Asp Gly Ile Pro Asp Leu Ser Leu Pro Pro Pro Ile Ile Pro Leu Arg
    130                 135                 140
Arg Tyr Gly His Asn Phe Leu Asp Lys Lys Val Phe Val Gln Ile Leu
145                 150                 155                 160
Phe Glu Pro Gly Ser Ser Gly Ser Leu Cys Phe Asp Gln Ala Gly Arg
                165                 170                 175
His Pro Ala Ala Arg Leu Thr Ile Ser Ser Lys Leu Ser Asp Leu Ile
            180                 185                 190
Pro Arg Thr Ile Met Leu Pro Ile Gln Glu Asp Ser Arg Thr Ile Ser
        195                 200                 205
Phe His Val Asp Asn Leu Glu Ser Phe Ala Val Asp Phe Glu Val Phe
    210                 215                 220
Pro Thr Phe Gly Ser Lys Val Ile Ala Lys Ser Val Ala Leu Pro Thr
```

225 230 235 240
Val Phe Arg Ala Asp Lys Ser Ser Thr Gly Ser Cys Thr Leu Pro Leu
245 250 255
Phe Asp Pro Arg Leu Arg Ser Ile Gly Gln
260 265

<210> 23270
<211> 199
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23270
Val Pro Leu Ser Xaa Arg Lys Gln Val Lys His Pro Tyr Asn Gly Gly
1 5 10 15
Lys Pro Pro Ala Gly Ala Pro Pro Gly Lys Lys Gly Asp Pro Glu Lys
20 25 30
Thr Lys Pro Glu Trp Trp Pro Ala Asp Val Val His Lys Glu Pro Asp
35 40 45
His Leu Arg Lys Asp Arg Thr Cys Thr Pro Pro Glu Gly Phe Leu Cys
50 55 60
His Val Thr Leu Leu Thr Asp Val Glu Arg Leu Ser Leu Leu Ile His
65 70 75 80
Ile Ile Arg Lys Leu Gly Arg Phe Gly Ile Thr Thr Asp Gln Leu Gln
85 90 95
Glu Ile Ala His Asp Cys Lys Arg Gln Leu Arg Gly Pro His Arg Leu
100 105 110
Gln Ile Leu Asp Glu Val Phe Arg Val Arg Arg Met Glu Glu Arg Tyr
115 120 125
Glu Arg Gly Glu Val Gly Arg Gln His Leu Leu Phe Met Lys Phe Ile
130 135 140
Leu Thr Ala Val Asp Glu Pro Gln Met Pro Thr Arg Leu Tyr Met Leu
145 150 155 160
Ser Thr Glu Ser Arg Thr Arg Lys Arg Arg Met Leu Thr Pro Thr Trp
165 170 175
Ile Trp Thr Arg Ser Met Ser Lys Lys Thr Ile Met Arg Met Arg His
180 185 190
Phe Pro Phe Thr Thr Leu Arg
195

<210> 23271
<211> 183
<212> PRT
<213> A.fumigatus

<400> 23271
Arg Ala Ser Asp Ala Asn Thr Ile Val Tyr Val Val Asn Arg Glu Ser
1 5 10 15
Asn Pro Lys Glu Lys Asp Ala Asp Ser Asn Val Asp Leu Asp Gln Lys
20 25 30
His Glu Gln Glu Asp Asp Asn Ala Asp Glu Ala Leu Pro Ile His His
35 40 45

```
Ser Glu Val Asn Ser Thr Ser Leu Met Ser Ser Ser Val Glu His Met
    50                  55                  60
Gly Met Ala Ala Pro Ser Arg Pro Met Asn Ile Gly Asp Glu Arg Asn
65                  70                  75                  80
Gln Leu Phe Pro Leu Pro Glu Ser Leu Ser Phe Gly Glu Ala Pro Arg
                85                  90                  95
Asp Asp Arg Thr Phe Phe Pro Thr Thr Ser Glu Tyr Thr Glu Asp Tyr
            100                 105                 110
Ala Ser Gln Gln Met Leu Arg Thr Pro Ala Thr Thr Ala Leu Val Ser
        115                 120                 125
Pro Asn Glu Pro Pro Ala Ala Phe Asp Tyr Met Thr Gln Ala Pro Ile
    130                 135                 140
Thr Ser Pro Gly Ser Gly Ala Tyr Phe Pro Pro Pro Pro Asn Tyr Pro
145                 150                 155                 160
Trp Pro Cys Gln Asn Arg Ala Val Ser Asn Pro Gly Thr Leu Arg Phe
                165                 170                 175
Gln Thr Asn Leu Phe Asn Pro
            180

<210> 23272
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (67)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23272
Thr Arg Tyr Phe Ser Arg Ile Pro Asn Leu Arg Val Asp Glu Val Pro
1               5                   10                  15
Val Pro Arg Leu Val Ala Lys Thr Met Thr Tyr Pro Lys Val Val Thr
            20                  25                  30
Gly Tyr Thr Lys Lys Lys Leu Gln Gln Arg Val Arg Asn Gly Pro Lys
        35                  40                  45
Lys Trp Gln Gly Ala Asn Tyr Ile Ile Lys Arg Val Ser Asp Phe Lys
    50                  55                  60
Leu Phe Xaa
65

<210> 23273
<211> 219
<212> PRT
<213> A.fumigatus

<400> 23273
Lys Tyr Gly Asn Leu Asn Met Ile Ala Asp Gln Ile Gln Glu Gly Asp
1               5                   10                  15
Val Ile Glu Arg His Ile Glu Asp Gly Asp Ile Val Leu Phe Asn Arg
            20                  25                  30
Gln Pro Ser Leu His Lys Leu Ser Ile Leu Ser His Phe Ala Lys Val
        35                  40                  45
Arg Pro His Arg Thr Phe Arg Leu Asn Glu Cys Val Cys Asn Pro Tyr
    50                  55                  60
Asn Ala Asp Phe Asp Gly Asp Glu Met Asn Leu His Val Pro Gln Thr
```

```
65                  70                  75                  80
Glu Glu Ala Arg Ala Glu Ala Met Glu Leu Met Gly Val Lys Asn Asn
                85                  90                  95
Leu Ala Thr Pro Lys Asn Gly Glu Pro Ile Ile Ser Ala Ile Gln Asp
            100                 105                 110
Phe Ile Ser Ala Ala Tyr Ile Leu Ser Ser Lys Asp Asn Phe Phe Asp
        115                 120                 125
Arg Arg Ser Phe Thr Gln Ile Cys Leu Tyr Met Leu Gly Pro Glu Thr
    130                 135                 140
Arg Phe Asp Leu Pro Pro Pro Ala Val Leu Lys Pro Gln Met Leu Trp
145                 150                 155                 160
Thr Gly Lys Gln Val Phe Asn Ile Leu Met Arg Pro Asn Lys Asp Asp
                165                 170                 175
Pro Val Leu Val Asn Leu Asp Ala Ala Cys Arg Glu Phe Lys Pro Pro
            180                 185                 190
Lys Asp Gly Arg Pro Lys Asp Leu Asp Pro Asn Asp Gly Trp Leu Val
        195                 200                 205
Ile Arg Asn Ser Glu Val Met Cys Gly Val Ser
    210                 215
```

<210> 23274
<211> 114
<212> PRT
<213> A.fumigatus

<400> 23274

```
Tyr Ala Ile Ile Lys Met Asn Trp His Asn Leu Ser Thr Ile Leu Ala
1               5                   10                  15
Val Leu Thr Ser Leu Leu Ala Leu Ile Val Cys Gly Gln Glu Asp Asn
            20                  25                  30
Leu Gly Leu Lys Asn Gly Tyr Ile Ser Leu Ser Thr Ala Asn Trp Asp
        35                  40                  45
Leu Lys Leu Val Lys Asp Ala Gln Val Leu Ala Ser Leu Thr Pro Lys
    50                  55                  60
Gly Lys Ser Phe Asp Phe Leu Pro Phe Asp Tyr Leu Ser Val Arg Thr
65                  70                  75                  80
Glu Asn Gln Gln Tyr His Asn Gly Asp Ile Thr Phe Ser Tyr Arg Ala
                85                  90                  95
Thr Gly Glu Ile Phe Thr Thr Glu Val Asp Gly Pro Ala Asn Ile His
            100                 105                 110
Gly Gly
```

<210> 23275
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23275

```
Val Leu Ile His His Asn Gly Thr Gly Lys Arg Pro Gly Val Ala Leu
1               5                   10                  15
Val Ala Ala Ser Ala Asn Tyr Trp Ser Met Leu Ile Ala Ile Leu Leu
            20                  25                  30
Gly Gly His Leu Ser Asp Asp Thr Val Asp Thr Arg Tyr Leu Thr Pro
        35                  40                  45
Tyr Val Val Thr Asp Thr Ala Asn Pro Leu Asn Thr Thr Leu Ile Pro
```

```
    50                  55                  60
Pro Arg Val Arg Met Thr
65                  70

<210> 23276
<211> 151
<212> PRT
<213> A.fumigatus

<400> 23276
Phe Gln Lys Glu His Phe Ile Glu Asp Phe Gly Leu Leu Arg Leu Lys
1               5                  10                  15
Trp Phe Thr Trp Pro Ser Ser Tyr Ser Trp Leu Pro Ile Ser Leu Thr
            20                  25                  30
Thr Arg Pro Glu Leu Gln Leu Leu Gln Leu Pro Gln His Pro Pro Val
        35                  40                  45
Arg Ser Lys Ser Gln Gln Met Glu Arg Arg Ser Arg His Gly Cys Ser
    50                  55                  60
His Gly Leu Arg Asn Ser Ile Tyr Tyr Leu Ala His Cys Leu Phe Tyr
65                  70                  75                  80
Ala Met Val Val Leu Thr Glu Ile His Ser Arg Pro Lys Thr Leu Asp
                85                  90                  95
Asp Val Ala Ala Gln Asp His Thr Thr Lys Val Leu Gln Arg Thr Leu
            100                 105                 110
Gln Ala Ser Asn Val Arg His Thr Arg Leu Pro Thr Lys Val Asn Ser
        115                 120                 125
Lys Met Asn Val Thr Asp Arg Thr Ser Ser Ser Ser Thr Thr Arg Ser
    130                 135                 140
Gly Gly Ser Ala Leu Arg Ile
145                 150

<210> 23277
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23277
Ala Leu Lys Cys Ile Ser Thr Ile Thr Pro His Pro Lys Pro Thr Ala
1               5                  10                  15
Thr Tyr Leu Ser Leu Phe Ser Asn Pro Thr Val Thr Asn Val Ala Arg
            20                  25                  30
Ile Arg Ile Pro Asp Lys Thr Val Thr Val Ile Asn Pro Phe Leu Tyr
        35                  40                  45
Ser Gly Ala Ser Thr Cys Arg Gln Thr Ile Cys Gly Asn His Ala
    50                  55                  60

<210> 23278
<211> 105
<212> PRT
<213> A.fumigatus

<400> 23278
Tyr Ile Ile Ala Gly Ala Gly Tyr Gly Leu Ser Gly Leu Leu Met Ala
1               5                  10                  15
Tyr Val Phe Pro Phe Ser Val Gly Val Ser Gln Thr Glu Asp Asn Arg
            20                  25                  30
```

```
Trp Ala His Glu Ile Cys Ala Glu Asp Asn Glu Glu Arg Ala Leu Val
        35                  40                  45
Val Gly Ser Met Asn Glu Met Ala Tyr Val Phe Gln Ala Trp Leu Pro
    50                  55                  60
Gln Ile Val Trp Arg Gln Val Glu Ala Pro Glu Tyr Arg Lys Gly Phe
65                  70                  75                  80
Ile Thr Val Thr Val Leu Ser Gly Ile Leu Ile Leu Ala Thr Phe Val
                85                  90                  95
Thr Val Gly Leu Glu Lys Arg Glu Arg
            100                 105
```

<210> 23279
<211> 329
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (268),(272),(287)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23279

```
Glu Ser Pro Val Arg Val Gln His Gln Val Pro Asn Leu Tyr Asp Asp
1               5                   10                  15
Pro Ser Ser Tyr Trp Met Gln Leu Thr Asp Ala Gly Ala Asn Gly Ala
            20                  25                  30
Asp Met Ser Ser Ser Thr Ser Ala Ala Ala Asn Gly Thr Gly Lys Glu
        35                  40                  45
Val Asp Asp Gly Ser Asp Asp Asp Gly Thr Glu Asn Pro Pro Ala Val
    50                  55                  60
Ala Ala Glu His Ser Thr Ala Lys Lys Lys Lys Asn Lys Lys Arg Lys
65                  70                  75                  80
Pro Lys Lys Lys Gln Pro Lys Val Gln Thr Asp Pro Pro Ser Ile Pro
                85                  90                  95
Leu Ser Gln Leu Phe Pro Asn Asn Ser Tyr Pro Lys Gly Glu Glu Val
            100                 105                 110
Glu Tyr Lys Asp Glu Asn Arg Tyr Arg Thr Thr Ser Glu Glu Lys Arg
        115                 120                 125
His Leu Asp Asn Leu Asn Ser Asp Phe Leu Ser Asp Tyr Arg Gln Ala
    130                 135                 140
Ala Glu Ala His Arg Gln Val Arg Gln Trp Ala Gln Arg Asn Ile Lys
145                 150                 155                 160
Pro Gly Gln Thr Leu Leu Glu Ile Ala Asn Gly Ile Glu Glu Ser Ala
                165                 170                 175
Arg Cys Leu Val Gly His Asp Gly Leu Thr Glu Gly Asp Ser Leu Ile
            180                 185                 190
Ala Gly Met Gly Phe Pro Thr Gly Leu Asn Ile Asp Asn Ile Val Ala
        195                 200                 205
His Tyr Ser Pro Asn Ala Gly Cys Lys Thr Val Leu Ala Gln Asn Asn
    210                 215                 220
Val Leu Lys Val Asp Ile Gly Ile His Val Gly Gly Arg Ile Val Asp
225                 230                 235                 240
Ser Ala Phe Thr Met Ala Phe Asp Pro Met Tyr Asp Asn Leu Leu Ala
                245                 250                 255
Ala Val Lys Asp Ala Thr Asn Thr Gly Val Arg Xaa Thr Gly Ile Xaa
            260                 265                 270
```

```
Val Arg Val Gly Glu Leu Gly Gly Tyr Ile Gln Glu Ala Met Xaa Ser
        275                 280                 285
Tyr Glu Cys Glu Ile Arg Gly Lys Thr Tyr Pro Ile Lys Ala Ile Arg
    290                 295                 300
Asn Leu Cys Gly His Thr Ile Leu Pro Tyr Ser Ile His Gly Thr Lys
305                 310                 315                 320
Met Ser Pro Leu Ser Ser Arg Thr Thr
                325
```

<210> 23280
<211> 96
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15),(19),(35),(79)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23280

```
Pro Ala Arg Gly Gly Gln Gly Cys His Gln His Gly Gly Ala Xaa Asn
1               5                   10                  15
Gly His Xaa Cys Pro Cys Gly Arg Thr Arg Arg Leu His Pro Gly Ser
            20                  25                  30
Asp Gly Xaa Leu Arg Val Arg Asn Pro Arg Gln Asp Val Pro Asp Gln
        35                  40                  45
Gly Asp Ser Gln Pro Val Trp Pro His Asp Pro Ala Val Leu His Pro
    50                  55                  60
Trp Asn Lys Asn Val Pro Phe Val Lys Ser Asn Asp Leu Thr Xaa Met
65                  70                  75                  80
Glu Glu Gly Asp Phe Leu Ala Ile Gln Thr Phe Gly Asn Thr Gly Ile
                85                  90                  95
```

<210> 23281
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23281

```
Gly Tyr Arg Leu Cys Asp Gln Leu Ser Arg Arg Trp Pro Gly Ile Arg
1               5                   10                  15
Leu Ala Gly Leu Ile Asp Gln Ser Glu Thr Phe His Lys Phe Thr Leu
            20                  25                  30
Lys Ser Arg Met Asp Val Val Leu Ala Val Ile Pro Gly His Leu Leu
        35                  40                  45
Thr Ile Tyr Gln Ala Phe Asn Gln Gly Ala Gly His Tyr Asn Ser Val
    50                  55                  60
Gly Ser Gln Pro Ser
65
```

<210> 23282
<211> 121
<212> PRT
<213> A.fumigatus

<400> 23282

```
Lys Ser Ser Ala Gln Thr Arg Val Ser Gly Leu Trp Thr Ala Ile Met
1               5                  10                  15
Gly Val Glu Thr Ala Ser Leu Gln Asp Arg Leu Glu Arg Trp Ala Gln
            20                  25                  30
Arg Leu Gln Asn Leu Thr Val Ser Pro Leu Thr Arg Asp Tyr Pro Glu
        35                  40                  45
Asn Gln Lys Ala Asp Leu Lys Arg Ala Ile Glu Ala Phe Glu Ser Leu
    50                  55                  60
Lys Leu Pro Arg Asp Val His Thr Gly Leu Gln Lys Leu Ser Gly Pro
65                  70                  75                  80
Ser Ser Gly Phe Ile Thr Phe Leu Ala Ala Phe Val Val Leu Val Ala
                85                  90                  95
Arg Leu Thr Gly Asp Glu Asp Ile Ala Cys Ala Thr Ser Ser Ala Glu
            100                 105                 110
Asp Gly Arg Ala Ser Val Leu Arg Val
        115                 120
```

<210> 23283
<211> 74
<212> PRT
<213> A.fumigatus

<400> 23283

```
Tyr Leu Asp Lys Asn Ser Leu Asn Phe Ala Ser Val Tyr Gly Leu Lys
1               5                  10                  15
Gln Gly Thr His Leu His Gly Gln Asp Tyr Ala Trp Leu Gly Ser Ile
            20                  25                  30
Phe Tyr Phe Gly Tyr Leu Ile Ala Gln Tyr Pro Ala Gly Tyr Thr Leu
        35                  40                  45
Gln Arg Leu Pro Met Gly Lys Val Leu Ser Ile Thr Thr Ile Ser Met
    50                  55                  60
Ser Leu Leu Arg Thr His Leu Asp Gln Tyr
65                  70
```

<210> 23284
<211> 135
<212> PRT
<213> A.fumigatus

<400> 23284

```
Leu Glu Thr Ile Ala Thr Met Ala Asp Asp Cys Gly Ile Gln Gly Val
1               5                  10                  15
Leu Thr Ser Leu Ala Thr Phe Thr Phe Thr Thr Asn Phe Lys His Ser
            20                  25                  30
Ser Pro Tyr Ala His Leu Leu Pro Pro Trp Ser Ala Leu Leu Thr His
        35                  40                  45
Pro Ile Asp Thr Ile Gly Gln Ala Leu Ala Val Phe Arg Met His Val
    50                  55                  60
Gln His Thr Ser Met Glu Thr Lys Glu Lys Arg Leu Lys Arg Val Glu
65                  70                  75                  80
Asp Ala Glu Lys Lys Arg Gln Tyr Arg Ile Ala His Gly Leu Glu Glu
                85                  90                  95
Pro Asn Glu Lys Thr Glu Arg Gln Asn Pro Glu Val Val Asp Asp Gln
            100                 105                 110
Ser Pro Val Ala Val Asp Ile Pro Ala Val Gly Pro Asp Glu Tyr Val
        115                 120                 125
```

```
Asp Trp Asp Arg Lys Lys Lys
    130                 135

<210> 23285
<211> 176
<212> PRT
<213> A.fumigatus

<400> 23285
Ala Leu Arg Thr Met Thr Ile Leu Val Leu Gly Gly Arg Gly Lys Thr
1               5                  10                  15
Ala Ser Arg Leu Ser Leu Leu Leu His Asn Ala Gly Val Pro Phe Leu
            20                  25                  30
Val Gly Ser Ser Ser Thr Ser Tyr Val Gly Pro Tyr Lys Met Thr His
        35                  40                  45
Phe Asp Trp Leu Asn Glu Asp Thr Trp Thr Asn Val Phe Leu Arg Ala
    50                  55                  60
Ser Leu Asp Gly Ile Asp Pro Ile Ser Ala Val Tyr Leu Val Gly Gly
65                  70                  75                  80
His Ala Pro Glu Leu Val Asp Pro Gly Ile Arg Phe Ile Asn Val Ala
                85                  90                  95
Arg Ala Gln Gly Val Asn Arg Phe Val Leu Leu Ser Ala Ser Asn Ile
            100                 105                 110
Ala Lys Gly Thr His Ser Met Gly Ile Leu His Ala His Leu Asp Ser
        115                 120                 125
Leu Glu Asp Val Gln Tyr Val Val Leu Arg Pro Thr Trp Phe Met Gly
    130                 135                 140
Lys Phe Pro Lys Thr Thr Ser Cys Arg Arg Phe Ala Glu Pro Pro Pro
145                 150                 155                 160
Arg Glu Pro Pro Gly Gly Ser Thr Cys Gln Leu Asp Gln Lys Gly Gly
                165                 170                 175

<210> 23286
<211> 96
<212> PRT
<213> A.fumigatus

<400> 23286
Gly Arg Pro Gly Ser Trp Val Ser Phe Gln Lys Pro His Pro Ala Gly
1               5                  10                  15
Gly Leu Leu Ser Pro Leu Leu Glu Asn Leu Leu Glu Asp Pro His Val
            20                  25                  30
Ser Trp Ile Lys Lys Glu Asp Lys Ile Tyr Ser Ala Thr Gly Asp Gly
        35                  40                  45
Lys Ile Pro Phe Ile Ser Ala Asp Asp Ile Ala Arg Val Ala Phe Ser
    50                  55                  60
Val Leu Thr Glu Trp Lys Ser Gln Arg Ala Gln Glu Tyr Phe Val Leu
65                  70                  75                  80
Gly Pro Glu Val Phe Ser Pro Thr Gly Glu Gly Thr Lys Leu Ser Val
                85                  90                  95

<210> 23287
<211> 209
<212> PRT
<213> A.fumigatus
```

<400> 23287
Asp Asn Ala Val Asn Ser Leu Asn Val Ile His Val Ser Gly Thr Lys
1 5 10 15
Gly Lys Gly Ser Thr Cys Ala Phe Thr Arg Ala Ile Leu Arg Ala His
20 25 30
Gly Met Arg Thr Gly Phe Pro Lys Arg Ile Gly Leu Tyr Thr Ser Pro
35 40 45
His Leu Gln Cys Ile Arg Glu Arg Ile Gln Leu Asp Asp His Pro Val
50 55 60
Pro Glu Asp Leu Phe Thr Lys Tyr Phe Phe Glu Val Trp Asp Cys Val
65 70 75 80
Met Pro Glu Asp Ile Gln Gln Asp Ser Gly Val Ala Arg Gln Pro Arg
85 90 95
Tyr Leu Gln Phe Leu Ala Leu Leu Ala Phe His Thr Phe Ile Arg Glu
100 105 110
Gly Val Gln Ala Ala Ile Phe Glu Val His His Gly Gly Glu Tyr Asp
115 120 125
Val Thr Asn Val Ile Gln Ser Pro Val Ala Thr Gly Ile Thr Ser Leu
130 135 140
Gly Val Asp His Val Ala Gln Leu Gly Pro Thr Ile Glu Ala Ile Ala
145 150 155 160
Trp His Lys Ala Gly Ile Phe Lys Pro Gly Ala Pro Ala Phe Ser Val
165 170 175
Asn Gln Lys Pro Gly Pro Ala Asp Val Met Arg Lys Arg Ala Leu Asp
180 185 190
Lys Gly Thr Thr Leu Thr Phe Val Ser Thr Asn Tyr Ile Ser Pro Gly
195 200 205
Arg

<210> 23288
<211> 139
<212> PRT
<213> A.fumigatus

<400> 23288
Leu Asn Leu Pro Ser Val Thr Asp Ala Val Asn Asp Asp Asn Ser Val
1 5 10 15
Ile Ala Leu Ser Asn Asn Thr Met Glu Thr Leu Gln Leu Phe Arg Gly
20 25 30
Asp Thr Val Leu Val Lys Gly Lys Lys Arg Lys Asp Thr Val Leu Ile
35 40 45
Val Leu Ala Asp Asp Asp Leu Asp Asp Gly Ser Ala Arg Ile Asn Arg
50 55 60
Val Val Arg His Asn Leu Arg Val Lys His Gly Asp Ile Ile Thr Val
65 70 75 80
His Pro Cys Pro Asp Ile Lys Tyr Val Gly Leu Pro Leu Cys Ile Leu
85 90 95
Ser Asn Glu Asn Gly Lys Leu Thr Leu His Leu Ser Ala Gly Gln Ala
100 105 110
Asp Cys Arg Pro Ser His Cys Lys His Arg Ile Arg Ser Asp Trp Ile
115 120 125
Pro Phe Arg Arg Leu Pro Arg Pro Ile Leu Pro
130 135

<210> 23289

<211> 63
<212> PRT
<213> A.fumigatus

<400> 23289
Arg Gln Ala Tyr Ile Phe Asp Ile Trp Ala Arg Val Asn Gly Asp Asp
1 5 10 15
Val Thr Val Leu Asp Thr Gln Ile Val Pro His Asn Thr Val Asp Ala
20 25 30
Gly Ala Ser Ile Ile Gln Val Ile Ile Ser Lys His Asn Gln Asn Gly
35 40 45
Ile Leu Pro Phe Leu Ala Leu His Gln His Cys Val Thr Thr Glu
50 55 60

<210> 23290
<211> 97
<212> PRT
<213> A.fumigatus

<400> 23290
Asn Thr Lys Leu Phe Leu Ala Arg Cys Pro Leu His Val Val Lys Glu
1 5 10 15
Val Glu Leu Ile Gly His Phe Asp His Ile Val Ser Ile Ile Ile Gly
20 25 30
Asn Ala Asn Gly Thr Cys Gln Pro Thr Val Asp Ala Val Cys Lys Thr
35 40 45
Leu Arg Asp Ser Arg Tyr His Ala Lys Val Asn Trp Ser Met Asp Lys
50 55 60
Val His Ile His Met Phe Lys Ala Lys Pro Phe Gln Arg Ala Ser Glu
65 70 75 80
Phe Val Phe Gln Thr Val Arg Leu Glu Lys Asp Val Cys Arg Val Trp
85 90 95
Pro

<210> 23291
<211> 238
<212> PRT
<213> A.fumigatus

<400> 23291
Leu Arg Lys Met Ser Val Ala Gly Ser Gln His Val Leu Gln Thr Gly
1 5 10 15
Leu His Ser Gly Met Ser Ala Thr Glu Gly Pro Met His Ser Pro His
20 25 30
Pro Asn Pro Val Asp Pro Lys Met Ser Glu Glu Ser Tyr Val Leu Pro
35 40 45
Ser Glu Ile Ile Pro Asp Ser Arg Ala Arg Ile Thr Leu Arg Gly Lys
50 55 60
Ala His Asp Val Leu Val Pro Tyr Ile Cys Ile Gly Ala Trp Ser Trp
65 70 75 80
Gly Asp Lys Ala Thr Trp Lys Tyr Asp Ala Glu Arg Asp Leu Pro Arg
85 90 95
Ile Arg Ala Ala Trp Ser Lys Leu Arg Gln Val Gly Leu Thr Phe Val
100 105 110
Asp Thr Ala Pro Ala Tyr Gly Asp Gly Asp Ser Glu Arg Ile Cys Gly

```
        115                 120                 125
Gln Leu Phe Lys Asp Met Arg Arg Glu Glu Phe Ile Ile Gln Thr Lys
    130                 135                 140
Trp Met Ser Trp Pro Asp Pro Thr Asn Val Phe Leu Gln Ser His Gly
145                 150                 155                 160
Leu Glu Asn Glu Leu Arg Ser Ser Leu Glu Arg Leu Gly Leu Glu His
                165                 170                 175
Val Asp Val Tyr Leu Val His Gly Pro Ile His Leu Ser Met Ile Ser
            180                 185                 190
Thr Val Ala Gln Gly Leu Ala Asn Cys Val Asn Ser Gly Leu Ala Arg
        195                 200                 205
Thr Val Gly Val Ala Asn Tyr Asp Arg Asp Asp Met Ile Lys Met Ala
    210                 215                 220
Asp Glu Leu Asp Leu Leu His His Val Glu Arg Ala Ala Arg
225                 230                 235
```

<210> 23292
<211> 97
<212> PRT
<213> A.fumigatus

<400> 23292

```
Ser Arg Leu Ser Ser Ala Leu Arg Asp His Thr Gly Ala Ala His Val
1               5                   10                  15
Thr Leu Pro Leu Val Thr Gly Glu Thr Trp Val Lys Val Pro Glu Ser
            20                  25                  30
Ile Ser Ile Arg Leu Val Gly Val Pro Lys Pro Gly Ile Gly Gly Lys
        35                  40                  45
Asp Val Ile Leu Tyr Ile Leu Gln Gln Leu Lys Arg Asn Thr Val Ala
    50                  55                  60
Ser Asp Arg Ile Val Glu Phe Ser Gly Ala Gly Val Gln Tyr Leu Ser
65                  70                  75                  80
Ala Asp Ala Arg Phe Ala Ile Cys Asn Met Thr Ala Val Arg Arg Cys
                85                  90                  95
Ser
```

<210> 23293
<211> 195
<212> PRT
<213> A.fumigatus

<400> 23293

```
Leu Met Lys Glu Leu Gly Gly Ile Thr Gly Ile Phe Val Pro Asp Gln
1               5                   10                  15
Ile Thr Arg Ala Phe Val Ala Asn Arg Arg Leu Gln Arg His Lys Asn
            20                  25                  30
Leu Ile Thr Tyr Phe Arg Pro Asp Asn Asp Ala Gln Tyr Ala Ala Glu
        35                  40                  45
Leu Asp Ile Asp Leu Ala Asn Val Gln Ser Phe Phe Ala Arg Tyr Pro
    50                  55                  60
Arg Pro Asp Asp Val Val Pro Val Ser Asp Tyr Ala Gly Met Gln Leu
65                  70                  75                  80
Asp Gly Cys Phe Ile Gly Ala Cys Thr Thr Thr Glu Glu Asp Leu Ile
                85                  90                  95
Leu Ala Ala Leu Val Leu Glu Gln Gly Leu Lys Lys Gly Tyr Arg Pro
```

```
            100                 105                 110
Val Asn His Gly Lys Arg Lys Met Val Pro Gly Ser Leu Pro Ile Leu
        115                 120                 125
His Arg Leu Arg Glu Leu Cys Leu Thr Gly Val Phe Glu Ala Ala Gly
    130                 135                 140
Phe Glu Ile Gly Val Pro Gly Cys Ser Tyr Cys Val Gly Met Ser Ala
145                 150                 155                 160
Asp Gln Ala Val Ser Gly Glu Val Trp Leu Ser Ser Gln Asn Arg Asn
                165                 170                 175
Phe Glu Asn Arg Met Gly Lys Gly Leu His Ala Cys Arg Leu Ser Arg
            180                 185                 190
Leu Phe Ser
        195
```

<210> 23294
<211> 182
<212> PRT
<213> A.fumigatus

<400> 23294

```
Trp Arg Asn Thr Ser Pro Trp Met Ser Glu Thr Phe Lys Leu Thr Pro
1               5                   10                  15
Asn Asp Arg Phe Thr Met Leu Ser Gly Ile Ala His Asp Pro Ile Gln
            20                  25                  30
Arg Asp Ile Phe Thr Pro Leu Phe Leu Gly Ala Gln Leu Leu Val Pro
        35                  40                  45
Ala Arg Glu Asp Ile Gln Asn Glu Lys Leu Ala Glu Trp Met Arg Glu
    50                  55                  60
Tyr Ser Ala Thr Val Thr His Leu Thr Pro Ala Met Gly Gln Ile Leu
65                  70                  75                  80
Val Gly Gly Ala Ser Ala Gln Phe Pro Ala Leu His His Ala Phe Phe
                85                  90                  95
Val Gly Asp Ile Leu Ile Lys Arg Asp Cys Arg Ser Leu Gln Ala Leu
            100                 105                 110
Ala Pro Asn Val Asn Ile Val Asn Met Tyr Gly Thr Thr Glu Thr Gln
        115                 120                 125
Arg Ala Val Ser Tyr Tyr Glu Ile Pro Ser Tyr Ser Ser Gln Glu Gly
    130                 135                 140
Phe Leu Asp Thr Met Lys Asp Val Ile Pro Ala Gly Arg Gly Met Val
145                 150                 155                 160
Asp Val Gln Met Leu Val Val Asn Arg Phe Asp Pro Ser Arg Ile Cys
                165                 170                 175
Ala Ile Gly Ala Val Cys
            180
```

<210> 23295
<211> 223
<212> PRT
<213> A.fumigatus

<400> 23295

```
Met Gln Val Met His Ser Val Phe Ser Gly Glu Arg Cys Phe Leu Ala
1               5                   10                  15
Ser Glu Arg Trp His Ala Val Met Arg Gln Arg Ile Asn Ser Phe Tyr
            20                  25                  30
Ser Glu Glu Leu Glu Asp Leu Leu Glu Glu Phe Ile Ala Leu Phe Thr
```

```
        35                  40                  45
Leu Ala Pro Ser Leu Val His Ala Leu Tyr Asp Ile Lys Ala Ser Asp
    50                  55                  60
Met Thr Ser Pro Ala Thr Trp Lys Lys Ala Ser Glu Thr Leu Thr Arg
65                  70                  75                  80
Ile Leu Glu Met Gln Asn Arg Leu Leu Glu Trp Tyr Ser Arg Phe Ser
                85                  90                  95
Arg Ile Ala Pro Pro Ala Cys Glu Arg Leu Ser Ala Thr Asn Asp Ala
            100                 105                 110
Val Tyr Pro Thr Val Leu Tyr Tyr Ser Asp Leu Asn Ile Ala Ser Ile
        115                 120                 125
Phe Asn Ser Tyr His Ala Tyr Met Ala Ile Ile His Glu Ala Leu Arg
    130                 135                 140
Thr Leu Gly Tyr Pro Gly Glu His Gly Ala Met Val Ala Phe Phe Arg
145                 150                 155                 160
Asp Gln Ile Cys Lys Ser Val Glu Tyr Asn Gly Ala Gly Pro Leu Gly
                165                 170                 175
Pro Tyr Arg Met Gly Phe Pro Leu Arg Val Ala Tyr Glu Val Ala Asp
            180                 185                 190
Pro Lys Thr Lys Ala Trp Ile Glu Asn Arg Leu Ala His Met Ser Gln
        195                 200                 205
Tyr Tyr Ala Ala Val Gln Pro Asn Asn Phe Ala Thr Gln Phe Asp
    210                 215                 220
```

<210> 23296
<211> 68
<212> PRT
<213> A.fumigatus

```
<400> 23296
Asn His Asn Asn Tyr Arg Lys Arg Trp Tyr Thr Val Ala Val Val Asp
1               5                   10                  15
Pro Phe Arg Trp Arg Phe Ala Ser Ser Ser Pro Leu Val Leu Leu Ala
            20                  25                  30
Pro Phe Ser Val Ala Gln Glu His Pro Ile Ser Val Ile Val Val Val
        35                  40                  45
Ala Ala Thr Glu Thr Pro Ala Thr Lys Arg His Arg Ser Asn Leu Ser
    50                  55                  60
Val Arg Tyr His
65
```

<210> 23297
<211> 151
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (60)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23297
Val Thr Lys Ala Tyr Ser Thr Pro Ile Arg Ile Ala Asp Leu Thr Arg
1               5                   10                  15
Val Leu Val Gly Ala Pro Arg Arg Ser Gly Pro Ile Pro Asn Ser Ser
            20                  25                  30
```

```
Gly Thr Leu Ala Val Asn Thr Gln Thr Ser Tyr Ser Phe Asp Ser His
        35                  40                  45
Ser Lys Thr Asn Glu Ile Arg Val Leu Asp Ile Xaa Thr Gly Arg Ser
    50                  55                  60
Ala Leu Ile Thr Asn Asp Pro Gly Ala Ser Ser Pro Gln Trp Leu Glu
65                  70                  75                  80
Asn Ser Asp Gln Leu Val Trp Leu Lys Thr Lys Ala Asn Gly Asn Thr
                85                  90                  95
Ser Phe Ile Val Gly Asp Ala Arg Glu Val Asp Lys Thr Tyr Thr Ala
            100                 105                 110
Gly Thr Val Pro Gly Pro Val Ser Asp Leu Lys Val Thr Val Val Glu
        115                 120                 125
Pro Gly Lys Ile Asp Leu Gln Trp Trp Glu Gly Pro Pro Asp Ser Ser
    130                 135                 140
Pro His Gly Trp Gln Pro Gln
145                 150
```

<210> 23298
<211> 196
<212> PRT
<213> A.fumigatus

<400> 23298

```
Tyr Trp Tyr Ala Thr Thr Val Trp Asn Cys His Ser Leu Thr Asn Phe
1               5                   10                  15
Leu Val Thr Phe Ser Tyr Thr Thr Ala Phe Trp Ser Trp Glu Asp Trp
            20                  25                  30
Glu Leu Gln Leu Asp Trp Met Ala Leu Arg Gly Ile Asn Leu Pro Leu
        35                  40                  45
Ala Trp Val Gly Gln Glu Lys Ile Leu Val Glu Val Phe Arg Glu Ile
    50                  55                  60
Gly Leu Thr Asp Ala Glu Ile Ser Ser Phe Leu Ser Gly Pro Ala Phe
65                  70                  75                  80
Gln Ala Trp Asn Arg Phe Gly Asn Ile Gln Gly Ser Trp Gly Gly Glu
                85                  90                  95
Leu Pro Tyr Ser Trp Ile Asp Ser Gln Phe Glu Leu Gln Lys Lys Ile
            100                 105                 110
Val Arg Arg Met Val Glu Leu Gly Met Thr Pro Val Leu Pro Ala Phe
        115                 120                 125
Thr Gly Phe Val Pro Arg Ala Val Ser Arg Val Leu Pro Asn Ala Thr
    130                 135                 140
Val Val Asn Gly Ser Arg Trp Glu Glu Phe Asp Glu Arg Tyr Thr Ser
145                 150                 155                 160
Asp Thr Phe Leu Glu Pro Phe Asp Pro Ser Phe Met Arg Leu Gln Arg
                165                 170                 175
Ser Phe Ile Lys Lys Gln Gln Gln Ala Phe Phe Thr Thr Arg Leu Glu
            180                 185                 190
Gly Thr Asp Thr
        195
```

<210> 23299
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23299

```
Gln Pro Leu Ala Asp Pro Ser Ser Pro Val Val Lys Thr Ile Tyr Lys
1               5                  10                  15
Thr Asp Ile Phe Phe Ser Thr Ala Val Tyr Lys Ala Thr Pro Trp Ile
            20                  25                  30
Ile Gln Glu Thr Gly Val Cys Pro Pro Lys Ser Ala Pro Ala Ala Trp
        35                  40                  45
Ile Leu Gly Gly Ile Ala Tyr Ser Gly Val Ser Pro Lys Ser Gly Leu
    50                  55                  60
Ser Ser Glu
65
```

<210> 23300
<211> 195
<212> PRT
<213> A.fumigatus

<400> 23300

```
Arg Ala Cys Gly Val Ala Ser Ser Thr Thr Glu Thr Pro Leu Phe Gln
1               5                  10                  15
Val Cys Phe Asn Tyr Arg Met Gly Ala Gly Arg Thr Ala Ala Leu Gln
            20                  25                  30
Gly Val Glu Met Lys Phe Leu Asp Tyr Val Asp Ala Gln Asn Pro Phe
        35                  40                  45
Asp Leu Val Ala Thr Val Asp Asp Leu Asp Asp Gly Thr Ala Met Ile
    50                  55                  60
Thr Leu Tyr Leu Gln Asp Tyr Leu Tyr Asp Gln Glu Gly Ala Gln Leu
65                  70                  75                  80
Leu Ala Thr Met Tyr Ala Asn Val Leu Gln Val Leu Ala Glu Asn Pro
                85                  90                  95
Glu Arg Leu Val Gly Ser Val Ser Ile Ser Asn Ala Thr Leu Glu Asp
            100                 105                 110
Glu Gly Val Lys Leu Gly Thr Gly Pro Ile Leu Asp Leu Val Ala Pro
        115                 120                 125
Ser Thr Pro Thr Leu Ser Lys Ile Phe His Thr Trp Val Asp Lys Asp
    130                 135                 140
Pro His Ala Leu Ala Val Lys Asp Thr Thr Gly Lys Ser Lys Thr Tyr
145                 150                 155                 160
Val Gln Leu Ala Glu Arg Ala Asn Ala Ile Ala Ala Ser Leu Leu Asn
                165                 170                 175
Ala Gly Ala Pro Pro Ser Val Phe Thr Lys Gly Ser Gly Ile Arg Val
            180                 185                 190
Ala Ile Ala
        195
```

<210> 23301
<211> 61
<212> PRT
<213> A.fumigatus

<400> 23301

```
Ser Asn Cys Leu Trp Asn Arg Val Pro Ala Glu Val Asp Gly Thr Pro
1               5                  10                  15
Gln Asn Pro His Arg Phe Asn Leu Leu His Pro Asp Phe Pro Thr Asp
            20                  25                  30
Met Gly Val His Leu Tyr Pro Leu Lys Thr Asn Gly Arg Asp Val Glu
        35                  40                  45
```

```
Leu Gln Ser Tyr Asp Arg Thr Lys Lys Ala Arg Ala Ser
    50                  55                  60

<210> 23302
<211> 136
<212> PRT
<213> A.fumigatus

<400> 23302
Ala Gly Thr Gln Glu Gly Pro Gln Thr Thr Asp Phe Gln Phe Gln Ile
1               5                   10                  15
Ser Ser Gly Gly Tyr Glu Pro Phe Arg Arg Cys Phe Pro Thr Gly Met
            20                  25                  30
Phe Arg Ser Pro Gln Asn Lys Asn Phe Asp Cys Gly Ala Arg Glu Arg
        35                  40                  45
Glu Lys Ser His Leu Ala His Pro Pro Arg Arg Lys Asn Leu Ala Gln
    50                  55                  60
Cys Ser Asn Ala Pro Val His Gly Ala Ile Met Val Gln Leu Pro Leu
65                  70                  75                  80
Thr Gln Thr Ser Ala Asp Ser Pro Ala Ala Cys Tyr Leu Leu Ala Pro
                85                  90                  95
Val Asn Ile Ala Leu Leu Ala Arg Val Pro Gly Thr Met Ala Val Arg
            100                 105                 110
Leu Phe Lys Arg Val Gly Tyr Ser Leu Lys Ile Leu Pro Tyr Asn Ser
        115                 120                 125
Met Gly Ser Thr Gly Pro Ala Leu
    130                 135

<210> 23303
<211> 79
<212> PRT
<213> A.fumigatus

<400> 23303
Asp Leu Val Thr Asp Pro Arg Ala Val Cys Asp Cys Thr Thr Gly Gly
1               5                   10                  15
Leu Thr Gly Ile Ser Tyr Arg Gly Ser Arg Ala Val Asp Leu Arg Ala
            20                  25                  30
Val Phe Trp Asn Tyr Glu Ser Asn Lys Phe Leu Ser Asp Lys Gly Thr
        35                  40                  45
Ile Leu Ser Asp His Asn Pro Ile Thr Thr Asn Phe Thr Trp Thr Leu
    50                  55                  60
Ser Asn Ala Phe Arg Gln Ser Asp Ile Phe Gly Gly Pro His Gly
65                  70                  75

<210> 23304
<211> 122
<212> PRT
<213> A.fumigatus

<400> 23304
Thr Arg Phe Leu Arg Ser Ala Arg Gly Arg Arg Val Phe Leu Ser Cys
1               5                   10                  15
Leu Arg Pro Phe Cys Ser Lys Ala Asp Leu His Arg Ser Lys Asp Asp
            20                  25                  30
Asp Val Lys Ala Arg Ser Ala Asn Leu Gln Gln Leu Ala Asp Tyr Ile
```

```
        35                  40                  45
Lys Val Asn Ser Ala Gly Asn Ala Val Leu Val Phe Gly Asp Thr Asn
    50                  55                  60
Ala Arg Tyr Thr Arg Thr Gly Asp Asn Ile Arg Val Phe Gln Thr Gln
65                  70                  75                  80
Asn Gly Met Val Asn Pro Trp Val Glu Leu Ile Leu Gln Gly Ala Ala
                85                  90                  95
Pro Ala Glu Gly Ser Asn Ala Leu Leu Cys Arg Asn Pro Ser Thr Thr
            100                 105                 110
Ser Asp Cys Glu Thr Val Asp Lys Ile Leu
        115                 120
```

<210> 23305
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23305

```
Pro Gly Cys Arg Gly Gln Gly Thr Asp Arg Pro Asp Thr Leu Ser Phe
1               5                   10                  15
Asp Asp Ser Asp Asn Ala Ser Thr Val Tyr Phe Thr Pro Arg Asn Arg
            20                  25                  30
Gly Thr Gly Ala Glu Pro Asn Ser Ser Tyr Ser Pro Arg Arg Ile Val
        35                  40                  45
Asp Gly Glu Thr Gly His Glu Pro Asn Gly Asp Thr Ile Ile Gly Ala
    50                  55                  60
Phe Gly Ile Asn Ile Val Leu Trp Gly Tyr Gly Arg Leu Arg Leu Gln
65                  70                  75                  80
Pro Ser
```

<210> 23306
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23306

```
Ser Arg Val Leu Thr Cys Ala Ala Cys Ser Ser Cys Pro Tyr Gln Arg
1               5                   10                  15
Ala Asp Ala Arg Ser Thr Phe Leu His Ala His Ile Thr Ala Ala Asp
            20                  25                  30
Asn Pro Ala Asn Thr Tyr Thr Gly Ala Ala Val Arg Asp Gln Arg Ile
        35                  40                  45
Lys Pro Tyr Ala Asp Asp Asp Ala Pro Gly Arg Leu
    50                  55                  60
```

<210> 23307
<211> 360
<212> PRT
<213> A.fumigatus

<400> 23307

```
Ser Pro Pro Leu Arg Arg Ala Glu Pro Phe Ser Pro Val Val Lys Arg
1               5                   10                  15
His Leu Asp Arg Ala Pro Thr Gln Pro His Leu Ala Leu Asp Arg Lys
            20                  25                  30
```

```
Pro Thr Leu Pro Met Val Ala Asp Leu Asp Ala Glu Asp Lys Ala Pro
        35                  40                  45
Thr Val Pro Thr Leu Ser Arg Ser Thr Thr Gln Thr Thr Leu Pro Pro
    50                  55                  60
Tyr Thr Ser Arg Pro Gly Thr Ala Ala Pro Glu Arg Asn Pro Thr Leu
65                  70                  75                  80
Pro Thr Leu Pro Asp Val Ser Trp Thr Glu Lys Pro Ala Met Ser Arg
                85                  90                  95
Thr Val Thr Gln Ser Ser Ala His Ser Glu Ser Thr Ser Tyr Ser Gly
            100                 105                 110
Ala Thr Ala Val Ser Gly Tyr Ser Pro Leu Asp Arg Gly Ser Leu Pro
        115                 120                 125
Ala Pro Pro Val Pro Pro Val Pro Thr Asn Val Pro Met Pro Gly Ala
    130                 135                 140
Arg Ser Tyr Thr Pro Ile Ser Arg Pro Pro Thr Thr Arg Pro Thr Arg
145                 150                 155                 160
Thr Pro Ala Pro Pro Ser Ala Thr Asn Ala Ser Ser Arg Met Pro Thr
                165                 170                 175
Thr Met His Gln Gly Asp Tyr Glu Glu Ala Pro Arg Arg Tyr Pro Asp
            180                 185                 190
Pro Tyr Ser Thr Asp Ala Pro Tyr Asp Glu Asn Tyr Gly Ala His Pro
        195                 200                 205
Ser Tyr Ser Ala Ala Pro Asp Pro Tyr Ser Arg Ser Val Thr Arg Gly
    210                 215                 220
Ile Ala Val Ser Pro Gly Glu Asp Tyr Pro Thr Arg Thr Leu Ser Pro
225                 230                 235                 240
Gln Ser His Arg Gly Thr Pro Gln Pro Ser Ser Ser Asp Pro Pro Thr
                245                 250                 255
Ser Tyr Pro Val Arg Ala Tyr Thr Pro Gly Asn Ala Gly Thr Ala Arg
            260                 265                 270
Pro Pro Leu Ala Val Asp Ala Ala Ala Ser Tyr Ala Glu Arg Thr Tyr
        275                 280                 285
Thr Pro Val Ser Gln Arg Ala Thr Pro Arg Pro Gln Gln Gln Ser Ser
    290                 295                 300
Gln Gln Gln Gly Gly Tyr Val Ala Phe Asp Pro Ser Ser Met Gly Pro
305                 310                 315                 320
Ser Gln Pro Ser Ala Gly Ile Arg Pro Thr His Ser Pro Val Tyr His
                325                 330                 335
Ala Tyr Ser Gly Pro Ser Ser Ala Thr Ser Pro Asn Gly Pro Ser Asn
            340                 345                 350
Arg Gly Pro Pro Val Arg Ala Tyr
        355                 360

<210> 23308
<211> 91
<212> PRT
<213> A.fumigatus

<400> 23308
Arg Val Ser Phe Gln Pro Arg Gly Glu Asp Ile Phe Ser Ala Leu Lys
1               5                   10                  15
Tyr Leu Val Leu Ile Glu Ser Ala Phe Thr Leu Asn Phe Ala Ala Cys
            20                  25                  30
Phe Ala Tyr Arg Gly Val Pro Ala Ile Leu Pro Ala Ile Leu Arg Gln
        35                  40                  45
Gly Thr Thr Val Val Gln Gln Leu Arg Pro Val Leu Tyr Pro Asn Ile
```

```
    50                  55                  60
Phe Ala Ile Leu Asp Ile Asp Cys Met Gly Thr Gly Ile Leu Asn Lys
65                  70                  75                  80
Val Gln Ala Leu Gly Leu Val Leu Gln Glu Thr
                85                  90
```

<210> 23309
<211> 74
<212> PRT
<213> A.fumigatus

<400> 23309
```
Asp Asn Gly Lys Leu Glu Tyr His Ile Pro Ala Gln Tyr Asp Thr Asp
1               5                   10                  15
Arg Pro Gly Phe Asn Tyr Thr Val Val Lys His Ser Met Gly Ile Asn
            20                  25                  30
Lys His Pro Leu Ala Ala Ser Phe Pro Gln Ala Thr Gly Gln Pro Ser
        35                  40                  45
Leu Leu Gly Asp Pro Ala Asp Leu Ala Ser Val Cys Leu Cys Leu Thr
    50                  55                  60
Pro Arg Gly Trp Lys Val Arg Ser Leu Arg
65                  70
```

<210> 23310
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23310
```
Phe Ser Asn Arg Ile Ser Gly Lys Met Thr Ala Ala Leu Thr Ile Tyr
1               5                   10                  15
Ser Ala Thr Phe Met Arg Tyr Ala Leu Ala Val Ser Pro Lys Asn Tyr
            20                  25                  30
Leu Leu Phe Ala Cys His Phe Ile Asn Cys Ser Ala Gln Met Thr Gln
        35                  40                  45
Gly Tyr Arg Tyr Leu Ser Tyr Trp Lys Tyr Val Leu Tyr Ser Pro Pro
    50                  55                  60
Pro His Cys Arg Pro Leu Cys Leu Leu Leu Leu Ser Thr Gln Leu Trp
65                  70                  75                  80
Asn Val
```

<210> 23311
<211> 113
<212> PRT
<213> A.fumigatus

<400> 23311
```
Ala Glu Ser Val Gly Ser Asn Leu Asp Thr Ser Ser Ser Ala Val Arg
1               5                   10                  15
Val Glu Lys Phe Gly Leu Arg Leu Asp Ile Asp Pro Glu Leu Leu Leu
            20                  25                  30
Phe Gly Pro Ser Phe Ile Asn Asp Thr Ile Ser Cys Thr Leu Ser Gln
        35                  40                  45
Trp Gly Pro His Pro Phe Tyr Asn Arg Leu Val Ala Ala Lys Ile Thr
    50                  55                  60
```

Thr Glu Arg Cys Phe Asn Asn Glu Ala Leu Thr Lys Asp Arg Met Ala
65 70 75 80
Thr Cys Tyr Tyr Tyr Lys Ala Leu Tyr Leu Ile Lys Ser Ile Ser Ala
85 90 95
Phe Lys Ile Gln Lys Thr Gly Gln Ile Glu Phe Gly Met Lys Gln Leu
100 105 110
Thr

<210> 23312
<211> 183
<212> PRT
<213> A.fumigatus

<400> 23312
His Ile Asp Phe Arg Arg Val Val Lys Thr Val Arg Gln Trp Arg His
1 5 10 15
Arg Ala Leu Gln Leu Leu Ser Ser Glu Pro Pro Glu Asn Leu Val Ser
20 25 30
Pro Pro Thr Leu Lys Ser Ala Ser Pro Leu Gln Ser Ile Lys Asp Leu
35 40 45
Leu Glu Pro Pro Gly Ser Gln Ala Glu Pro Ile Ser Ile Lys Val Asp
50 55 60
Val Thr Ser Pro Lys Glu Ser His Pro Pro Gly Ala Pro Asn Phe Thr
65 70 75 80
Ala Glu Arg Lys Ser Pro Val Leu Ser Pro Leu Lys Lys Phe Ala Ile
85 90 95
Ser Pro Ser Asp Gly Pro Val Gln Ala Leu Leu Pro Ala Leu Gln Thr
100 105 110
Ser Pro Pro Leu Ala Thr Ala Lys Ser Pro Glu Asn His Gln Gln His
115 120 125
Ser Leu Pro Ser Ile Gln Thr Ala Leu Ala Glu Ile Ser Gly Pro Tyr
130 135 140
Ser Leu Pro Pro Val Ser Thr Ser Pro Pro Ser Ile Pro Arg Asn Glu
145 150 155 160
Ser Ala Trp Asp His Gln Arg Pro Gly Gln Phe Ala Pro Pro Gln Val
165 170 175
Pro Pro Ser Pro Tyr Ser His
180

<210> 23313
<211> 162
<212> PRT
<213> A.fumigatus

<400> 23313
Tyr Gln Lys Ile Arg Gln Ser Trp Ser Lys Tyr Asn Leu Phe Asn Leu
1 5 10 15
Ser Arg Phe Arg Ala Pro Pro Thr Ala Asn Arg Thr Phe Phe Gln Gln
20 25 30
Lys Trp Thr Ala Lys Ser Val Ala Arg Ala Tyr His Gly Glu Gln Val
35 40 45
Arg Glu Ser Gln Trp Ser Arg Met Phe Thr Arg Arg Ile Arg Ser Val
50 55 60
Val Pro Met Ser Pro Glu Lys Leu Ala Ser Asp Asp Gly Ser Ala Met
65 70 75 80

Ser Ala Gly Arg Gly Ala Gly Leu Glu Ser Glu Ala Ser Gly Asp Gly
85 90 95
Thr Ala Gly Ala Gln Asp Gln Thr Ser Leu Thr Pro Tyr Thr Gln Met
100 105 110
Thr Phe Ala Pro Leu Glu Arg Arg Leu Asp Val Ala Ile Phe Arg Ala
115 120 125
Met Phe Ala Ser Ser Thr Arg Gln Ala Arg Gln Phe Val Val His Gly
130 135 140
Ala Val Thr Val Asn Gly Lys Lys Leu Cys Phe Phe Gly Leu Val Val
145 150 155 160
Arg Arg

<210> 23314
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23314
Met Ala Cys Ser Gln Pro His Ile Glu Val Gly Ala Ser Gly Phe Arg
1 5 10 15
Thr Ser Ser Lys Val Gln Asn Phe Asp Val Gln Gly Phe Leu Asn Phe
20 25 30
Phe Val Pro Thr Gly Gly Ala Arg Gly Asn Ile Leu Phe Lys Leu Leu
35 40 45
Val Gln Ser Pro Arg Leu Trp Leu Phe Asp Tyr Arg Gly Leu Lys Ile
50 55 60
Trp Arg Arg
65

<210> 23315
<211> 84
<212> PRT
<213> A.fumigatus

<400> 23315
Tyr Thr Arg Arg Trp Ile Lys Thr Ser Asn Ser Ile Phe Asp Phe Val
1 5 10 15
Ile Cys Ala Ala Ser Ile Ile Ile Glu Ala Ser Thr Tyr Arg Ala Asp
20 25 30
Phe Arg Val Ser Glu Ala Tyr His Gly Asn Asn Ile Lys Ile Thr Ile
35 40 45
Met Gln Leu Pro Leu Val Gly Asp Asn Trp Asn Gly Ser Trp Leu Asp
50 55 60
Cys Cys Leu Ser Val Leu Gly Thr Cys Gln Cys Leu Asp Glu Ile Cys
65 70 75 80
Pro Phe Ala Ser

<210> 23316
<211> 400
<212> PRT
<213> A.fumigatus

<400> 23316
Leu Gly Gln Ala Val Pro Pro Leu Pro Arg Arg Gln Arg Arg Arg Val

```
1               5                   10                  15
Ile Ser Asn Lys Ser Pro Ala Gly Ala Val Leu Pro Met Gly Pro Arg
            20                  25                  30
Ala Lys Arg Ala Arg Ala Met Leu Thr Phe Thr Asn Pro Arg Gly Phe
        35                  40                  45
Gly Leu Gly Ser Ser Phe Thr Leu Thr Ala Gln Trp Thr Ser Gly Val
    50                  55                  60
Asp Ser Phe Lys Ser Asp Leu Cys Glu Arg Ile Pro Tyr Lys Asn Ile
65                  70                  75                  80
Gln Tyr His Asp Gly Ser Asp Pro Ile Arg Met His Asn Tyr Tyr Thr
                85                  90                  95
Leu Leu Phe Ser Lys Leu Val Tyr Glu Pro Met Thr Gly Arg Tyr Gly
            100                 105                 110
Pro Ser Asn Ser Leu Leu Phe Ala Arg Ser Ser Ala Pro Gly Gly Gln
        115                 120                 125
Ala Tyr Ser Val His Trp Asp Gly Asp Cys Glu Ser Thr Tyr Glu Ala
    130                 135                 140
Met Ala Glu Ser Leu Arg Gly Gly Leu Ser Leu Met Leu Ser Gly Tyr
145                 150                 155                 160
Ile Phe Trp Ala Ser Asp Ile Gly Gly Phe Glu Gly Thr Pro Pro Pro
                165                 170                 175
Ala Leu Tyr Lys Arg Trp Val Gln Phe Gly Leu Leu Ser Ser His Ser
            180                 185                 190
Arg Leu His Gly Ser Ser Ser Phe Arg Ile Pro Trp Ile Tyr Gly Glu
        195                 200                 205
Asp Ala Cys Thr Val Leu Arg Asp Cys Val Lys Arg Lys Ile Leu Leu
    210                 215                 220
Thr Pro Tyr Leu Leu Leu Glu Ala Leu Arg Gly His Arg Gln Gly Val
225                 230                 235                 240
Pro Leu Met Arg Pro Met Phe Leu Glu Phe Pro Asp Asp Leu Asn Thr
                245                 250                 255
Tyr Pro Leu Asp Thr Gln Tyr Met Phe Gly Ala Asn Leu Leu Val Ala
            260                 265                 270
Pro Val Phe Ser Glu Asp Gly Ser Val Thr Phe Tyr Val Pro Arg Thr
        275                 280                 285
Pro Glu Asp Ala Cys Gly Lys Trp Arg Ser Trp Phe Asp His Ala Lys
    290                 295                 300
Thr Tyr Glu Ser Gly Gln Trp Tyr Thr Glu Thr His Gly Phe Asp Thr
305                 310                 315                 320
Leu Pro Ile Leu Val Arg Pro Gly Ser Val Thr Pro Val Asn Pro Lys
                325                 330                 335
Phe Asn Val Pro Glu Gly Asp Ala Leu Asp Gly Leu Glu Leu Leu Val
            340                 345                 350
Asn Gly Thr Leu Ala Ala Asp Val Asp Val Glu Val Val Tyr Pro Ile
        355                 360                 365
Lys Thr Tyr Ala Thr Leu Arg Thr Val Arg Val Ser Pro Ser Gly Asp
    370                 375                 380
Thr Val Thr Val Ala Asp Ala Asn Ile Lys Val Val Cys Ile His Gln
385                 390                 395                 400
```

<210> 23317
<211> 135
<212> PRT
<213> A.fumigatus

<400> 23317

```
Pro Ala Asp Thr Ala Leu Pro Thr Leu Ser Ser Ser Pro Ala His Pro
1               5                  10                  15
Pro Gln Ala Ala Lys Leu Thr Pro Ser Thr Gly Thr Ala Thr Ala Asn
            20                  25                  30
Pro Pro Met Lys Pro Trp Pro Ser Pro Ser Ala Ala Ala Ser Pro Ser
        35                  40                  45
Cys Ser Arg Gly Ile Ser Ser Gly Pro Arg Thr Ser Ala Val Ser Arg
    50                  55                  60
Glu Pro His Pro Gln Leu Ser Thr Ser Ala Gly Ser Ser Ser Gly Phe
65                  70                  75                  80
Tyr Pro Arg Thr Pro Ala Ser Thr Gly Pro Pro Pro Ser Ala Ser Pro
                85                  90                  95
Gly Ser Thr Ala Lys Thr Pro Ala Pro Ser Ser Ala Thr Ala Ser Asn
            100                 105                 110
Ala Arg Ser Ser Ser Pro Pro Thr Ser Ser Ser Arg Arg Cys Ala Ala
        115                 120                 125
Thr Ala Lys Ala Phe Arg Ser
    130                 135
```

<210> 23318
<211> 65
<212> PRT
<213> A.fumigatus

<400> 23318

```
Lys Pro Glu Leu Asp Pro Ala Leu Val Glu Ser Trp Gly Trp Gly Ser
1               5                  10                  15
Leu Glu Thr Ala Asp Val Arg Gly Pro Glu Asp Ile Pro Arg Glu His
            20                  25                  30
Glu Gly Glu Ala Ala Ala Glu Gly Leu Gly His Gly Phe Ile Gly Gly
        35                  40                  45
Phe Ala Val Ala Val Pro Val Asp Gly Val Ser Leu Ala Ala Trp Gly
    50                  55                  60
Gly
65
```

<210> 23319
<211> 181
<212> PRT
<213> A.fumigatus

<400> 23319

```
Leu Phe Phe Ser Leu Tyr Ile Gln Leu Thr Leu Ala Gly Ser Pro Leu
1               5                  10                  15
Asn Arg Leu Ser Phe Leu Arg Ser Glu His Pro Phe Leu Ser Ala Ala
            20                  25                  30
Leu Lys His Pro Ser Thr Arg Phe Val Leu Leu Lys Asp Leu Ala Pro
        35                  40                  45
Leu Thr Lys Ser Pro Ser Glu Leu Tyr Tyr Ala Lys Tyr Asp Glu Val
    50                  55                  60
Arg Lys Leu Val Pro Glu Asn Phe Phe Asp Lys Ser Glu Glu Glu Met
65                  70                  75                  80
Ile Lys Gln Phe Asp Ser Arg Lys Thr Ser Ala Gln Leu Ile Phe Leu
                85                  90                  95
Gly Leu Asp Glu Thr Arg Lys Gln Asp Gly Leu Ala Trp Lys Ile Tyr
            100                 105                 110
```

```
Thr Gly Ala Pro Tyr Phe Ala Leu Asp Val Thr Pro Lys Gly Ser Glu
        115                 120                 125
Glu Gln Gln Ala Asn Ala Lys Asp Ile Ile Ser Thr Val Val Ala Lys
    130                 135                 140
Gly Leu Ser Leu Tyr Gln Ser Arg Val Val Met Thr Phe Ile Gly Gly
145                 150                 155                 160
Arg Gly Tyr Val Asn Cys Arg Gln Arg Gln Gln Val Phe Thr Arg Arg
                165                 170                 175
Pro Gly Pro Ser Arg
            180
```

<210> 23320
<211> 116
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (52),(89),(92),(95),(96)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23320
Leu Met Ser Arg Leu Ser Arg Leu Phe Asp Lys Ser Lys Gln Thr Leu
1               5                   10                  15
Pro Val Thr Ser Ala Ser Pro Asp Gly Pro Ala Trp Thr Glu Val Gly
            20                  25                  30
Asn Ala Ala Asp His Leu Pro Ala Glu Leu Glu Ser Leu Tyr Trp Thr
        35                  40                  45
Gly Val Asn Xaa Glu Leu Asp Cys Ile Val Ser Thr Leu Arg Arg Trp
    50                  55                  60
Gln Ala Pro His Phe Gln His Ile Gln Pro Asp Ala Asp Asn Thr Leu
65                  70                  75                  80
Val Asn Gly Phe Asp Thr Phe Val Xaa Asp Val Xaa Pro Gln Xaa Xaa
                85                  90                  95
Gln Thr Pro Ser Gln Leu Pro Phe Gln Val Phe Thr Glu Leu Thr Val
            100                 105                 110
Lys Gly Val Trp
        115
```

<210> 23321
<211> 191
<212> PRT
<213> A.fumigatus

```
<400> 23321
Leu Ser Leu Thr Thr His Leu Ala Leu Leu Ser Thr Arg Leu Pro Lys
1               5                   10                  15
Leu Lys Ser Lys Gly Glu Glu Asp Pro Phe Phe Asp Asp Asp Trp Asn
            20                  25                  30
Val Ala Glu Tyr Leu Tyr Pro Arg Gln Ser Ser Gly Asn Ala Thr Thr
        35                  40                  45
Pro Ser Pro Ser Gln Phe Val Arg Pro Pro Val Thr Leu Leu Val Ile
    50                  55                  60
Ser Val Ala Asp Asn Ile Ile Phe Asp Pro Ser Arg Glu Glu Ile Ala
65                  70                  75                  80
Val Ala Asp Thr Val Leu Ala Leu Ser Val Ser Arg Asp Gly Glu Thr
```

```
                85                  90                  95
Gly Ser Leu Lys Leu Ile Ser Met Arg Thr Ile Asp Pro Pro Ser Arg
            100                 105                 110
Leu Thr Gln Pro Gly Val Pro Asn Ser Glu Asn Val Thr Thr Ile Gly
        115                 120                 125
Ser Ser Ala Ala Ala Glu Asp Ala Ala Ile Leu Ser Pro Ser Thr Gly
    130                 135                 140
Glu Glu Glu Val Pro Gly Val Trp Lys Pro Arg Arg Gly Gly Val Lys
145                 150                 155                 160
Arg Ser Thr Ile Ala Arg Met Val Lys Ala Val Leu Glu Lys Gly Gly
                165                 170                 175
Val Gly Glu Asp Val Leu Glu Gly Leu Glu Gly Val Ser Val Gly
            180                 185                 190
```

<210> 23322
<211> 261
<212> PRT
<213> A.fumigatus

<400> 23322

```
Gly Leu Asp Thr Ser Ser Ala Ala Cys Lys Ile Asp Ser Ser Ala Arg
1               5                   10                  15
Leu Pro Pro Gly Asn Arg Ser Arg Pro Thr Pro Pro Pro Ala Gln Ser
            20                  25                  30
Ser Lys Pro Pro Ala Pro Ser Thr Ser Leu Pro Val Arg Pro Lys Ala
        35                  40                  45
Pro Ala Arg Ile Val Pro Gln Leu Ser Gln Glu Ser Leu Ile Ser Thr
    50                  55                  60
His Arg His Arg Glu Lys Gly Thr Glu Ala Tyr Lys Arg Gly Asp Tyr
65                  70                  75                  80
Ala Ala Ala His Asp Ala Phe Thr Ser Ala Leu Thr Met Leu Pro Asp
                85                  90                  95
Lys His Pro Ile Ser Ile Val Ile Arg Ser Asn Arg Ala Met Thr Ala
            100                 105                 110
Leu Lys Val Gly Glu Pro Lys Val Ala Ile Ser Asp Ala Asp Ala Ile
        115                 120                 125
Leu Glu Leu Ile Gly Pro Ser Lys Gly Glu Ala Glu Thr Ile Asp Leu
    130                 135                 140
Ala Asn Gly Glu Ala Ala Lys Ser Met Lys Asp Phe Tyr Gly Lys Ala
145                 150                 155                 160
Leu Met Arg Lys Ala Glu Ala Leu Glu Gln Leu Glu Arg Trp Ala Asp
                165                 170                 175
Ala Ala Gln Val Trp Arg Gln Ala Val Glu Asn Gly His Gly Gly Ser
            180                 185                 190
Thr Ser Ile Gln Gly Arg Asn Arg Cys Glu Lys Ala Ala Gly Ile Ser
        195                 200                 205
Lys Pro Ala Gln Lys Pro Pro Ala Pro Ala Lys Arg Pro Pro Ala Pro
    210                 215                 220
Ala Pro Lys Lys Pro Ser Ala Leu Asp Asp Leu Gln Gly Gly Ser Leu
225                 230                 235                 240
Ser Thr Gly Gly Ser Ser Glu Ala Val Ser Arg Leu Arg Ala Ala Asn
                245                 250                 255
Gln Ala Ala Glu Arg
            260
```

<210> 23323

<211> 158
<212> PRT
<213> A.fumigatus

<400> 23323
Leu Thr Arg Leu Ser Arg Thr Ser Ser Gln Ile Trp Lys Arg Asn Leu
1 5 10 15
Ala Tyr Thr Lys Leu His Gln Ala Val Leu Asn Glu Gln Val Asp Glu
20 25 30
Val Lys Ala Leu Leu Ser Arg Gly Ala Pro Ile Asp Val Pro Asp Arg
35 40 45
Lys Gly Asn Leu Pro Val His Tyr Thr Ala Gly His Gln Asp Glu Lys
50 55 60
Ile Ala Lys Phe Leu Leu Gly Tyr Arg Val Gly Lys Ile Glu Pro Leu
65 70 75 80
Val Lys Gln Asp Leu Ala Arg Leu Thr Leu Asp His Arg Asn Thr Asp
85 90 95
Gly Asn Thr Pro Met His Leu Ala Ile Ser Ala Arg Ser Leu Asn Tyr
100 105 110
Asp His Gln Lys Ser Ile Val Thr His Leu Leu Gly Ala Gly Gly Asn
115 120 125
Pro Tyr Ile Pro Asn Asn Leu Gly Val Thr Pro Ile Gln Lys Ala Val
130 135 140
Glu Leu Val Phe Pro Asn Asn Glu Leu Gly Leu Trp Thr Ser
145 150 155

<210> 23324
<211> 260
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (237)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23324
Ser Gln Arg Thr Ser Ser Asn Ala Ser Thr Leu Thr Thr Ser Phe Gly
1 5 10 15
Met Asp Gly Ala Ala Val Thr Ser Leu Val Leu Gly Asp Glu Asp Met
20 25 30
Pro Thr Glu Gln Ala Gln Val Pro His Asp Phe Ser Glu Asn Lys Gly
35 40 45
His Ala Ala Asn Thr Ile Gly Glu Asp Glu Arg Leu Glu Glu Pro Pro
50 55 60
Arg Glu Leu Pro Thr Ala Gln Ala Thr Gln Gln Ser Asn Leu Val Gly
65 70 75 80
Leu Ala Arg Thr Ser Ser Pro Leu Lys Arg Val His Asp Asp Asn Gln
85 90 95
Ser Arg Ile Ser Ala Trp Asn Asn Phe His Ala Val Ala Ala Arg Asp
100 105 110
Glu Ala Ala Glu Asn Ala Arg Arg Leu Glu Glu Ser Gln Asp Asn Ser
115 120 125
Ala Ser Gln Leu Pro His Ser Leu Thr Trp Arg Lys Ile Ser Val Asp
130 135 140
Glu Asp Asp Pro Val Arg Lys Val Thr Thr Val Glu Lys Pro Ala Asp

```
145                 150                 155                 160
Glu Asn Glu Ser Glu Thr Lys Lys Gln Lys Thr Gly His Ala Val Ser
                165                 170                 175
Ala Thr Lys Asn Ser Asp Glu Ile Pro Leu Asp Leu Asp Ser Asp Ser
            180                 185                 190
Asp Gln Gly Ile Ser Thr Thr Ala Glu Thr Gln Gly Ala Thr Gln Lys
        195                 200                 205
Gln Asn Ala Val Val Thr Gln Pro Ala Ala Pro Asp Val Thr Gly Glu
    210                 215                 220
Ser Lys Leu Ser Gly Thr Thr Gln Gln Asp Lys Pro Xaa Val Arg Ser
225                 230                 235                 240
Leu Asp Ser Gln Asp Val Arg Asn Leu Leu Pro Thr Ser Phe Ser Gln
                245                 250                 255
Pro Glu Ser Phe
            260
```

<210> 23325
<211> 286
<212> PRT
<213> A.fumigatus

```
<400> 23325
Phe His Ser Ser Arg Leu Leu Leu Glu Ser Ala Ile Ser Thr Ala Met
1               5                   10                  15
Ile Tyr Ser Leu Arg Ile Leu Gln Trp Leu Cys Ile Thr Ala Gly Leu
            20                  25                  30
Asp Leu Leu Val Pro Ser Leu Ala Ala Asp Thr Ser Ala Trp Lys Ser
        35                  40                  45
Arg Ser Ile Tyr Gln Thr Met Thr Asp Arg Phe Ala Arg Thr Asp Gly
    50                  55                  60
Ser Thr Thr His Pro Cys Asn Thr Thr Glu Gly Leu Arg Cys Gly Gly
65                  70                  75                  80
Ser Trp Arg Gly Thr Ile Gln His Leu Asp Tyr Ile Gln Gly Met Gly
                85                  90                  95
Phe Asp Ala Ile Met Ile Ser Pro Ile Val Gln Asn Val Glu Gly Arg
            100                 105                 110
Val Gln Tyr Gly Glu Ala Tyr His Gly Tyr Trp Val Gln Asp Met Tyr
        115                 120                 125
Ala Leu Asn Pro His Phe Gly Thr His Gln Asp Leu Leu Asp Leu Ser
    130                 135                 140
Lys Ala Val His Asp Arg Gly Met Tyr Leu Met Val Asp Thr Val Ile
145                 150                 155                 160
Asn Asn Leu Ala Tyr Ile Thr Asp Gly Arg Asn Pro Ala Thr Ser Ile
                165                 170                 175
Asp Tyr Ser Ala Leu Arg Pro Phe Asn Asp Ser Met Phe Phe His Pro
            180                 185                 190
Tyr Cys Lys Ile Thr Asp Tyr Asp Asn Tyr Pro Leu Ala Gln Thr Cys
        195                 200                 205
Trp Thr Gly Asp Asp Val Val Pro Leu Pro Asp Leu Lys Thr Glu Asp
    210                 215                 220
Ser Gln Val Gln Ser Met Leu Met Asp Trp Ile Arg Lys Met Met Ala
225                 230                 235                 240
Thr Tyr Ser Ile Asp Gly Leu Arg Leu Asp Ala Ala Lys His Ile Thr
                245                 250                 255
Pro Ile Ser Cys Leu Cys Ser Lys Thr Leu Leu Ala Leu Leu Leu Leu
            260                 265                 270
```

Glu Lys Ser Ser Arg Arg Gly Trp Lys Glu Pro Arg Cys Gly
275 280 285

<210> 23326
<211> 132
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (127)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23326
Asp Ser Ser Ser Arg Phe Arg Phe Leu Pro Ala Ala Arg Ser Asp Ile
1 5 10 15
Ser Leu Ser Leu Ser Leu Ser Ser Ser Leu Pro Arg Asn Ser Phe Ser
20 25 30
Ser Ser Cys Thr Ala Ala Cys Ser Ser Ala Ser Tyr Pro Met Gly Asp
35 40 45
Ile Ser Leu Ser Pro Glu Asn Phe Arg Ile Ser Ser Leu Asn Cys Asp
50 55 60
Pro Ser Ser Ser Ser Val Gln Asn Pro Pro Val Ser Ser Ser Asp Asp
65 70 75 80
Asp Ser Gln Pro Leu Ser Ser Ser Phe Asp Pro Gly Glu Ile Gly Ser
85 90 95
Pro Arg Ser Ser Gly Cys Thr Gly Ser Arg Tyr Gly Ser Ser Ser Asn
100 105 110
Arg Phe Gln Ser Tyr Thr Ser Arg Asp Arg Ser Thr Ser Val Xaa Gln
115 120 125
Ser Arg Ala Pro
130

<210> 23327
<211> 209
<212> PRT
<213> A.fumigatus

<400> 23327
Asp Trp Lys Arg Leu Glu Glu Glu Pro Tyr Leu Leu Pro Val His Pro
1 5 10 15
Asp Asp Arg Gly Glu Pro Ile Ser Pro Gly Ser Lys Glu Leu Glu Ser
20 25 30
Gly Trp Leu Ser Ser Ser Asp Asp Glu Thr Gly Gly Phe Trp Thr Asp
35 40 45
Asp Asp Glu Gly Ser Gln Phe Asn Glu Glu Ile Leu Lys Phe Ser Gly
50 55 60
Leu Asn Glu Met Ser Pro Ile Gly Tyr Asp Ala Glu Glu Gln Ala Ala
65 70 75 80
Val His Asp Glu Leu Lys Glu Phe Leu Gly Ser Asp Asp Glu Ser Glu
85 90 95
Ser Asp Ser Glu Ile Ser Leu Leu Ala Ala Gly Lys Lys Arg Lys Arg
100 105 110
Asp Asp Glu Ser Gln Gly Thr Asp Glu Asp Glu Ser Asp Gly Gly Gln
115 120 125
Gly Glu Glu Gly Glu Met Glu Gly Ser Arg Leu Ser Gln Arg Ile Lys

```
    130                 135                 140
Arg Ser Tyr Glu Arg Thr Thr Gly Leu Lys Glu Val Ala Thr Ala Asp
145                 150                 155                 160
Thr Thr Ser Thr Ala Glu Leu Thr His Thr Ser Leu Pro Lys Glu Arg
                165                 170                 175
Ser Gly Gly Glu Thr Asp Asp Ala Leu Asn Asp Leu Asn Glu Ser Glu
            180                 185                 190
Glu Pro Ala Val Leu His Leu Gly Val His Val Pro Asp Ile Phe Lys
        195                 200                 205
Gly
```

<210> 23328
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23328

```
Leu Val Ala Lys Leu Asp Lys Gly Asn Ile Ala Ala His Ser Arg Leu
1               5                   10                  15
Asn Pro Glu Arg Arg Asp His Asn Gly Ala Tyr Trp Ile Gly Ser Ser
            20                  25                  30
Ser Leu Ser Leu Val Leu Val Ser Ala Ala Ile Cys Leu Ala Ser Ser
        35                  40                  45
Leu Thr Pro Thr Met Ser Ile Ile Val Met Phe Gln Trp Tyr Phe Leu
    50                  55                  60
Leu Ile Thr Asn Leu Arg Thr Tyr Val Leu Asp Gly Ala Ala Thr Leu
65                  70                  75                  80
Asp Cys
```

<210> 23329
<211> 115
<212> PRT
<213> A.fumigatus

<400> 23329

```
Ser Arg Thr Cys Ala His Ser Tyr Arg Pro Ser Arg Tyr Ile Gly Glu
1               5                   10                  15
Pro Ala Asp Gln Thr Leu Arg Thr Pro Asp Phe Ile His His Thr Asp
            20                  25                  30
Gly Tyr Pro Cys Tyr Asp Asp Ala Ala Pro Lys Ile Lys Gln Tyr Cys
        35                  40                  45
Pro Arg Phe Glu Ala Asp Phe Asn His Ile Pro Ile Ser Glu Ser Ser
    50                  55                  60
Leu Ile Ile Arg Gly Ile Gln Ala Leu Val Ala Met Ala Thr Gln Glu
65                  70                  75                  80
His Lys Lys Thr Leu Gly His Ala Val Lys Leu His Ser Ile Val Ala
                85                  90                  95
Asp Ile His Val Asp Ile Met Thr Met Ile Val Val Leu Ile Gly Arg
            100                 105                 110
Arg His His
        115
```

<210> 23330
<211> 161

<212> PRT
<213> A.fumigatus

<400> 23330
Ala Pro Glu Glu Pro Lys Lys Pro Ala Leu Pro Glu Ile Val Lys Lys
1 5 10 15
Phe Ser Arg Arg Thr Val Arg Val Thr Arg Glu His Asn Ala Glu Cys
20 25 30
Lys Lys Leu Leu Lys Leu Met Gly Ile Pro Tyr Ile Asp Ala Pro Thr
35 40 45
Glu Ala Glu Ala Gln Cys Ala Val Leu Ala Arg Ala Gly Lys Val Tyr
50 55 60
Ala Ala Ala Ser Glu Asp Met Asp Thr Leu Cys Phe Glu Ala Pro Ile
65 70 75 80
Leu Leu Arg His Leu Thr Phe Ser Glu Gln Arg Lys Glu Pro Ile Gln
85 90 95
Glu Ile His Leu Asn Arg Ala Leu Glu Gly Leu Gly Met Asp Arg Lys
100 105 110
Gln Val Gly Asp Trp Leu Leu Pro Arg Ile Pro Ser Trp Ile Arg Ser
115 120 125
Ser His Ala Tyr Thr Arg Leu His Ser Leu Leu Ile Tyr Ala Phe Phe
130 135 140
Ser Ala Val Thr Ile Trp Asn Leu Ser Gln Arg Ser Gly Gln Thr Pro
145 150 155 160
Leu

<210> 23331
<211> 230
<212> PRT
<213> A.fumigatus

<400> 23331
Gly Arg Gly Pro Val Cys Cys Ala Cys Ala Gly Arg Glu Gly Leu Cys
1 5 10 15
Arg Cys Phe Arg Gly Tyr Gly His Val Met Phe Arg Ser Ala Asn Ser
20 25 30
Ser Gln Ala Ser Tyr Val Gln Arg Ala Glu Lys Gly Thr His Ser Arg
35 40 45
Asp Pro Ser Glu Ser Cys Ser Arg Gly Thr Arg His Gly Ser Gln Ala
50 55 60
Gly Arg Arg Leu Ala Ser Pro Gln Asn Pro Phe Met Asp Thr Ile Phe
65 70 75 80
Ser Cys Leu His Pro Ala Ala Gln Phe Ile Asp Leu Cys Ile Leu Leu
85 90 95
Gly Cys Asp Tyr Leu Glu Pro Ile Pro Lys Val Gly Pro Asn Thr Ala
100 105 110
Leu Lys Leu Ile Arg Glu His Gly Ser Leu Glu Lys Val Val Glu Ala
115 120 125
Ile Glu Asn Asp Pro Lys Lys Lys Tyr Val Ile Pro Glu Tyr Trp Pro
130 135 140
Tyr Gln Asp Ala Arg Glu Leu Phe Leu His Pro Asp Val Arg Glu Ala
145 150 155 160
Asp His Pro Glu Cys Asp Phe Lys Trp Glu Ala Pro Asp Val Glu Ala
165 170 175
Leu Val Glu Phe Leu Val Lys Asp Lys Gly Phe Asn Glu Asp Arg Val

```
            180                 185                 190
Arg Asn Gly Ala Ala Arg Leu Gln Lys Asn Leu Lys Thr Ala Gln Gln
        195                 200                 205
Ser Arg Leu Glu Gly Phe Phe Lys Pro Val Ala Ser Ser Pro Arg Gly
    210                 215                 220
Trp Lys Glu Pro Leu His
225                 230
```

<210> 23332
<211> 162
<212> PRT
<213> A.fumigatus

<400> 23332

```
Ile Arg Met Pro Arg Lys Ala Ile Asp Ser Arg Ile Pro Ala Leu Ile
1               5                   10                  15
Arg Asn Asn Val Gln Glu Lys Lys Arg Ser Phe Phe Val Val Val Gly
            20                  25                  30
Asp Arg Ala Lys Asp Val Ile Val Asn Leu His Tyr Ile Met Ser Ser
        35                  40                  45
Val Asp Val Lys Gln Asn Lys Ser Val Leu Trp Ala Tyr Lys Lys Asp
    50                  55                  60
Leu Leu Gly Phe Thr Ser His Arg Lys Lys Arg Glu Ala Lys Ile Lys
65                  70                  75                  80
Lys Glu Ile Lys Arg Gly Ile Arg Glu Pro Asn Gln Glu Asp Pro Phe
                85                  90                  95
Glu Leu Phe Ile Thr Leu Asn Gln Ile Arg Tyr Val Tyr Tyr Lys Glu
            100                 105                 110
Thr Glu Lys Ile Leu Gly Asn Thr Tyr Gly Met Cys Ile Leu Gln Asp
        115                 120                 125
Phe Glu Ala Ile Thr Pro Asn Leu Leu Ala Arg Thr Ile Glu Thr Val
    130                 135                 140
Glu Arg Gly Gly Ile Val Leu Leu Leu Leu Lys Gly Met Lys Ser Leu
145                 150                 155                 160
Lys Gln
```

<210> 23333
<211> 77
<212> PRT
<213> A.fumigatus

<400> 23333

```
Lys Thr Asn Gly Phe Ser Leu Asn Pro Val Val Leu Ser Pro Lys Ala
1               5                   10                  15
Thr Val Gly Glu Ala Lys Ala Leu Lys Ala Lys Trp Gly Phe Gly Gly
            20                  25                  30
Phe Pro Val Thr Gly Lys His Thr Ile Leu Leu Ser Leu Ser Cys His
        35                  40                  45
Pro Tyr Met Met Ile Leu Gln Pro Ile Ser Tyr Asn Phe Arg Ser Ser
    50                  55                  60
Gly Ala Thr Arg Val Ala Met Tyr Lys Asn Tyr Phe Ile
65                  70                  75
```

<210> 23334
<211> 232

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (114)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23334
Phe Thr Ser Val Thr Ile Thr Val Arg Lys Pro Leu Ser Asn Leu Cys
1 5 10 15
Phe Val Thr Glu Asn Gly Thr Leu Arg Ser Lys Leu Val Gly Met Val
20 25 30
Thr Ser Ile His Ile Gln Phe His Thr Asn Leu Asp Asp Pro Val Thr
35 40 45
Ala Ile Met Ser Thr Asp Leu Val Thr Ala Pro Ala Gly Thr Thr Leu
50 55 60
Ala Glu Ala Asn Asp Val Leu Arg Ser Ser Lys Ile Gly Lys Leu Pro
65 70 75 80
Ile Val Asp Ala Asp Gly Asn Leu Val Ser Leu Leu Ser Arg Ser Asp
85 90 95
Leu Met Lys Asn Leu His Tyr Pro Leu Ala Ser Lys Leu Pro Asp Ser
100 105 110
Lys Xaa Leu Ile Cys Ala Ala Ala Ile Gly Thr Arg Glu Glu Asp Lys
115 120 125
His Arg Leu Lys Leu Leu Val Glu Ala Gly Leu Asp Ile Val Val Leu
130 135 140
Asp Ser Ser Gln Cys Asn Ser Ile Tyr Gln Ile Glu Met Ile Lys Trp
145 150 155 160
Val Lys Lys Thr Phe Pro Glu Ile Asp Val Ile Ala Gly Asn Leu Val
165 170 175
Thr Arg Glu Gln Ala Ala Ala Leu Ile Ala Ala Gly Ala Asp Gly Leu
180 185 190
Glu Asn Trp Leu Gly Leu Trp His Ser Pro Ala Ile Pro Pro Lys Ile
195 200 205
Leu Gly Phe Arg Ser Ser Arg Gly Arg Cys Arg Ser Gln Val Val Ser
210 215 220
Leu Ala Ala Gln Ser Gly Val Leu
225 230

<210> 23335
<211> 245
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (124)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23335
Pro Leu Gly Glu Ser Glu Asp Thr Gly Leu Ser Ser Gln Gly Asn Asn
1 5 10 15
Leu Arg Thr Ala Thr Ala Ser Gly Gly Pro Lys Thr Lys Asn Phe Trp
20 25 30
Gly Asn Gly Arg Gly Met Pro Glu Pro Lys Pro Ile Phe Gln Ala Ile

```
        35                  40                  45
Gly Thr Gly Ser Asn Gln Ser Cys Gly Leu Phe Pro Ser Asp Lys Val
    50                  55                  60
Ala Gly Asn Asp Val Asp Phe Gly Glu Cys Leu Leu His Pro Leu Asp
65                  70                  75                  80
His Leu Asp Leu Val Asp Ala Val Thr Leu Ala Ala Val Glu Asp Asp
                85                  90                  95
Asn Ile Lys Thr Ser Phe Asp Glu Lys Leu Glu Ser Val Leu Ile Leu
            100                 105                 110
Phe Thr Ser Thr Asn Arg Ser Ser Thr Asp Gln Xaa Leu Arg Ile Gly
        115                 120                 125
Lys Leu Arg Cys Gln Trp Val Val Glu Val Leu His Gln Val Thr Ala
    130                 135                 140
Arg Gln Gln Arg Asp Lys Val Ser Val Cys Ile Asn Asp Gly Glu Phe
145                 150                 155                 160
Ser Tyr Leu Gly Ala Thr Lys Asn Ile Val Gly Leu Gly Lys Ser Gly
                165                 170                 175
Thr Gly Arg Cys Gly Asp Lys Val Gly Gly His Asn Cys Ser Asp Arg
            180                 185                 190
Ile Ile Glu Val Gly Val Glu Leu Asp Met Tyr Gly Cys Asp His Thr
        195                 200                 205
Asp Glu Leu Gly Ala Glu Cys Ser Val Phe Cys His Lys Thr Gln Ile
    210                 215                 220
Arg Gln Trp Leu Ala Asn Ser Asp Cys Asp Gly Gly Lys Ser Leu Cys
225                 230                 235                 240
Val Val Asp Phe Arg
                245

<210> 23336
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23336
His Ser Pro His His Ser Lys Leu Asp Asp His Leu Arg Ser Leu Asp
1               5                   10                  15
Ser Gln Ile His Lys Ser Ser Leu Ile Ser Ala Leu His Leu Ser Ser
            20                  25                  30
Asp Lys Met Glu Arg Pro Asn Lys Pro Ser Ala Ile Gly Val Ala Ala
        35                  40                  45
Ser Leu Pro Gln Pro Thr Ile Thr Phe Arg Gln Asn Lys Ile Glu Ala
    50                  55                  60
Thr Leu Pro Thr Gly Glu Ser Val Thr Val His Leu Tyr Gly Ala Thr
65                  70                  75                  80
Val Thr Ser Val Phe Thr Thr Gly
                85

<210> 23337
<211> 205
<212> PRT
<213> A.fumigatus

<400> 23337
Phe Arg Gly Ser Phe Gln Pro Arg Val Lys Thr Ala Ala Phe Ala Lys
1               5                   10                  15
Ala Val Arg Ala Asn Lys Gly Cys Leu Ile Met Asp Thr Thr Trp Arg
```

```
            20                  25                  30
Asp Ala His Gln Ser Leu Leu Ala Thr Arg Val Arg Thr Ile Asp Leu
        35                  40                  45
Leu Asn Ile Ala Lys Glu Thr Ser His Ala Tyr Ala Asn Ala Tyr Ser
    50                  55                  60
Leu Glu Cys Trp Gly Gly Ala Thr Phe Asp Val Ala Met Arg Phe Leu
65                  70                  75                  80
Tyr Glu Asp Pro Trp Asp Arg Leu Arg Lys Leu Arg Lys Ala Val Pro
                85                  90                  95
Asn Ile Pro Phe Gln Met Leu Leu Arg Gly Ala Asn Gly Val Ala Tyr
            100                 105                 110
Ser Ser Leu Pro Asp Asn Ala Ile Tyr His Phe Cys Lys Gln Ala Lys
        115                 120                 125
Lys Cys Gly Val Asp Ile Phe Arg Val Phe Asp Ala Leu Asn Asp Val
    130                 135                 140
Asp Gln Leu Glu Val Gly Ile Lys Ala Val Gln Ala Ala Glu Gly Val
145                 150                 155                 160
Val Glu Ala Thr Ile Cys Tyr Ser Gly Asp Met Leu Asn Pro Lys Lys
                165                 170                 175
Lys Tyr Asn Leu Glu Tyr Tyr Leu Glu Glu Arg Glu His Thr Val Arg
            180                 185                 190
Leu Ile Pro Asp Ile Leu Gly Val Ser Asp Leu Asn Ile
        195                 200                 205
```

<210> 23338
<211> 122
<212> PRT
<213> A.fumigatus

```
<400> 23338
Thr Ser Pro Arg Lys Pro Val Thr Arg Thr Pro Thr Leu Thr Val Trp
1               5                   10                  15
Asn Ala Gly Val Val Pro Leu Ser Met Ser Pro Cys Ala Ser Ser Thr
            20                  25                  30
Arg Ile Pro Gly Thr Val Cys Ala Ser Cys Ala Arg Pro Cys Pro Thr
        35                  40                  45
Phe Pro Ser Arg Cys Cys Ser Ala Val Pro Thr Gly Ser Pro Thr Arg
    50                  55                  60
Leu Phe Pro Thr Thr Pro Phe Thr Thr Ser Ala Ser Arg Pro Arg Ser
65                  70                  75                  80
Ala Val Ser Thr Ser Ser Val Phe Ser Met Arg Ser Thr Thr Ser Thr
                85                  90                  95
Ser Ser Arg Ser Val Ser Arg Leu Cys Arg Pro Pro Arg Val Ser Ser
            100                 105                 110
Arg Arg Pro Ser Ala Thr Ala Glu Thr Cys
        115                 120
```

<210> 23339
<211> 162
<212> PRT
<213> A.fumigatus

```
<400> 23339
Cys Pro Pro Val Ala Val Gly Tyr Ser Cys Pro His Asp Arg Ser Ala
1               5                   10                  15
Glu His Arg Gln Gly Asn Gln Ser Arg Val Arg Gln Arg Leu Gln Phe
```

```
            20                  25                  30
Gly Met Leu Gly Trp Cys His Phe Arg Cys Arg His Ala Leu Pro Leu
        35                  40                  45
Arg Gly Ser Leu Gly Pro Ser Ala Gln Ala Ala Gln Gly Arg Ala Gln
    50                  55                  60
His Ser Leu Pro Asp Ala Ala Pro Arg Cys Gln Arg Gly Arg Leu Leu
65                  70                  75                  80
Val Ser Ser Arg Gln Arg His Leu Pro Leu Leu Gln Ala Gly Gln Glu
                85                  90                  95
Val Arg Cys Arg His Leu Pro Cys Phe Arg Cys Ala Gln Arg Arg Arg
            100                 105                 110
Pro Ala Arg Gly Arg Tyr Gln Gly Cys Ala Gly Arg Arg Gly Cys Arg
        115                 120                 125
Arg Gly Asp His Leu Leu Gln Arg Arg His Ala Glu Pro Gln Glu Glu
    130                 135                 140
Val Gln Pro Arg Val Leu Pro Gly Gly Ala Gly Thr His Cys Lys Thr
145                 150                 155                 160
Asp Pro
```

<210> 23340
<211> 197
<212> PRT
<213> A.fumigatus

<400> 23340

```
Asp Val Arg Asp Gln Ser Tyr Ser Val Phe Pro Leu Leu Gln Val Val
1               5                   10                  15
Leu Glu Val Val Leu Leu Leu Gly Val Gln His Val Ser Ala Val Ala
            20                  25                  30
Asp Gly Arg Leu Asp Asp Thr Leu Gly Gly Leu His Ser Leu Asp Thr
        35                  40                  45
Asp Leu Glu Leu Val Asp Val Val Glu Arg Ile Glu Asn Thr Glu Asp
    50                  55                  60
Val Asp Thr Ala Leu Leu Gly Leu Leu Ala Glu Val Val Asn Gly Val
65                  70                  75                  80
Val Gly Lys Arg Arg Val Gly Asp Pro Val Gly Thr Ala Glu Gln His
                85                  90                  95
Leu Glu Gly Asn Val Gly His Gly Leu Ala Gln Leu Ala Gln Thr Val
            100                 105                 110
Pro Gly Ile Leu Val Glu Glu Ala His Gly Asp Ile Glu Ser Gly Thr
        115                 120                 125
Thr Pro Ala Phe Gln Thr Val Ser Val Gly Val Arg Val Thr Gly Phe
    130                 135                 140
Leu Gly Asp Val Gln Gln Ile Asp Arg Ala Asp Thr Ser Ser Gln Gln
145                 150                 155                 160
Arg Leu Val Gly Ile Thr Pro Gly Gly Val His Asp Gln Ala Thr Leu
                165                 170                 175
Val Gly Thr Asp Ser Leu Gly Lys Ser Arg Gly Leu His Thr Gly Leu
            180                 185                 190
Glu Gly Ser Ala Glu
        195
```

<210> 23341
<211> 100
<212> PRT

<213> A.fumigatus

<400> 23341
Ala His Arg Lys His Gly Arg Cys Arg His Arg Thr Ser Trp Pro Ala
1 5 10 15
Cys Arg Ser Gly Lys Trp Arg Cys Arg Glu Glu Thr Ser Arg Arg Pro
20 25 30
Arg Trp His Arg Gly Ala Ala Ser Gly Arg Glu Cys Trp Ala Arg Pro
35 40 45
Cys Ala Ala Cys Ala Asp Gly Pro Arg Asp Pro Arg Arg Gly Ser Ala
50 55 60
Trp Arg His Arg Lys Trp His His Pro Ser Ile Pro Asn Cys Lys Arg
65 70 75 80
Trp Arg Thr Arg Asp Trp Phe Pro Trp Arg Cys Ser Ala Asp Arg Ser
85 90 95
Cys Gly His Glu
100

<210> 23342
<211> 109
<212> PRT
<213> A.fumigatus

<400> 23342
Ala Asp Leu Ser Ile Thr Ser Val Leu Lys Arg Lys Phe His Leu Ser
1 5 10 15
Gly Val Ile Leu Leu Phe Phe Gly Thr Ile Gln Ile Met Glu Tyr Val
20 25 30
Phe Gly Thr Leu Ser Leu Leu Leu Pro Val Leu Asp Leu Ile Arg Lys
35 40 45
Gly Lys Arg Ser Ile Arg Asp Met Lys Gln Leu Leu Gln Asn Glu Ser
50 55 60
Asp Met Glu Lys Leu Val Phe Ser Leu Lys Lys Leu Leu Asp Gly Leu
65 70 75 80
Lys Gly Val Ser Phe Asp Glu Asp Ile Pro Glu Leu His Lys Asp Leu
85 90 95
Tyr Ile Ser Leu Glu Lys Lys Met Tyr Glu Ser Ile Arg
100 105

<210> 23343
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23343
Glu Phe Ala Ala Gln Met Asn Leu Asn Leu Gly Asn Gly Trp Gly Ile
1 5 10 15
Val Arg Thr Ile Val Asp Arg Ile Arg Ala Leu Asp Ala Glu Glu Glu
20 25 30
Glu Asp Lys Val Lys Lys Tyr Val Leu Ile Lys Asp Pro Asn Arg Pro
35 40 45
Val Ile Arg Leu Tyr Ser Val Pro Pro Asn Thr Phe Glu Glu Asp Asp
50 55 60
Glu Ala Ala Glu Glu Gln Glu Glu Lys Ala Glu Asp Glu Ser Glu Glu
65 70 75 80

<210> 23344
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23344
Ile Val Ile Ile Ile Glu Phe Cys Thr Leu Ser Tyr Gln Asn Ile Ile
1 5 10 15
Leu Gln Leu Asn Tyr Ile Asn Gln Ala Cys Ser Lys Ile Asn Phe Asn
20 25 30
Gln His His Thr Phe Pro Glu Phe Arg Ser Gln Thr Ala Thr Pro Thr
35 40 45
Thr Gln His Arg Gln Pro Asp Gln Val Trp Lys Leu Ala His Ser
50 55 60

<210> 23345
<211> 159
<212> PRT
<213> A.fumigatus

<400> 23345
His Tyr Arg Arg Gly Cys Phe Cys Trp Ala Ala Thr His Ala Ser Arg
1 5 10 15
Phe Glu Pro Ser Lys Phe Gln Leu Ile His Phe His Pro Pro Gly Gln
20 25 30
Gly Pro Arg Gly Gly Pro Gly Glu Pro Leu Asn Leu Gly Asp Gly Gln
35 40 45
Ile Ile Glu Ala Ser Ala Thr Ala Arg Leu Leu Gly Val Ile Leu Asp
50 55 60
Gln Arg Leu Thr Phe Glu Ser His Leu Lys His Val Asp Thr Ala Ala
65 70 75 80
Thr Arg Arg Leu Gln Ala Ile Ser Ala Leu Gly Gly Ser Lys Trp Gly
85 90 95
Leu Arg Leu Arg Glu Leu Arg His Val Tyr Thr Ala Cys Ile Thr Pro
100 105 110
Ile Met Leu Tyr Ala Ala Ser Val Trp Tyr Ala Pro Pro Val Arg Gly
115 120 125
Arg Lys Arg Leu His Ser Gln Gln Thr Lys Val Leu Asn Gln Ile Gln
130 135 140
Arg Arg Ala Gly Lys Leu Ile Ala Gly Ala Phe Arg Thr Val Lys
145 150 155

<210> 23346
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23346
Gly Gly Ser Ala Ser Glu Glu His Ser Ser Leu Ser Leu Trp Leu Tyr
1 5 10 15
Ser Ser Ala Cys Leu Ser Glu Leu Asp Thr Gln His Trp Ala Trp Ala
20 25 30
Ser Val Ile Leu Asp Ser Glu Ala Cys His Ser Lys Val Arg Asp Gln
35 40 45
Thr Tyr Gln Tyr Gln Glu Ala Glu Lys Asn Gln Gln Ile Pro Phe Pro
50 55 60

```
Arg Cys Ile Gly Pro Ser Ala Lys Arg Asp Ala Arg Ser Ser Thr Gln
65                  70                  75                  80
Lys Ile Leu Leu Pro Trp
                85
```

<210> 23347
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23347

```
Thr Phe Ser Arg Ser Thr Ser Leu Leu Phe Phe Ile Tyr Ile Leu Ile
1               5                  10                  15
Ile Ile Phe Ile Tyr Tyr Asn Tyr Phe Cys Pro Ser Leu Val Leu Pro
            20                  25                  30
Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Gly Gly Gly Gly Val
        35                  40                  45
Leu Arg Gly Ile Ile Cys Tyr Asn Phe His Phe Leu
    50                  55                  60
```

<210> 23348
<211> 369
<212> PRT
<213> A.fumigatus

<400> 23348

```
Leu Thr Ile Val Pro His Pro Arg His Ser Lys Pro Asp Ala Ser Glu
1               5                  10                  15
Gly Gln Trp Thr His Asp Leu His Glu Thr Val Ala Gly Asp Glu Pro
            20                  25                  30
Thr Asn Lys Pro Ser Ala Val Pro Glu Ser Met Ser Asp Phe Ala Pro
        35                  40                  45
Lys Pro Val Pro Thr Ala Pro Arg Ser Thr Pro Pro Asn Arg Ser Phe
    50                  55                  60
Ser Ser Thr Thr Leu Ile Gly Asn Val Pro Val Val Val Phe Leu Gln
65                  70                  75                  80
Gly Met Ala Arg Pro Ile Pro Phe Pro Ala Val Pro Lys Lys Gln His
                85                  90                  95
Thr Arg Leu Pro Gln His Arg Pro Pro Leu Arg Arg Asp Lys Pro Val
            100                 105                 110
Arg Ile Ser Leu Pro Gly Gln Ser Pro Arg Tyr Ile Phe Pro Ser Thr
        115                 120                 125
Glu Arg Ser Phe Ile Phe Ile Pro Arg Ala Leu Met Pro Asn Gln Gln
    130                 135                 140
Gly Tyr Arg Gly Arg Gly Arg Gly Gly Phe Tyr Gly Gly Arg Arg Pro
145                 150                 155                 160
Ser Phe Tyr Ala Gly Ser Val Tyr Thr Pro Ser Val Thr Ala Ser Arg
                165                 170                 175
Arg Ser Ser Met Gly Lys Pro Ala Ser His Asp Gly Tyr Pro Ser Pro
            180                 185                 190
Ala Ala Ser Val Leu Ser Arg His Thr Val Val Thr Thr Glu Asn Gly
        195                 200                 205
Lys Pro Ile Val Arg Leu Pro Pro Pro Ser Arg Pro Leu Gly Gly Val
    210                 215                 220
Pro Pro Ala Ala Ala Ala Thr Gly Pro Ala Ala Val Val Pro Ala Ser
225                 230                 235                 240
```

```
Leu Pro Gln Pro Met Pro Gln Pro Gln Pro Gln Gln Pro Ser Tyr Arg
                245                 250                 255
Glu Ser Arg Pro Ala Pro Ile Pro Met His Gln Pro Arg Pro Gln Lys
            260                 265                 270
Ala Val Ser Val Ala Asp Ile Glu Thr Pro Ala Arg Phe Ser Phe Asn
        275                 280                 285
Ala Pro Gln Pro Gln Gln Glu Gln Pro Phe Gln His Gln Val Pro Met
    290                 295                 300
Pro Ile Asn Gly Pro Gly Tyr Gly Ala Asp Val Gln Ser Ala His Ala
305                 310                 315                 320
Ala Gly Thr Pro Ser Ser His Ile Pro Glu Arg Ala Ile His Ala Gln
                325                 330                 335
Pro Phe Gln Pro Tyr Gly Phe Gln Gln Ala Gln Pro Phe Tyr Pro Ala
            340                 345                 350
Ala Tyr Pro Pro Gly Leu His His Gly Ala Gly Arg Ile Arg Gly Gly
        355                 360                 365
Leu
```

<210> 23349
<211> 373
<212> PRT
<213> A.fumigatus

<400> 23349

```
Asn Leu Tyr Thr Ile Tyr Asp Gly Pro His Gly Thr Leu Glu Met Gly
1               5                   10                  15
Arg Ile Gln Arg His Gln Thr Gln Gln Pro Ser Asn Gln Pro Gly Arg
            20                  25                  30
Arg Gln Arg Gln His Pro Pro Thr Glu Asp Lys Ala Gln Leu Pro Pro
        35                  40                  45
Val His Arg Ser Gln Ile Ile Ile His Gln Arg His Pro Ser Ser Arg
    50                  55                  60
Thr Arg Gln Ala Leu Gly Arg Arg His Gly Gln Pro Gln Pro Gly Arg
65                  70                  75                  80
Gln Gln His Arg Asp Gly Arg Ala Gln Leu Arg Arg Lys Pro Ser Gly
                85                  90                  95
Arg Arg His Leu Arg Asp Leu Val Thr Gln Arg Pro His Asp Ile Ile
            100                 105                 110
Pro Val Glu Pro Glu Pro Gln Thr Gln Gln Gln Ala Arg Asn His Lys
        115                 120                 125
Glu Pro His Arg Arg Arg Arg Leu Gly Ile Tyr Arg Ala Ser Thr Val
    130                 135                 140
Arg Arg Ile His Gly Gly Pro Arg Pro His Arg Ile Arg His Val Val
145                 150                 155                 160
Ala Pro Val Arg Asn Arg His His His Gly Arg Asp His Leu Ala Val
                165                 170                 175
Gly Pro Glu Val Leu Asp Ala Val Val Val Ala Ala Arg Ala Arg Val
            180                 185                 190
Asp Val Ala Gln Gln Gly Gly Val Val Arg Asp His Val Ala Gly Asp
        195                 200                 205
Ala Leu Gln Glu Ala Glu Leu Asp Pro Ala Glu Pro Phe Pro Gly Val
    210                 215                 220
Cys Pro Gly Glu Val Gly Asp Arg Val Glu Glu Ala Phe Val Arg Ala
225                 230                 235                 240
Glu Val Phe Leu Ala Gly Phe Glu Leu Arg Gly Gly Leu Gly Gly Val
```

```
                245                 250                 255
Gly Cys Ala Phe Asp Val Val Ser Gly Leu Glu Glu Phe Gly Val Gly
            260                 265                 270
Gly Leu Gly Leu Leu Arg Leu Leu Leu Gly Gly Val Glu Val Gly Phe
        275                 280                 285
Arg Ala Gly Glu Asp Phe Ala Val Gly Val Phe Val Val Val Cys Asp
    290                 295                 300
Glu Phe Val Ala Leu Ala Gly Glu Val Glu Arg Ala Cys Ile Leu Glu
305                 310                 315                 320
Lys Pro Trp Ala Glu Gly Glu Val Val Asp Ala Asp Ala Gly Val Leu
                325                 330                 335
Leu Asp Glu Ala Ala Val Glu Val Trp Glu Glu Glu Asp Tyr Ser Asp
            340                 345                 350
Glu Glu Ala Val Glu Glu Asp Ala Gln Asp Asp Ala Asp Arg Phe Ala
        355                 360                 365
Gly Ala Glu Phe Leu
    370
```

<210> 23350
<211> 180
<212> PRT
<213> A.fumigatus

<400> 23350

```
Ser Ser Ser Ser His Thr Ser Thr Ala Ala Ser Ser Ser Arg Thr Pro
1               5                   10                  15
Ala Ser Ala Ser Thr Thr Ser Pro Ser Ala His Gly Phe Ser Arg Ile
            20                  25                  30
His Ala Arg Ser Thr Ser Pro Ala Lys Ala Thr Asn Ser Ser Gln Thr
        35                  40                  45
Thr Thr Lys Thr Pro Thr Ala Lys Ser Ser Pro Ala Arg Lys Pro Thr
    50                  55                  60
Ser Thr Pro Pro Ser Ser Asn Arg Asn Asn Pro Asn Pro Pro Thr Pro
65                  70                  75                  80
Asn Ser Ser Ser Pro Leu Thr Thr Ser Asn Ala Gln Pro Thr Pro Pro
                85                  90                  95
Asn Pro Pro Arg Ser Ser Asn Pro Ala Arg Asn Thr Ser Ala Arg Thr
            100                 105                 110
Asn Ala Ser Ser Thr Arg Ser Pro Thr Ser Pro Gly His Thr Pro Gly
        115                 120                 125
Asn Gly Ser Ala Gly Ser Ser Ser Ala Ser Cys Arg Ala Ser Pro Ala
    130                 135                 140
Thr Trp Ser Arg Thr Thr Pro Pro Cys Cys Ala Thr Ser Thr Arg Ala
145                 150                 155                 160
Arg Ala Ala Thr Thr Thr Ala Ser Ser Thr Ser Gly Pro Thr Ala Arg
                165                 170                 175
Trp Ser Arg Pro
            180
```

<210> 23351
<211> 283
<212> PRT
<213> A.fumigatus

<400> 23351

```
Arg Ser Asp Glu Arg Asn Pro Ser Pro Leu His Arg Arg Arg Ser Pro
```

```
1               5                   10                  15
His Arg Pro Leu Pro Arg Gly Ile Arg Arg Arg Gln Ser Gly Arg His
            20                  25                  30
His Pro Gly Arg Leu Leu Arg Leu Pro Leu His Arg Ser Ser Leu Leu
        35                  40                  45
Pro Pro Ile Leu Pro Pro Pro Pro Arg Gln Ala Gly Arg Pro Arg Pro
    50                  55                  60
Arg Leu Pro Pro Pro Pro Arg Pro Met Ala Ser Gln Gly Tyr Met His
65                  70                  75                  80
Ala Leu Leu Pro Arg Pro Arg Arg Gln Ile Arg His Lys Leu Leu Arg
                85                  90                  95
Arg Arg Leu Arg Arg Ser Pro Arg Arg Arg Glu Ser Pro Pro Pro His
            100                 105                 110
His Arg Ala Ala Thr Ala Thr Ile Pro Thr His Arg His Gln Ile Pro
        115                 120                 125
Arg Val His Ser Arg His Arg Thr His Ser Arg Leu Arg Pro Ile His
    130                 135                 140
Pro Gly Ala Gln Thr Pro Gln Glu Thr Pro Arg Pro Ala Arg Thr Leu
145                 150                 155                 160
Pro Pro Pro Gly Arg Arg Pro Pro Leu Asp Thr Pro Pro Glu Met Ala
                165                 170                 175
Arg Leu Asp Gln Val Leu Pro Pro Ala Gly Arg His Pro Arg Arg Gly
            180                 185                 190
His Ala Arg Leu Arg Pro Ala Ala Arg His Pro Leu Ala Arg Ala Pro
        195                 200                 205
Leu Arg Arg Pro Arg Arg Ala Leu Leu Asp Leu Leu Pro Gly Gly Leu
    210                 215                 220
Ala His Asp Asp Val Asp Cys Ala Arg Glu Gln Arg Arg Gly Glu Cys
225                 230                 235                 240
Gly Gly Ala Val Gly Arg Arg Val Cys Asp Val Pro Cys Trp Arg Gly
                245                 250                 255
Arg Tyr Arg Gly Ala Asp Ala Gly Val Val Pro Cys Asp Cys Gly Leu
            260                 265                 270
Ala Ala Gly Ser Gly Val Leu Val Leu Arg Val
        275                 280
```

<210> 23352
<211> 382
<212> PRT
<213> A.fumigatus

<400> 23352

```
Leu Ala Ala Thr Ser Ala Ile Leu Ala Leu Phe Ile Val Val Glu Ala
1               5                   10                  15
Pro Thr Ala Pro Ser Leu Glu Glu Phe Gly Ala Gly Lys Ala Val Gly
            20                  25                  30
Ile Ile Leu Gly Val Phe Phe Asp Cys Leu Phe Ile Gly Val Val Phe
        35                  40                  45
Phe Leu Pro Tyr Phe His Arg Arg Leu Val Lys Gln Asp Ala Arg Val
    50                  55                  60
Arg Val Tyr His Leu Pro Leu Gly Pro Trp Leu Leu Lys Asp Thr Cys
65                  70                  75                  80
Thr Leu Tyr Phe Pro Gly Gln Gly Asp Lys Phe Val Thr Asn Tyr Tyr
                85                  90                  95
Glu Asp Ala Tyr Gly Glu Val Leu Ala Gly Ala Lys Ala His Leu His
            100                 105                 110
```

```
Thr Thr Glu Gln Gln Pro Gln Gln Ser Gln Pro Thr Asp Thr Lys Phe
        115                 120                 125
Leu Glu Ser Thr His Asp Ile Glu Arg Thr Ala Asp Ser Ala Gln Ser
    130                 135                 140
Thr Pro Glu Leu Lys Pro Arg Lys Lys His Leu Gly Pro His Glu Arg
145                 150                 155                 160
Phe Leu His Pro Val Ala Asp Leu Pro Trp Thr His Pro Arg Lys Trp
                165                 170                 175
Leu Gly Trp Ile Lys Phe Cys Leu Leu Gln Gly Val Thr Arg Asp Val
            180                 185                 190
Val Thr His Asp Ser Ala Leu Leu Arg Asp Ile His Ser Arg Ala Arg
        195                 200                 205
Arg Tyr Asp Asp Arg Val Glu His Phe Trp Thr Tyr Cys Gln Val Val
    210                 215                 220
Ser Pro Met Met Met Ser Ile Ala His Gly Ser Asn Asp Val Ala Asn
225                 230                 235                 240
Ala Val Gly Pro Trp Ala Ala Val Tyr Ala Thr Tyr Arg Ala Gly Ala
                245                 250                 255
Val Asp Thr Glu Ala Pro Thr Pro Val Trp Phe Leu Val Ile Ala Gly
            260                 265                 270
Leu Leu Leu Gly Leu Gly Phe Trp Phe Tyr Gly Tyr Asn Ile Val Arg
        275                 280                 285
Ala Leu Gly Asn Lys Ile Thr Gln Met Ser Pro Thr Arg Gly Phe Ala
    290                 295                 300
Thr Glu Leu Gly Ala Ala Ile Thr Val Leu Leu Ala Ser Arg Leu Gly
305                 310                 315                 320
Leu Pro Val Ser Thr Thr Gln Cys Leu Thr Gly Ala Ala Thr Gly Val
                325                 330                 335
Ala Leu Met Asn Tyr Asp Leu Gly Ala Val Asn Trp Arg Gln Leu Gly
            340                 345                 350
Phe Ile Phe Ser Gly Trp Val Leu Thr Leu Pro Ser Ala Gly Leu Ile
        355                 360                 365
Gly Gly Leu Leu Cys Leu Met Ala Leu Asn Thr Pro His Phe
    370                 375                 380
```

<210> 23353
<211> 99
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23353

```
Lys Val Lys Leu Arg Tyr Gln Val Leu Gln Gln Arg Glu Asn Tyr Glu
1               5                   10                  15
Arg Trp Ala Glu Trp Lys Asp Asp Ile Val Arg His Glu Arg Glu Gln
            20                  25                  30
Asp Arg Leu Ala Ala Ala Lys Xaa Glu Arg Ile Ser Arg Glu Gly Ala
        35                  40                  45
Gln Lys His Ala Ser Arg Asn Ser Val Phe Gly Asp Phe Pro Lys Gly
    50                  55                  60
Leu Gly His Gly Met Met Gly Ala Ala Trp Gln Ile Leu Gly Met Gln
65                  70                  75                  80
```

His Ala Gly His Lys Ala Phe Asp Gln Pro Ile Glu Thr Ser Leu Ala
85 90 95
Pro Ser Tyr

<210> 23354
<211> 228
<212> PRT
<213> A.fumigatus

<400> 23354
Ile Leu Arg Asn Glu Glu Leu Ile Arg Val Asp Gln Asp Val Leu Gly
1 5 10 15
Leu Gln Ala Thr Leu Ala Ser Arg Gly Leu Glu Val Asp Val Leu Thr
20 25 30
Arg Ser Leu Glu Gly Gly Asp Arg Leu Ile Thr Val Leu Asn Arg Gly
35 40 45
Asp Gly Val Ala Val Val Ser Val Pro Val Glu Trp Met Gly Leu Gln
50 55 60
Arg Gly Cys Pro Tyr Val Val Lys Asn Leu Trp Asp Gly Glu Val Gln
65 70 75 80
Val Leu Glu Glu Glu Ile Val Ile Arg Leu Asn Ser His Ala Thr Gln
85 90 95
Val Tyr Arg Ile Ala Leu Pro Asp Glu Cys Ser Thr Val Ile Pro Thr
100 105 110
Gly Ile Val Phe Asn Thr Ala Ser Gly Asn Cys Leu Thr Asp Glu Asn
115 120 125
Gly Glu Arg Val Gly Phe Glu Ala Cys Arg Gly Ser Glu Thr Gln Ile
130 135 140
Trp Gln Val Ser Glu Leu Gly Tyr Leu Arg Pro Leu Ser Arg Thr Ser
145 150 155 160
His Cys Leu Thr Gly Gly Ser Gln Ala Ser Val Gln Leu Cys Thr Glu
165 170 175
Gln Lys Asn Gln Gln Trp Ala Tyr Ala Ile Thr Gly Ile Leu Lys Asn
180 185 190
Glu His Thr Glu Met Cys Leu Thr Glu Gly Thr Gly Ile Ser Gln Cys
195 200 205
Gly Phe Glu Arg Asp Ser Gln Val Phe Gly Leu Pro Ser Gly Val Asn
210 215 220
Ile Lys Pro Ser
225

<210> 23355
<211> 168
<212> PRT
<213> A.fumigatus

<400> 23355
Tyr Arg Arg Arg Ala Thr Ala Pro Pro Asn Ala Gly Asp Ile Pro Pro
1 5 10 15
Thr Arg Val Pro Asn Pro Ser Thr Thr Thr Pro Ser Ser Thr Ser Pro
20 25 30
Cys Ser Gly Thr Ser Ser Ser Ser Ala Cys Arg Pro Pro Thr Pro Ser
35 40 45
Arg Thr Ala Ser Thr Pro Ser Thr Ser Ser Cys Arg Pro Gly Lys Ala
50 55 60

```
Ser Ile Leu Leu Pro Ala Cys Ala Arg Thr Arg Ser Asn Gly Thr Trp
65                  70                  75                  80
Thr Pro Ala Pro Pro Lys Ala Glu Arg Cys Gly Ser Met Ser Thr Arg
                85                  90                  95
Ser Cys Arg Thr Leu Trp Arg Leu Lys Thr Ala Ala Arg Gly Pro Leu
            100                 105                 110
Pro Leu Ala Arg Ser Ser Ser Leu Pro Cys Leu Glu Arg Gln Gln Val
        115                 120                 125
Gly Tyr Cys Ala Lys Gly Thr Met Arg Met Pro Val Leu Arg Arg Lys
    130                 135                 140
Ala Met Arg Ile Val Lys Arg Leu Gly Cys Gly Cys Ser Ala Ala Ser
145                 150                 155                 160
Arg Leu Pro Val Ser Gly Tyr Thr
                165
```

<210> 23356
<211> 172
<212> PRT
<213> A.fumigatus

```
<400> 23356
Gly Leu Thr His Ala Trp Ile Leu Pro Gly Arg Trp Leu Ile Ser Glu
1               5                   10                  15
Thr Gly Asp Arg Ala Ala Lys Arg Arg Arg His Ser Ser Asp Glu Gly
            20                  25                  30
Pro Glu Pro Val Tyr Asp Asp Thr Val Phe Tyr Gln Ser Leu Leu Arg
        35                  40                  45
Asp Leu Val Glu Gln Arg Met Ser Ser Ser Asp Ala Ile Thr Asn Gly
    50                  55                  60
Ile Asp Thr Leu His Leu Gln Leu Pro Ser Arg Gln Gly Ile His Pro
65                  70                  75                  80
Ile Thr Gly Met Arg Lys Asp Lys Val Lys Arg Asp Val Asp Thr Arg
                85                  90                  95
Ala Ser Lys Gly Arg Lys Met Arg Phe Asp Val His Glu Lys Leu Gln
            100                 105                 110
Asn Phe Met Ala Pro Glu Asp Arg Gly Thr Trp Thr Ile Thr Ala Arg
        115                 120                 125
Glu Glu Phe Phe Ala Ser Leu Leu Gly Lys Thr Ala Ser Gly Leu Leu
    130                 135                 140
Arg Glu Gly Asp Asp Glu Asp Ala Ser Ser Ala Glu Glu Ser Asp Glu
145                 150                 155                 160
Asp Arg Glu Glu Val Gly Leu Arg Leu Phe Arg Ser
                165                 170
```

<210> 23357
<211> 142
<212> PRT
<213> A.fumigatus

```
<400> 23357
Leu Ser Leu Ile Asp Leu Gly Gly Asp Arg Phe Gly Ser Phe Val Leu
1               5                   10                  15
Asp Tyr Phe Lys His Val Ser Arg Pro Thr Leu Lys His Met Gly Leu
            20                  25                  30
Ser Leu Leu Arg Lys Thr Ala Ser Pro His Asp Thr Leu Phe Tyr Thr
        35                  40                  45
```

```
Val Cys Val Asn Ser Met Ala Tyr Lys Phe Ile Asn Cys Leu Leu Met
    50                  55                  60
Asp Glu Asp Asp Gly Gln Leu Ser Gln Met Leu Arg Glu Arg Ala Ala
65                  70                  75                  80
Lys Tyr Lys Arg Thr Ala Gln Asn Ala Leu Arg Arg Ile Pro Leu Leu
                85                  90                  95
Thr Ser Pro Ser Leu Ala Leu Leu Gln Ala Thr Leu Cys Gly Val Ser
            100                 105                 110
His Lys Thr Phe Arg Phe Phe Cys His Asn Leu Thr Glu Ser Arg Phe
        115                 120                 125
Ser Tyr Ala Arg Gly Gln Val Arg Leu Ser Cys Ala Val Ile
    130                 135                 140
```

<210> 23358
<211> 105
<212> PRT
<213> A.fumigatus

<400> 23358

```
Arg Ile Phe Ile His Val Asp Glu His Leu Thr Arg Asp Tyr Leu Asp
1               5                   10                  15
Leu Asn Lys Lys Ser Ile Gly Ser Val Leu Thr Val His Leu Gln Asp
            20                  25                  30
Gly Ser Glu Leu Ala Glu Val Leu Ile Glu Tyr Pro Ala Gly His Val
        35                  40                  45
Arg Asn Pro Ala Thr Ala Arg Ala Val Gln Glu Lys Phe Thr Lys Asn
    50                  55                  60
Met Arg Leu Met Phe Thr Glu Thr Glu Ile Ser Lys Ile Leu Gln Glu
65                  70                  75                  80
Thr Arg Lys Asp Asn Leu Leu Ile Met Asp Phe Val Asp Leu Phe Val
                85                  90                  95
Lys Gln Ser Pro Pro Gly Pro Arg Leu
            100                 105
```

<210> 23359
<211> 86
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23359

```
Ala Lys His Leu Val Arg Thr Val Ser Ile Arg Xaa Pro Ile Gly Thr
1               5                   10                  15
Trp Gly Ser Arg Ile Met Glu Ile Trp Met Pro Leu Asn Thr Ile Phe
            20                  25                  30
Ala Ser Gly Gly Pro Ala Glu Gln Tyr Cys Gly Asn Trp Asp Tyr Gly
        35                  40                  45
Leu Pro Leu Ser Arg Ala Tyr Ala Glu Tyr Phe Gly Gly Ser Ile Ala
    50                  55                  60
Ile Gln Ser Leu Trp Gly Trp Gly Thr Asp Val Tyr Leu Thr Leu Gln
65                  70                  75                  80
Gly Val Gly Lys Ile Glu
```

85

<210> 23360
<211> 298
<212> PRT
<213> A.fumigatus

<400> 23360
Pro Arg Gly Gln Gln Asp Gly His Ala Gly Glu Gly Arg Gly Glu Ser
1 5 10 15
Ser Arg Ser Val Tyr Glu Gly Leu Ala Asp Ser Ile Leu Gln Asn Arg
20 25 30
Phe Asn Ile Gln Leu His Ala Pro Ala Val Val Leu Leu Tyr Leu Thr
35 40 45
Thr Arg Lys Tyr Val Leu Ser Ser Met Tyr Pro Tyr Met Thr Leu Leu
50 55 60
Gly Gln Ser Leu Gly Ser Leu Val Val Ala Tyr Asp Ala Phe Asn Leu
65 70 75 80
Leu Val Pro Asp Val Phe Ile Asp Thr Met Gly Tyr Ala Phe Thr Leu
85 90 95
Ala Phe Cys Lys Met Leu Phe Pro Ser Val Pro Thr Gly Ala Tyr Val
100 105 110
His Tyr Pro Thr Ile Ser Thr Asp Met Leu Gln Ser Leu Asp Asp Ser
115 120 125
Thr Gly Leu Lys Gly Val Asn Ala Gly Ala Gly Lys Gly Phe Lys Gly
130 135 140
Gln Val Lys Arg Lys Tyr Trp Leu Ala Phe Ala Arg Leu Tyr Gly Trp
145 150 155 160
Val Gly Gly His Val Asp Val Val Met Cys Asn Ser Ser Trp Thr Ser
165 170 175
Ala His Ile Arg Thr Ile Trp Gly Pro Ser Arg Thr Ser Met Thr Phe
180 185 190
Lys Glu Pro Thr Val Ile Phe Pro Pro Lys Ala Val Ser Glu Ile Glu
195 200 205
Ser Thr Ile Thr Val Asp Glu Asp Ser Glu Arg Ser Arg Glu Pro Ile
210 215 220
Ile Leu Tyr Ile Ala Gln Phe Arg Pro Glu Lys Lys His Pro Leu Val
225 230 235 240
Leu Arg Thr Phe Ala Arg Phe Phe Ile Glu Arg Lys Thr Lys Pro Pro
245 250 255
Ser Gly Ala Leu Pro Gln Pro Lys Thr Gly Pro His Gly Val Arg Ser
260 265 270
Val Thr Pro Ser Pro Glu Lys Asn Pro Pro Leu Ile Asn Ser Gly Arg
275 280 285
Leu Ala Gln Gln Asn Ser Gly Ile Arg Gly
290 295

<210> 23361
<211> 217
<212> PRT
<213> A.fumigatus

<400> 23361
Lys Arg Pro Thr Ala Glu Asn Ala Ser Ala Asn Val Glu Ala Glu Val
1 5 10 15
Leu Asp His Phe Gly Gln Phe Ala Asn Ser Glu Lys Leu Lys Leu Gln

```
            20                  25                  30
Glu Arg Arg Arg Asn Gln Ala Ser Tyr Asp Arg Thr Val Lys Leu Asn
        35                  40                  45
Glu Leu Met Lys Phe Ser Lys Asn Phe Lys Leu Ala Thr Pro Val Pro
    50                  55                  60
Lys Asp Met Val Arg Ile Leu Ala Lys Asp Pro Gln Lys Gln Glu Glu
65                  70                  75                  80
Ile Ile Gln Arg Ala Gln Gln Gln Ala Glu Glu Lys Leu Ala Ser Lys
                85                  90                  95
Thr Ala Ser Gly Val Thr Glu Gln Lys Pro Thr Ser Arg Val Ser Gly
            100                 105                 110
Thr Val Gln Thr Thr Thr Gln Pro Glu Arg Pro Asn Tyr Pro Arg Gly
        115                 120                 125
Arg Gln Met Tyr Pro Pro Thr Gly Pro Gln Ala Gly Pro Ala Gly Arg
    130                 135                 140
Leu Pro Pro Gln Gly Met His Pro Gly Arg Pro Gly Thr Gly Met Leu
145                 150                 155                 160
Ser His Arg Leu Ala Asp Asn Leu Gln Gln Arg Lys Gly Ala Ala Met
                165                 170                 175
Ala Pro Val Pro Thr Pro Leu Pro Ile Gln Glu Val Arg Ile Pro Pro
            180                 185                 190
Ser Gly Arg Ala Ala Asp Gln Pro Gly Val Ser Ser Pro Asn Lys Thr
        195                 200                 205
Gln Thr Leu Thr Ser Glu Asn Ser Ser
    210                 215
```

<210> 23362
<211> 210
<212> PRT
<213> A.fumigatus

<400> 23362

```
Arg Gly Leu Asp Pro Ile Leu Val Gln Gln Ile Lys Arg Trp Asn Arg
1               5                   10                  15
Thr Ala Ala Val Pro Thr Thr Gly Met Ile Pro Arg Leu Ala Leu Arg
            20                  25                  30
Ser Val His Asp Glu Asn Val Arg Arg Glu Val Tyr Leu Ala Ser Arg
        35                  40                  45
Thr Ser Ser Lys Arg Gln Leu His Arg Leu Glu Glu Leu Leu Leu Lys
    50                  55                  60
Arg Ala Glu Leu Ala Lys Leu Ser Gly Tyr Glu Ser Phe Ala His Met
65                  70                  75                  80
Thr Leu Ser Asp Lys Met Ala Lys Ser Pro Glu Ala Val Ser Asn Phe
                85                  90                  95
Leu Thr Ala Leu Val Glu Ser Asn Arg Lys Leu Val Arg Glu Glu Leu
            100                 105                 110
Ser Gln Leu Gln Val Met Lys Gly Ala Pro Leu Gln Pro Trp Asp His
        115                 120                 125
Ala Tyr Tyr Val His Gln Arg Val Leu Gln Tyr Ser Gln Ala Arg Arg
    130                 135                 140
Ser Arg Glu Leu Ser Ala Val Pro Glu Phe Phe Ser Leu Gly Thr Val
145                 150                 155                 160
Met Gln Gly Leu Ser Arg Leu Phe Asp Arg Leu Tyr Gly Val Arg Leu
                165                 170                 175
Val Pro Gln Glu Pro Ala Pro Gly Glu Thr Trp Asn Pro Asp Val Arg
            180                 185                 190
```

```
Arg Leu Asp Val Val Ser Ser Pro Arg Gly Trp Lys Asp Pro Ser Gly
        195                 200                 205
Val Gln
    210

<210> 23363
<211> 142
<212> PRT
<213> A.fumigatus

<400> 23363
Arg Trp Met Arg Ala Met His Val Asp Ala Phe Phe Glu Tyr Cys Leu
1               5                   10                  15
Gly His Pro His Pro Tyr Tyr Thr Gln Leu Pro Ala Ser Asn Ala Ala
            20                  25                  30
Val Ser Asp Thr Arg Asp Gly Val Pro Leu Glu Glu Asp Leu Ala Leu
        35                  40                  45
Arg Ala Leu Val Pro Glu Trp Lys Pro Lys Arg Gly Arg Lys Arg Ala
    50                  55                  60
Asp Glu Arg Glu Gln Ala Asn Glu Lys Pro Thr Lys Arg Pro Gln Leu
65                  70                  75                  80
Asp Thr Ser Val Gly Val Leu His Ala Gly Ser Phe Thr Asp Gln Ser
                85                  90                  95
Ala Thr Phe Pro Gln Asn Ala Ile Pro Phe Ser Ala Phe Pro Asp Asn
            100                 105                 110
Asp Pro Trp Met Thr Ala Ala Ser Ser Phe Pro Ala Asp Gly Ser Thr
        115                 120                 125
Asp Asn Gln Gln Gly Gln Glu Leu Arg Trp Arg Pro Leu Glu
    130                 135                 140

<210> 23364
<211> 313
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (262)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23364
Thr Arg Ile Ile Thr Arg Gly Gly Arg Gln Thr Val Leu Phe Lys Asp
1               5                   10                  15
Gln Leu Val Glu Glu Ser Leu Phe Ser Gly Asp Asp Asp Asp Ala His
            20                  25                  30
Phe His Lys Glu Thr Lys Pro Thr Ser Ala Lys Trp Pro Ile Leu Asp
        35                  40                  45
Ala Pro Pro Asp Val Val Phe Gln Lys Leu Lys Glu Val Asp Pro Val
    50                  55                  60
Ile Ala Ser Arg Trp His Pro Asn Asp Val Arg Lys Ile Arg Arg Ser
65                  70                  75                  80
Leu Glu Ile Tyr Phe Gln Thr Gly Lys Pro Ala Ser Glu Ile Tyr Ala
                85                  90                  95
Glu Gln Lys Arg Gln Lys Tyr Ala Thr Gly Thr Asn Gly Glu Ser Ser
            100                 105                 110
Pro Gly Ile Gly Gln Leu Arg Tyr Pro Thr Leu Ile Phe Trp Val His
```

```
        115                 120                 125
Ser Glu Lys Glu Thr Leu Asn Cys Arg Leu Ala Lys Arg Val Asp Ser
    130                 135                 140
Met Val Glu Gln Gly Leu Met Ala Glu Ala Gln Arg Met Trp Ala Tyr
145                 150                 155                 160
Ile Arg Glu Lys Lys Gly Gln Gly Ile Thr Val Asp Gln Thr Arg Gly
                165                 170                 175
Val Trp Val Ser Ile Gly Phe Lys Glu Leu Ala Pro Tyr Phe Asp Ala
            180                 185                 190
Leu Glu Asn Gly Glu Leu Ser Glu Gly Glu Leu Glu Ala Leu Lys Gln
        195                 200                 205
Ser Ser Ile Glu Leu Val Lys Ile Ala Thr Arg Gln Tyr Ala Thr Ser
    210                 215                 220
Gln Ile Lys Trp Ile Arg Asn Lys Leu Trp Lys Ala Leu Ala Asp Ala
225                 230                 235                 240
Ser Ala Asn Lys Asn Leu Tyr Leu Leu Asp Ser Thr Thr Val Glu Asp
                245                 250                 255
Trp Gln Lys Trp Val Xaa Glu Pro Ser Glu His Leu Thr Gln Ala Leu
            260                 265                 270
Leu Asn Asp Glu Thr Leu Thr Gly Pro Leu Ile Ser Leu Arg Thr Trp
        275                 280                 285
Gln Glu Lys Thr Tyr Ala Pro Gly Lys Val Arg Arg Arg Asn Thr Pro
    290                 295                 300
Thr Lys Phe Phe Pro Thr Phe Thr Cys
305                 310
```

<210> 23365
<211> 73
<212> PRT
<213> A.fumigatus

```
<400> 23365
Ala Leu Tyr Ser Arg Asp Phe Gln Thr Cys Val Ser Cys His Ser Thr
1               5                   10                  15
Thr Pro Ser Cys Ser Val Cys Glu Glu Gly Tyr Thr Cys Thr Met Ile
            20                  25                  30
Ser Pro Ser Cys Cys Gln Cys Ala Thr Tyr Gln Cys Val Gln Met Phe
        35                  40                  45
Thr Ser Arg Gln Lys Pro Pro Phe Pro Pro Pro Tyr Gly Ser Arg Tyr
    50                  55                  60
Gln Cys Trp Gly Leu Phe Ala Arg Arg
65                  70
```

<210> 23366
<211> 230
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23366
Ser Arg Leu Arg Pro Ala Pro Pro Pro Gly Gly Pro Leu Glu Tyr Val
1               5                   10                  15
```

```
Trp Thr Thr Phe Phe Leu Thr Xaa Ser Arg Arg Arg Pro His Glu Ala
            20                  25                  30
Arg Val Leu His Asn Leu Arg Ser Lys Pro Ala Asn Leu Ala Arg Ala
        35                  40                  45
Leu Ile Arg Ala Ala Phe Glu Val His His Val Thr Thr Tyr Gly Pro
    50                  55                  60
Asp Gly Thr Val Ile Ser Asp Leu Asn Thr Ala Ser Glu Ser Gly Phe
65                  70                  75                  80
Phe Ser Ala Leu His Ser Pro Ala Ser Ala Ser Ala Pro Glu Asn Arg
                85                  90                  95
Arg His Ile Leu Asn Cys Asp Ala Cys Arg Lys Glu Glu Phe Glu Arg
            100                 105                 110
Gln Thr Ala Arg Ser Ala Ala Ala Val Glu Thr Ser Lys Glu Ala Ala
        115                 120                 125
Ala Thr Ser Ser Thr Asp Val Arg Ala Gln Asn Phe Ser Asp Thr Gly
    130                 135                 140
Ser Pro Val Pro Arg Lys Thr Leu Ala Asp Ala Ser Ser Ser Thr Val
145                 150                 155                 160
Val Ser Asp Thr Arg Gln Val Leu Ser Pro Gly Ala Gln Glu Phe Asn
                165                 170                 175
Ala Arg Ile Ser Ile Gly Gly Met Thr Cys Ala Ser Cys Val Asn Thr
            180                 185                 190
Val Thr Lys Glu Val Gln Gln Leu Asp Phe Val Arg Glu Val Thr Val
        195                 200                 205
Asn Leu Leu Thr Asn Ser Gly Thr Val Gly Tyr Thr Gly Pro Gln Thr
    210                 215                 220
Asn His Trp Lys Asp Cys
225                 230
```

<210> 23367
<211> 212
<212> PRT
<213> A.fumigatus

<400> 23367

```
Arg Arg Arg His Ala His Gln Ile Leu Ser Leu Glu His Phe Leu His
1               5                   10                  15
Ile Asp Val Glu Leu Arg Val Gln Arg Phe Val Leu Asn His Ala Pro
            20                  25                  30
Trp Leu Lys Ala Val Leu Ala Arg Val Tyr Tyr Ser His Ile Val Leu
        35                  40                  45
Gly Val Ile Phe Leu Val Tyr Gly Tyr Thr Phe Phe Gln Arg Glu Lys
    50                  55                  60
Tyr Gln Gly Val Arg Arg Thr Leu Ala Leu Glu Asn Val Ile Ala Phe
65                  70                  75                  80
Ile Ile Leu Thr Leu Trp Arg Cys Ser Pro Pro Arg Leu Leu Pro Glu
                85                  90                  95
Glu Tyr Gly Phe Ile Asp Met Leu His Asp Asn Asp Ala Gly Ser Ala
            100                 105                 110
Trp Thr Gln Asn Lys Phe Gln Leu Thr Ile Ala Ala Met Pro Ser Leu
        115                 120                 125
His Phe Gly Asn Ala Phe Phe Leu Ala Leu Cys Leu Leu Arg Tyr Ser
    130                 135                 140
Ser His Trp Ile Leu Arg Val Val Ala Pro Leu Trp Pro Met Met Met
145                 150                 155                 160
Gly Val Thr Ile Ile Ala Thr Ala Asn His Phe Val Leu Asp Ala Leu
```

```
                165                 170                 175
Val Gly Val Cys Val Thr Leu Thr Ala Tyr Arg Phe Asn His Ala Val
            180                 185                 190
Leu Val Leu Leu Pro Val Glu Arg Val Leu Phe Lys Leu Leu Arg Ile
        195                 200                 205
Glu Lys Pro Gln
    210
```

<210> 23368
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23368
Leu Ile Ser Asn Gln Cys Ser Arg Leu Ser Ala Ile Phe Arg Ser Ala
1 5 10 15
Leu His Tyr Pro Asp Arg Asp Asn Phe Ala Met Gly Ala Thr Arg His
 20 25 30
Ile Ile Val Cys Gln Tyr Lys Tyr Trp Leu Cys Ser Ile Ser Ile Val
 35 40 45
Leu Phe Thr Gln Val Thr Ala Ala Gly Thr Cys Leu Leu Arg
 50 55 60

<210> 23369
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23369
Thr Leu Ile Lys Glu Asn Leu Trp Leu Thr Ile Tyr Val Tyr Ile Val
1 5 10 15
Ala Leu Phe Lys Val Asn Leu Ser Ser Gly Leu Lys Ile Lys Leu Trp
 20 25 30
Leu Ala Ser Lys Ser Val Phe Lys Tyr Thr Ala Ser Leu Leu Thr Glu
 35 40 45
Tyr Ala Gly Arg Arg Asp Leu Cys Phe Ile Tyr Thr Thr Val
 50 55 60

<210> 23370
<211> 137
<212> PRT
<213> A.fumigatus

<400> 23370
Leu Thr His Cys Ala Gly Pro Ser Gly Pro Val Val Lys Ile Ser Pro
1 5 10 15
Arg Tyr Asn Glu Pro Glu Tyr Leu Leu Tyr Ile Lys Ser Asn Lys Pro
 20 25 30
Tyr Asn Gln His Asp Gln Pro Asn Asp Lys Asp Pro Gly Tyr Gln Ala
 35 40 45
Phe Leu Asn His Pro Ala Phe Lys Arg Gly Asp Phe Pro Glu Ser Lys
 50 55 60
Asp Lys Pro Tyr Val Phe Ile Val Asn Val Arg Pro Ile Val Thr Thr
65 70 75 80
Tyr Asn Lys Tyr Arg Ala Thr Phe Pro Leu Gln Asn His Leu His Thr
 85 90 95
```
```

```
His Leu Ser Glu Tyr Leu His Thr Gln Glu Leu Ile Pro Val Thr Pro
            100                 105                 110
Thr Thr Asn Asn Leu Thr Thr Ile Tyr Ile Ile Lys Ser Thr His Lys
        115                 120                 125
Pro Thr Arg Leu Ile Arg Ile His Ser
    130                 135
```

<210> 23371
<211> 127
<212> PRT
<213> A.fumigatus

<400> 23371

```
Tyr Tyr Thr Thr Thr Lys Ile Arg Ile Asn Ser Ile Leu Glu Tyr Tyr
1               5                   10                  15
Lys Ile Cys Leu Asn Thr Gly Cys Phe Ser Thr Ile Arg Asn Thr Glu
            20                  25                  30
Phe Ile Lys Ala Leu Ser Ser Ile Thr Ile Thr Lys Leu Thr Asp Ser
        35                  40                  45
Ile Ile Val Leu Gly Ile Gly Ser Cys Tyr Gln Ser Asn His Ser Thr
    50                  55                  60
Met Leu Thr Leu Trp Phe Pro Arg Leu Ile Asn Asn Ser Gly Ser Ala
65                  70                  75                  80
Asn Ala Phe Ala Lys Ile Thr Ile Tyr Tyr Tyr Leu Val Asn Gly Leu
                85                  90                  95
Lys Pro Lys Leu Leu Ile Arg Thr Asn Val Ile Cys Ser Lys Gly Phe
            100                 105                 110
Ile Leu Asn Phe Lys His Ser Ile Thr Thr Ile Ser Ser Cys Ser
        115                 120                 125
```

<210> 23372
<211> 98
<212> PRT
<213> A.fumigatus

<400> 23372

```
Ala Lys Pro His Gln Ile Thr Tyr Thr Val Val Tyr Ile Lys Gln Arg
1               5                   10                  15
Ser Leu Leu Pro Ala Tyr Ser Val Ser Lys Leu Ala Val Tyr Leu Lys
            20                  25                  30
Thr Asp Leu Leu Ala Asn His Asn Phe Ile Phe Asn Pro Leu Asp Arg
        35                  40                  45
Leu Thr Leu Asn Arg Ala Thr Ile Tyr Thr Tyr Ile Val Asn His Lys
    50                  55                  60
Phe Ser Phe Ile Lys Val Tyr Asn Lys Thr Pro Thr Leu Ile Thr Val
65                  70                  75                  80
Thr His His Thr Tyr Ile Gly Thr Ile Ser Asp Thr Asn Phe Ile Thr
                85                  90                  95
Thr Tyr
```

<210> 23373
<211> 142
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30),(114),(139)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23373
Ser Leu Arg Trp Asn Leu Arg Cys Arg Phe Pro Leu Pro Asn Pro Tyr
1 5 10 15
Asp Pro Arg Ala Phe Pro Leu Ser Ile Arg Phe Ser Leu Xaa Thr Asn
20 25 30
Pro Pro Met Lys Arg Thr Arg Ala Arg Gln Asn Arg Ser Pro Leu Thr
35 40 45
Gly Ser Asp Gly Ser Glu Ser Asp Phe Val Gly Ser Ser Pro Asp Trp
50 55 60
Asp Glu Gln Arg Asp Ala Thr Tyr Glu Thr Asp Val Thr Glu Pro Asp
65 70 75 80
Val Thr Glu Pro Asp Asp Arg Pro Ser Pro Arg Lys Arg Leu Arg Ser
85 90 95
Asp Gln Lys Asp Pro Ala Leu Glu Pro Ser Leu Ser Asn Glu Ala Asp
100 105 110
Glu Xaa Tyr Asp Asp Pro Leu Asp Asp Thr Gly Ile Asp Pro Cys Glu
115 120 125
Ile Asp Val Leu Thr Ser Arg Leu Asp Gly Xaa Ala Met Arg
130 135 140

<210> 23374
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (52)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23374
Thr Phe Pro Met Gly Tyr Lys Asp Ile Ile Lys Lys Tyr Ile Thr His
1 5 10 15
His Val Asn Asn His Ser His Lys Glu Glu Cys Gly Lys Gln Pro Val
20 25 30
Cys Asn Lys Val Val Gln Trp Leu Gln Asp Ala Asn Ile Phe Pro Thr
35 40 45
Phe Met Ala Xaa Thr Thr Pro Arg Val Gly Ile Leu Lys Val Lys Asp
50 55 60
Lys Ser Leu Leu Lys Leu Thr Ile Leu Trp Ser Ile Val
65 70 75

<210> 23375
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23375
Ser Arg Asn Thr Ala Leu Leu His His Asp Thr Val Gln Lys Thr Phe
1 5 10 15
Glu Met Thr Ala Ala Glu Leu Asp Ala Met Ile Ser Cys Thr Tyr Leu

```
            20                  25                  30
Gly Thr Gly Ala Glu Met Ala Arg Tyr Met Lys His Ile Ser Leu Ala
        35                  40                  45
Phe Ser Asn Gly Pro Gln Met Val Asn Ser Leu Tyr Trp Lys Val Phe
    50                  55                  60
Gly Val
65
```

<210> 23376
<211> 173
<212> PRT
<213> A.fumigatus

<400> 23376

```
Val Glu Glu Tyr Pro Phe Thr Ser Leu Ser Gln Glu Glu Arg Lys Glu
1               5                   10                  15
Gln Ile Arg Thr Arg Tyr Met Gly Ala Ile Ile Asp Ile Ile Ala Val
            20                  25                  30
Ala Ile Phe Ile Glu Ile Val Gly Val Thr Tyr Gln Leu Thr Gly Leu
        35                  40                  45
Ile Ala Met Glu Arg Glu Leu Gly Met Ser Gln Leu Ile Asp Cys Met
    50                  55                  60
Leu Pro Asn Thr Ser His Trp Gln Ser Gln Ala Ala Arg Phe Ile Ala
65                  70                  75                  80
Ala His Leu Ala Leu Asp Ile Val Tyr Cys Pro Ala Trp Ile Ile Ser
                85                  90                  95
Gly Ala Ile Leu Lys Phe Gly Val Tyr Gly Lys Thr Ser Ala Gly Ile
            100                 105                 110
Val Ile Ile Tyr Asn Ile Leu Ala Gly Leu Ala Leu Ser Ser Phe Ser
        115                 120                 125
Ile Phe Gly Ala Ser Phe Phe Arg Lys Ala Gln Leu Ser Gly Ile Thr
    130                 135                 140
Val Val Ile Leu Cys Leu Ile Leu Gly Val Ile Ala Gln Leu Ala Pro
145                 150                 155                 160
Ala Ser Thr Asn Gly Ala Val Val Ile Leu Ser Leu Leu
                165                 170
```

<210> 23377
<211> 250
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (237)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23377

```
Arg Pro Arg Ala Asp Lys Thr Ala Arg Cys Val Ala Asp His Leu Leu
1               5                   10                  15
Gly Ile Gln Asp Lys Glu Ser Pro Ile Asn Thr Arg His Leu Ile His
            20                  25                  30
Arg Ala Gln Phe Gly Arg Asp Asp Met Ala Thr Asn Ala Asn Ala Pro
        35                  40                  45
Thr Lys Ser Phe Ile Ile Lys His Met Asn Thr Ser His Ala Asp Ser
    50                  55                  60
```

```
Leu Ser Leu Tyr Leu Arg Ala Tyr Cys Gly Val Ser Ala His Phe Ala
65                  70                  75                  80
His Pro Ala Ile Leu Gln Asp Ile Ser His Ser Asp Leu Leu Ile Thr
                85                  90                  95
Ala Lys Gly Thr Arg Tyr Ser Val Pro Ile Asn Pro Pro Met Thr Ser
            100                 105                 110
Leu Ala Glu Thr Arg Ala Arg Val Val Ala Met His Lys Asp Ser Leu
        115                 120                 125
Gln Arg Leu Gly Leu Ser Asp Ile Thr Ile Ala Glu Tyr Arg Pro Pro
    130                 135                 140
Gln Gly Leu Gln Val Val Ser Leu Val Leu Val Val Ala Thr Leu Val
145                 150                 155                 160
Val Phe Gly Arg Arg Ser Asn Phe Leu Pro Glu Ser Ala Phe Tyr Glu
                165                 170                 175
Thr Val Gly Leu Asp Arg Tyr Pro Val Phe Thr Arg Phe Cys Tyr Asp
            180                 185                 190
Val Ala Pro Val Val Val Gly Leu Leu Leu Gly Ser His Leu Val Glu
        195                 200                 205
Ala Thr Leu Ser Ala Val Lys Met Leu Arg Pro His Gly Val Arg Phe
    210                 215                 220
Ala Ser Gly Leu Trp Val Val Trp Ile Val Ser Asn Xaa Val Glu Arg
225                 230                 235                 240
Phe Pro Ala Trp Arg Arg Phe Asp Glu Met
                245                 250
```

<210> 23378
<211> 119
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23378

```
Tyr Phe Xaa Pro Arg Gly Glu Asp Asn Pro Thr Thr Arg Thr Met Ser
1               5                   10                  15
Leu Ser Asp Arg Glu Gln Leu Val Gln Leu Ser Arg Glu Phe Asp Ala
            20                  25                  30
Leu Ile Val Thr Asp Asp Val Tyr Asp Phe Leu Gln Trp Ser Val Asp
        35                  40                  45
Pro Asp Cys Pro Leu Ala Ala Pro Asp Glu Ala Arg Val Pro Arg Leu
    50                  55                  60
Val Asp Ile Asp Arg Tyr Met Asp Gly Gly Pro Gln Asp Glu Trp Gly
65                  70                  75                  80
Asn Val Ile Ser Asn Gly Ser Phe Ser Lys Leu Ile Gly Pro Gly Met
                85                  90                  95
Arg Thr Gly Trp Ala Glu Gly Thr Ala Lys Leu Ala Tyr Gly Leu Ser
            100                 105                 110
Gln Thr Tyr Phe Leu Val Asn
        115
```

<210> 23379
<211> 152
<212> PRT

<213> A.fumigatus

<400> 23379
Ser Val Leu Asn Asn Ala Cys Trp Ser Cys Gly Glu Ile Ala Val Thr
1 5 10 15
Glu Lys Ala Asn Leu Ala Pro Tyr Ala Asp Lys Leu Tyr His Gly Leu
20 25 30
Ser Thr Ile Ile Asn Asn Glu Glu Ile Ile Asp Ser Val Asn Glu Asn
35 40 45
Ala Ala Met Ala Leu Gly Arg Leu Gly Phe Cys Cys Ser Asp Gln Leu
50 55 60
Ala Ser Arg Leu Ala Glu Tyr Ala Gly Ser Phe Leu Lys Ser Met Asn
65 70 75 80
Lys Ile Glu Phe Thr Arg Glu Lys Ala Ser Ala Phe Leu Gly Phe Asn
85 90 95
His Val Val Met Lys Asn Pro Gln Ala Leu Glu Ser Cys Leu Gly Glu
100 105 110
Tyr Phe Gln Ala Ile Ala Thr Phe Pro Thr Lys Ser Leu His Gln Glu
115 120 125
Asp Tyr Arg Asp Ile Gln Ser Ser Phe Gln Gln Val Arg Cys Ser Phe
130 135 140
Ile Pro Leu Phe Asp Gly Ile Cys
145 150

<210> 23380
<211> 81
<212> PRT
<213> A.fumigatus

<400> 23380
Asn Val Val Leu Asp Ser Asn Tyr Arg Val Leu Asp Lys Lys Glu Pro
1 5 10 15
Gly Cys Pro Arg Ser Gly Ser Val Ile Ile Tyr Leu Gly Leu Gly Val
20 25 30
Pro Pro Leu His Ser Pro Gln Phe Pro Pro Pro His Leu Asp Asn Lys
35 40 45
Leu Val Leu Pro Leu Asn Leu His Leu Pro Leu Pro Arg Arg Ala Ser
50 55 60
Pro Val Ser Phe Cys Ser Ser Ala Ser Phe Tyr Phe Val Phe Thr Thr
65 70 75 80
Gly

<210> 23381
<211> 71
<212> PRT
<213> A.fumigatus

<400> 23381
Leu Leu Pro Tyr Asp Tyr Ser His Pro Tyr Tyr Met Ala Leu Asp Tyr
1 5 10 15
Ser Phe Phe Pro Leu Pro Met Asp Glu Ser Val Asp Tyr Met Pro Leu
20 25 30
Leu Phe Leu Ser Leu Ser Tyr Leu Ile Arg Glu Trp Ser Ile Gln Met
35 40 45
Glu Gln Gln Lys Asn Phe Ser Lys Phe Ile Ser Gly Pro Ser Val Lys

50 55 60
Glu Gly Thr Ser Thr Asp Ile
65 70

<210> 23382
<211> 284
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (249)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23382
Ile Leu Ser Ser Ser Pro Arg Glu Asp Thr Leu Arg Ala Val Ser Ser
1 5 10 15
Gly Thr Cys Asn Ala Ala Glu Ala Gln Arg Leu Ala Lys Gln His Ala
20 25 30
Glu Phe Gly Pro Leu Gly His Pro Ser His Leu Tyr Val Ser Lys His
35 40 45
Ser Gly Gly Glu Ile Ala Asp Pro Val Leu Asp Glu Pro Pro Tyr Phe
50 55 60
Thr Ala Phe Thr Thr Tyr Ile Ser Phe Leu Ile Leu Ile Phe Leu Gly
65 70 75 80
His Phe His Asp Phe Cys Asp Lys Tyr Phe Arg Ser His Thr Tyr Lys
85 90 95
His Leu Arg Pro Gln Asn Gly Tyr Ala Ser Leu Tyr Ser Asp Phe Glu
100 105 110
Ser Phe Tyr Thr Arg Arg Met Lys Arg Arg Ile Asn Asp Cys Phe Glu
115 120 125
Arg Pro Thr Thr Gly Val Pro Gly Arg Tyr Ile Thr Leu Leu Asp Gln
130 135 140
Gln Ser Asn Asp Asn Leu His Phe Arg Leu Thr Gly Thr Thr Thr Asp
145 150 155 160
Thr Leu Asn Leu Ser Ser Tyr Asn Tyr Leu Gly Phe Ala Gln Ser Glu
165 170 175
Gly Pro Cys Ser Asp Leu Ala Glu Glu Thr Ile Arg Gln Asn Gly Ile
180 185 190
Thr Met Ala Gly Ser Val Ala Glu Pro Gly Thr Pro Gln Leu His Ala
195 200 205
Glu Val Glu Gln Leu Val Ala Arg Phe Val Gly Lys Glu Asp Ser Ile
210 215 220
Val Phe Ser Met Gly Phe Val Asn His Ala Thr Ile Phe Pro Ala Leu
225 230 235 240
Met Glu Lys Gly Cys Leu Ile Leu Xaa Asp Glu Phe Asn His Ala Ser
245 250 255
Ile Arg Phe Gly Ala Arg Leu Ser Arg Thr Ala Ile Gln Val Phe Ser
260 265 270
His Asn Asn Met Ala Asp Leu Glu Met Arg Leu Pro
275 280

<210> 23383
<211> 166
<212> PRT
<213> A.fumigatus

<400> 23383
Phe Gly Val Ala Asp Val Met Thr Pro Thr Arg Thr Lys Glu Pro Asp
1 5 10 15
Gln Ser Tyr Lys Pro Met Asn Phe Pro Ala Gly Tyr Ser Ser His Trp
20 25 30
Pro Ser Met Val Ile Glu Thr Ala Phe Ser Glu Ser Gln Gly Thr Pro
35 40 45
Ala Asn Asp Ala Arg Trp Trp Leu Asn Ala Ser Gly Gly Glu Leu Lys
50 55 60
Ile Ile Ile Thr Ile Ala Val Gln Lys Lys Arg Glu Ala Ile Thr Ile
65 70 75 80
Asp Lys Trp Glu Ala Thr Ser Arg Pro Thr Arg Gly Asp Pro Gly Lys
85 90 95
Thr Val Pro Asp Val Val Gln Lys Val Thr Ile Thr Arg Glu Gly Gly
100 105 110
Asp Ala Pro Val His Val Thr Gly Ala Pro Leu Ile Ile Arg Phe Glu
115 120 125
Lys Leu Phe Leu Arg Pro Ala Glu Glu Glu Lys Gly Glu Gly Asp Val
130 135 140
Leu Phe Thr His Asp Asp Leu Ala Glu Ile Ala Asp Lys Val Trp Ser
145 150 155 160
Val Leu Asn Thr Gly Asn
165

<210> 23384
<211> 186
<212> PRT
<213> A.fumigatus

<400> 23384
Ser Ser Ala Ala Pro Gly Pro Gly Asp Asp Tyr Ala Tyr Thr Val Asp
1 5 10 15
Thr Leu Leu Asp Glu Ile Ile Asp Thr Leu Asp Gln Leu Asn Ile Ser
20 25 30
Lys Val His Phe Val Gly Glu Ser Thr Ser Asp Met Leu Asp Glu Ala
35 40 45
Leu Ala Ala Gln Phe Pro Ser Arg Leu Arg Ser Leu Thr Thr Ile Ser
50 55 60
Ser Pro Thr Leu Leu Pro Pro Ala Ala Leu Arg Leu Phe Ala Phe Gly
65 70 75 80
Tyr Pro Ser Arg Pro Glu Ala Cys Arg Gln Leu Gly Ser Arg Gly Trp
85 90 95
Gly Glu Arg Leu Ala Arg Val Pro Gly Thr Leu Ser Ala Ser Asp Pro
100 105 110
Ala Tyr Glu Ala Trp Trp Leu Ser Gln Ile Ala Val Ser Ser Ser Glu
115 120 125
Gly Leu Ala Gly Tyr Ala Gly Phe Leu Ser Thr Phe Asp Ala Arg Ala
130 135 140
Tyr Leu Leu Arg Val Ser Val Pro Met Leu Ile Leu Ala Pro Ala Lys
145 150 155 160
Ser Ala Ala Thr Thr Leu Glu Glu Gln Leu Asp Leu Ala Arg Gln Val
165 170 175
Lys Gly Ser Lys Leu Phe Ser Pro Thr Gly
180 185

<210> 23385
<211> 190
<212> PRT
<213> A.fumigatus

<400> 23385
Pro Leu Gln Leu Gln Pro Arg Leu Val Ile Ile Leu Ser Ala His Tyr
1 5 10 15
Gly Asp Gln Ala Ser Ile Thr Gly Thr Leu Ser Asp Glu Pro Leu Ser
20 25 30
Val His Phe Ile Pro Ser His Ser Phe Leu Ser Phe Ala Ala Tyr Asn
35 40 45
Lys Thr Phe Lys Met His Leu Ile Leu His Pro Lys Thr Leu Ile Leu
50 55 60
Leu Leu Ala Val Leu Val Thr Ile Val Cys Ile Ser Ile Arg Arg Phe
65 70 75 80
Leu Ala Arg Arg Gln Phe Ala Arg Gln His Gly Cys Gln Pro Val Ala
85 90 95
Arg Ser Leu Asn Lys Asp Pro Phe Leu Gly Leu Asp Thr Ile Pro Glu
100 105 110
Thr Leu Arg Ala Ala Ser Gln His Arg Ile Leu Glu Arg Ser Val Glu
115 120 125
Leu Phe Arg Leu Tyr Gly Asn Thr Phe Thr Val Lys Glu Leu His Lys
130 135 140
Tyr Ala Ile Leu Thr Ile Glu Pro Glu Asn Ile Lys Thr Ile Leu Ser
145 150 155 160
Leu Asn Phe Lys Asp Tyr Gly Leu Ser His Arg Leu Gln Pro Phe Lys
165 170 175
Pro Leu Leu Gly Glu Ser Ile Phe Asp Thr Asp Gly Ala His
180 185 190

<210> 23386
<211> 84
<212> PRT
<213> A.fumigatus

<400> 23386
Ala Ser Ser Arg Ala Leu Ile Arg Pro Ser Phe Thr Arg Gly Gln Val
1 5 10 15
Thr Asp Leu Thr Ala Leu Glu Asp Leu Met His Asp Leu Phe Ala Leu
20 25 30
Leu Pro Gly Asp Gly Lys Asn Val Leu Glu Leu Arg Glu Leu Phe Phe
35 40 45
Arg Tyr Thr Ile Glu Ser Ala Thr Asp Phe Leu Phe Gly His Ser Leu
50 55 60
Arg Asp Leu Asp Glu Tyr Ser Leu Arg Thr Gly Val Ser Ala Leu Leu
65 70 75 80
Phe Ile His Pro

<210> 23387
<211> 172
<212> PRT
<213> A.fumigatus

<400> 23387

```
Arg Leu Leu Arg Ala Pro Thr Ser Gly Gly Gln Tyr His Trp Ile Ser
1               5                  10                  15
Met Leu Ala Pro Arg Trp Thr Val Lys Phe Leu Ser Tyr Met Cys Gly
            20                  25                  30
Trp Leu Thr Val Ile Gly Trp Gln Ala Thr Phe Ala Thr Ala Cys Tyr
        35                  40                  45
Leu Cys Gly Thr Met Val Gln Gly Val Ala Val Leu Thr Arg Pro Asn
    50                  55                  60
Tyr Gln Pro Gln Ser Trp His Pro Thr Phe Tyr Phe Trp Ala Ile Val
65                  70                  75                  80
Ala Phe Ala Val Ser Ile Asn Val Val Gly Arg Asn Val Leu Pro Lys
                85                  90                  95
Phe Glu Gly Leu Ile Leu Val Val His Ile Leu Gly Phe Phe Ala Ile
            100                 105                 110
Leu Ile Pro Leu Val Ser Leu Ala Asp Ile Gly Ser Ala Lys Asp Val
        115                 120                 125
Phe Thr Glu Phe Val Asn Gln Gly Gly Trp Pro Thr Gln Gly Leu Ser
    130                 135                 140
Phe Leu Cys Trp Leu Asp Arg Leu Cys Val Cys Leu Cys Gly Arg Arg
145                 150                 155                 160
Cys Arg Ser Ala Arg Lys Ser Thr Ile Ala Leu Ser
                165                 170
```

<210> 23388
<211> 63
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23388

```
Gln Ser Gln His Gln Lys Ser Lys Asp Gly Lys Pro Leu Ala Thr Gly
1               5                  10                  15
Asp Trp Leu Ala Thr Leu Asp Asn Pro Xaa Ser Gly Asn Phe Glu Ser
            20                  25                  30
Gly Lys Arg Ile Leu Asn Ser Pro His Cys Trp Pro Phe Arg Met Gly
        35                  40                  45
Phe Ser Ser Asn Leu Ala Ala Asn Ser Gly Ile Cys Pro Gln Gly
    50                  55                  60
```

<210> 23389
<211> 85
<212> PRT
<213> A.fumigatus

<400> 23389

```
Val His Arg Val Arg Ser Ser Thr Arg Tyr Ser Val Leu Cys Ala Ser
1               5                  10                  15
Leu Ala Ala Pro Leu Ile His Ile Thr Leu His Leu Gly Met His Leu
            20                  25                  30
Lys Leu Gly Asn Tyr Gln Pro Met Cys Ala Phe Ser Asn Leu Leu Val
        35                  40                  45
Val Leu Asn Leu Arg Ser Thr Val Thr Thr Gly Ile Cys Pro Ile Arg
```

```
    50                  55                  60
Phe Lys Asp Ser Leu Ser Thr Glu Tyr Pro Ser Val Trp Cys Thr Ala
65                  70                  75                  80
Arg Leu Leu Gly Asp
                85
```

<210> 23390
<211> 150
<212> PRT
<213> A.fumigatus

<400> 23390

```
Ser Ser Phe Leu Phe Thr Thr Ser Ser Ser Ser Ser Leu Ser Phe Pro
1               5                  10                  15
Pro Asp Leu Arg Thr Ala His Thr Phe Lys Met Arg Val Ser Thr Leu
            20                  25                  30
Leu Pro Leu Ala Leu Ala Ala Gly Thr Ala Ala Ala Ser Lys Asn Gly
        35                  40                  45
Thr Leu Gly Phe Ala Leu Gly Asn Lys Asn Glu Gly Gly Lys Cys Lys
    50                  55                  60
Val Gln Ser Asp Tyr Glu Thr Asp Phe Asp Thr Leu Lys Glu Val Thr
65                  70                  75                  80
Ser Leu Val Arg Ile Tyr Ser Ala Ser Asp Cys Asp Thr Ala Lys His
                85                  90                  95
Ile Ile Pro Ala Ala Lys Ala Lys Asn Phe Lys Val Val Leu Gly Val
            100                 105                 110
Trp Tyr Gly Thr Arg His Ile Thr Ser Ala Leu Arg Gln Ala Ala Arg
        115                 120                 125
Leu Leu Thr Leu Pro Arg Leu Val Gly Pro Ile Thr Thr Asn Leu Ser
    130                 135                 140
Pro Thr Thr Ser Thr Pro
145                 150
```

<210> 23391
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23391

```
Leu Ser Ile Ile Pro Gln Gln Ser Gln Gly Cys Asp Gly Arg Leu Thr
1               5                  10                  15
Cys Asn Leu Gln Pro Thr Leu Met Glu Val Leu Lys Gln Leu His Val
            20                  25                  30
Ser Val Ser Gln Asn Phe Asp Arg Leu Phe Asp Asp Ala Tyr Lys Ser
        35                  40                  45
Leu His Thr Glu Leu Thr Arg Arg Asp Glu Tyr Val Lys Lys Leu Asp
    50                  55                  60
Val Glu Leu Ala Arg Thr Asp Arg Asn Asn Ala Ser Ala Glu Val Leu
65                  70                  75                  80
Lys Leu Asn Arg Glu Ile Ser Leu
                85
```

<210> 23392
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23392
Lys Trp Gln Trp Pro Arg Phe Pro Thr Gly Ser Thr Tyr Ile Pro Ile
1 5 10 15
Asp Gln His Pro Gln Glu Pro Glu Gln Asn Ala Pro Ala Pro Phe Pro
20 25 30
Thr Ala Ala Ser Ser Lys Thr Arg Lys His Ser Gly Ile His Gly Ile
35 40 45
Asn Thr Thr Asn His Gly Gln Leu Trp Phe Thr Leu Pro Gln Gly Lys
50 55 60
Tyr Pro Pro Thr Gly Thr Gln Pro Glu Ser Phe Trp Lys Leu Asp Ser
65 70 75 80

<210> 23393
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23393
Ser Gly Glu Glu Glu Ser Val Cys Ala Ser Ser Asp Thr Thr Cys Ser
1 5 10 15
Ala Asn Thr Asp Asn Val Arg Tyr Val Thr Asp Ile Glu Tyr Phe Lys
20 25 30
Glu Thr Glu Val Arg Asn Asp Pro Val Ala Ala Lys Asn Asn Ala Ala
35 40 45
His Trp Val Ile Val Val Met Asp Ala Leu Thr Ala Gly Val Glu Asp
50 55 60
Ile Arg Gly Leu Ser Pro Lys Asp Glu Tyr Ile Asn Leu Glu Asp Phe
65 70 75 80
Glu His Phe Met Ser Asp Ser Asp
85

<210> 23394
<211> 303
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (286)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23394
Asp Asp Phe Phe Phe Pro Ala Cys Arg Gln Ile Met Arg Ile Gly Ile
1 5 10 15
Ile His Val Gly Ala Pro Ala Gly Gly Met Asn Gln Ala Thr Arg Ala
20 25 30
Ala Val Gly Tyr Cys Leu Thr Arg Gly His Thr Pro Leu Ala Ile His
35 40 45
Asn Gly Phe Pro Gly Leu Cys Arg His His Asp Asp Gln Pro Val Gly
50 55 60
Ser Val Arg Glu Val Lys Trp Leu Glu Ser Asp Ala Trp Val Asn Glu
65 70 75 80
Gly Gly Ser Asp Ile Gly Thr Asn Arg Ser Leu Pro Ser Glu Asp Phe
85 90 95
Glu Thr Thr Ala Met Cys Phe Glu Lys Tyr Lys Phe Asp Ala Leu Phe

```
            100                 105                 110
Val Val Gly Gly Phe Glu Ala Phe Thr Ala Val Ser Gln Leu Arg Gln
        115                 120                 125
Ala Arg Asp Lys Tyr Pro Ala Phe Lys Ile Pro Met Val Val Leu Pro
    130                 135                 140
Ala Thr Ile Ser Asn Asn Val Pro Gly Thr Glu Tyr Ser Leu Gly Ser
145                 150                 155                 160
Asp Thr Cys Leu Asn Thr Leu Ile Asp Phe Cys Asp Ala Ile Arg Gln
                165                 170                 175
Ser Ala Ser Ser Ser Arg Arg Arg Val Phe Val Ile Glu Thr Gln Gly
            180                 185                 190
Gly Lys Ser Gly Tyr Ile Ala Thr Thr Ala Gly Leu Ala Val Gly Ala
        195                 200                 205
Thr Ala Val Tyr Ile Pro Glu Glu Gly Ile Asp Ile Lys Met Leu Ser
    210                 215                 220
Asn Asp Ile Asp Phe Leu Arg Glu Asn Phe Ala Arg Asp Lys Gly Ala
225                 230                 235                 240
Asn Arg Ala Gly Lys Leu Ile Leu Arg Asn Glu Cys Ala Ser Ser Thr
                245                 250                 255
Tyr Thr Thr Gln Val Ile Ala Asp Ile Phe Lys Glu Glu Ala Lys Gly
            260                 265                 270
Arg Phe Glu Ser Arg Ser Ala Val Pro Gly His Phe Gln Xaa Gly Gly
        275                 280                 285
Lys Pro Ser Pro Met Asp Arg Ile Arg Ala Leu Arg Met Ala Val
    290                 295                 300

<210> 23395
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23395
Trp Met Ile Gly Asn Tyr Arg His Arg Glu Val Arg Gly Ala Ile Phe
1               5                   10                  15
Arg Ser Arg Val His Ile Arg Ile Asn Gly Val His Ser Asn Gly Phe
            20                  25                  30
Leu Leu Leu Lys Ala Ser Ser Leu Glu Ile Thr Ala Leu His Leu Phe
        35                  40                  45
Thr Trp Phe Leu Tyr Phe Ser His Cys Pro Pro Phe Leu Val Phe Thr
    50                  55                  60
Pro Thr Ser Val Asn
65

<210> 23396
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23396
Ser Ser Tyr Thr Leu Ser Lys Val Thr Ile Pro Pro His Phe Phe Tyr
1               5                   10                  15
Ala Phe Thr Pro Phe Leu Phe Arg Leu Pro Pro Pro Phe Gln Lys Pro
            20                  25                  30
Gln Thr Pro Pro Ser Lys Asn Pro Phe Phe Asn Phe Ala Gln Gln Leu
        35                  40                  45
Val Ser Leu Pro Asn Ala Ser Asn Ser Val Ser Leu Lys Pro Leu Pro
```

50 55 60

<210> 23397
<211> 228
<212> PRT
<213> A.fumigatus

<400> 23397
Phe Pro Ile Ile His Gln Ser Arg Ser His Ser Leu Pro Arg Leu Leu
1 5 10 15
Val Gln Leu Asp Phe Lys Met Ile Pro Ala Ala Thr Ala Lys Tyr Asp
20 25 30
Trp Ile Leu Ala Leu Thr Ser Ile Thr Phe Val Phe Ser Ala Phe Gly
35 40 45
Asn Gly Ala Asn Asp Val Ala Asn Ser Tyr Ala Thr Ser Val Ala Ala
50 55 60
Arg Thr Leu Ser Met Trp Gln Val Gly Ile Leu Ala Val Cys Thr Glu
65 70 75 80
Phe Ile Gly Ala Val Ala Leu Gly Ala Arg Val Thr Asp Thr Ile Lys
85 90 95
Ser Gly Ile Ile Ser Ile Asp Arg Phe Glu Asn Lys Pro Gly Pro Leu
100 105 110
Met Leu Ala Met Gly Cys Ala Glu Met Gly Asn Ala Ala Trp Leu Met
115 120 125
Leu Ala Thr Gly Met Gly Trp Pro Val Ser Thr Thr Gln Thr Ile Val
130 135 140
Gly Ala Leu Val Gly Val Gly Phe Ala Ala Gln Ala Pro Ile His Trp
145 150 155 160
Glu Trp Thr Lys Gly Ser Val Ser Gln Ile Ala Ala Ser Trp Gly Ile
165 170 175
Ala Pro Ala Ile Ala Ala Gly Phe Ser Ala Leu Met Phe Gly Ile Leu
180 185 190
Lys Tyr Ser Val Leu Glu Arg Lys Asp Pro Phe Lys Trp Ala Met Arg
195 200 205
Leu Ile Pro Gly Phe His His Gly Ala Arg Arg Thr Ala Asn Gly Leu
210 215 220
Val Lys Arg Ala
225

<210> 23398
<211> 289
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (203)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23398
Tyr Leu Leu Ile Ser Asn Lys Pro Thr Ala His Ser Leu Thr Pro Pro
1 5 10 15
Gln Ser His Lys Pro Gln Gln Lys Thr Pro Ser Ser Ser Tyr Thr Thr
20 25 30
Pro Thr Ser Thr Lys Ala Lys Arg Gly Cys Glu Arg Asn Arg Met Ala
35 40 45

```
Pro Pro Thr Glu Leu His His Leu Tyr Thr Thr Met Ala Ala Phe Val
    50                  55                  60
Thr Ser Cys Met Ser Ala His Asp Pro Ser His Asn Pro Ala His Val
65                  70                  75                  80
His Arg Val Val Thr Leu Ala Arg Thr Ile Leu Glu Lys Glu Gln Leu
                85                  90                  95
Leu His Pro Asp Ile Thr Tyr Asp Glu Asp Val Val Lys Leu Ala Ala
            100                 105                 110
Leu Leu His Asp Ile Gly Asp Arg Lys Tyr Leu Thr Gln Val Ala Ala
        115                 120                 125
Ala Thr Ser Ala Ala Gly Glu Gln Gln Gln Gln Gln Ala Ala Val Asp
    130                 135                 140
Pro Gly Arg Met Val Glu Gln Ala Leu Leu Ala His Gly Ala Asp Val
145                 150                 155                 160
Ala Leu Ala Ala Lys Val Gln Thr Ile Val Thr His Val Ser Tyr Ser
                165                 170                 175
Lys Glu Val Lys Asp Pro Ala Thr Val Arg Arg Leu Ile Asp Glu Glu
            180                 185                 190
Gly Tyr Val Glu Leu Ala Val Val Gln Asp Xaa Asp Arg Leu Asp Ala
        195                 200                 205
Leu Gly Ala Met Gly Ile Gly Arg Cys Phe Thr Phe Leu Gly Ala Gln
    210                 215                 220
Gly Arg Lys Tyr Leu Ser Pro Glu Glu Pro Trp Asp Met Asn Asn Ala
225                 230                 235                 240
Ile Ala His Phe Gln Asp Lys Leu Glu Arg Leu Glu Gly Met Met Lys
                245                 250                 255
Thr Gln Thr Gly Arg Glu Met Ala Arg Val Arg Thr Gln Arg Leu Ile
            260                 265                 270
Glu Phe Arg Lys Trp Trp Glu Glu Glu Met Glu Glu Ala Thr His Ile
        275                 280                 285
Pro
```

<210> 23399
<211> 139
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (39)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23399
Ala Ile Ala Leu Phe Ile Ser His Gly Ser Ser Gly Leu Arg Tyr Phe
1               5                   10                  15
Leu Pro Cys Ala Pro Arg Asn Val Lys His Arg Pro Ile Pro Ile Ala
            20                  25                  30
Pro Asn Ala Ser Asn Arg Xaa Ala Ser Cys Thr Thr Ala Ser Ser Thr
        35                  40                  45
Tyr Pro Ser Ser Ser Ile Asn Leu Arg Thr Val Ala Gly Ser Leu Thr
    50                  55                  60
Ser Phe Glu Tyr Asp Thr Cys Val Thr Met Val Cys Thr Phe Ala Ala
65                  70                  75                  80
Ser Ala Thr Ser Ala Pro Cys Ala Asn Ser Ala Cys Ser Thr Ile Arg
                85                  90                  95
```

```
Pro Gly Ser Thr Ala Ala Cys Cys Cys Cys Cys Ser Pro Ala Ala Asp
            100                 105                 110
Val Ala Ala Ala Thr Cys Val Arg Tyr Phe Leu Ser Pro Met Ser Trp
        115                 120                 125
Ser Lys Ala Ala Ser Leu Thr Thr Ser Ser Ser
    130                 135
```

<210> 23400
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23400

```
Pro Thr Thr Glu Glu Gly Ile Arg Thr Asp Leu Ser Ala Val Val Arg
1               5                   10                  15
Ser Ala Ala Phe Phe Ala Met Ser Tyr Val Lys Lys Asp Glu Asp Ala
            20                  25                  30
Asp Gln Val Met Ile Lys Leu Asp Arg Thr Ser Val Phe Gln Asp Gly
        35                  40                  45
Lys Gly Ile Leu Ser Ser Pro Glu Glu Ala Thr Lys Leu Pro Ser Asn
    50                  55                  60
```

<210> 23401
<211> 97
<212> PRT
<213> A.fumigatus

<400> 23401

```
Thr Asp Gln Asn Ser Glu Glu Ile Cys Asn Ala Ser Thr Ala Pro Trp
1               5                   10                  15
Ser Pro Trp Ser Cys Val Ala Pro Ile Leu Val Ser Asp Leu Pro Thr
            20                  25                  30
Val Arg Ser Leu Glu Phe Gln Glu Gly Leu Ile Leu Tyr Tyr Ser Val
        35                  40                  45
Val Ser Tyr Tyr Tyr Thr Ala Asp Glu Gly Lys Pro Val Trp Thr Val
    50                  55                  60
Pro Leu His Ala Thr Val Ala Phe Thr Gly Asn Asn Ser Ser Glu Ile
65                  70                  75                  80
Leu Arg Asp Asn Asp Ala Asn Lys Glu Ser Ile Ile Leu Glu Val Tyr
                85                  90                  95
Leu
```

<210> 23402
<211> 96
<212> PRT
<213> A.fumigatus

<400> 23402

```
Val Leu Val Ile His Glu Ser Cys Thr Gly Ile Ser Thr Thr Ser Gly
1               5                   10                  15
Leu Thr Ser Ile Leu Ser Phe Ser Arg Leu Ile Ala Leu Phe Glu Leu
            20                  25                  30
Ala Gly Met Pro Met Phe Asp Cys Thr Gln Ile Val Ala Cys Ile Pro
        35                  40                  45
Arg Ser Gln Glu Val Thr Asp Ser Glu Ile Val Arg Asn Leu Gly Trp
```

```
    50                  55                  60
Cys Gly Phe Asn Leu Thr Thr Leu Lys Pro Trp Val Ser Glu Gln Cys
65                  70                  75                  80
Val Glu His Cys Leu Ser Thr Lys Trp Leu Phe Leu Cys Ala Glu Val
                85                  90                  95

<210> 23403
<211> 392
<212> PRT
<213> A.fumigatus

<400> 23403
Glu Asp Met Arg Pro Gly Arg Arg Arg Trp Thr Pro Trp Val Thr Pro
1               5                  10                  15
Lys Ala Ala Ala Ser Ser Asn Val Gly His Ser Val Cys Arg Val Arg
            20                  25                  30
Gly Lys Glu Leu Phe Met Leu Ala Thr Glu Cys Ala Arg Val Leu Gly
        35                  40                  45
Tyr Arg Asp Ser Tyr Leu Leu Phe Asn Lys Asn Arg Ser Leu His Lys
    50                  55                  60
Ile Ile Ala Ser Gln Ile Glu Lys Asp Asp Leu Ile Gln Gln Asp Val
65                  70                  75                  80
Leu Pro Tyr Ser Tyr Arg Ser Arg Gln Ile Ala Ile Val Ser Ala Lys
                85                  90                  95
Ser Ile Phe Arg Gln Phe Gly Ser Arg Val Ile Val Asn Gly Arg Arg
            100                 105                 110
Val Arg Asp Asp Tyr Trp Glu Ser Lys Ala Arg Lys Gln Gly Phe Thr
        115                 120                 125
Glu Asp Asp Leu Ala Gly Glu Lys Arg Pro Gly Ala Gly Lys Ala Arg
    130                 135                 140
Asp Ala Ala Ala Ala Glu Ala Ala Asn Ala Ala Asn Leu Leu Pro Thr
145                 150                 155                 160
Leu Thr His Gly Asp Val Ile Tyr Ser Asn Ala Leu Glu Thr Met Pro
                165                 170                 175
His Gly Leu Pro Val Gly Gly Pro Ala Ser Ser Ser Leu Ala Ser Leu
            180                 185                 190
Pro Met Ile His Met Ala Thr Thr Thr Asp Asp Pro Arg Leu Arg Glu
        195                 200                 205
Tyr Asn Ser Met Pro Arg Ala Arg Gln Glu Ile Thr Gly Gln Pro Tyr
    210                 215                 220
Gln Asp Arg Leu Gln Pro Ser Ser Ala Ala Glu Ile Leu Asn His Ala
225                 230                 235                 240
Ser His Thr Ala Asp Phe Asn Lys Ile Leu Ser Asn Gln Arg Ser Phe
                245                 250                 255
Arg Gln Lys Gly Leu Glu Glu Phe Tyr Ser Ser Gln Arg Glu Val Pro
            260                 265                 270
Glu Thr Ala Asp Leu Ala Gln Pro Ala Gln Leu Asp Ala Thr Val Ser
        275                 280                 285
Val Ser Gln Pro Leu Gln Ser Pro Gln Met Ala Ser Thr Gly Leu Ile
    290                 295                 300
Ser Ser Thr Gln Pro Gln Ala Ile Leu Pro Asn Gln Ala Pro Met Met
305                 310                 315                 320
Ala Gly Gln Thr Ala Phe Gln Ala Pro Thr Gly Pro Gln Gln Gly Ala
                325                 330                 335
Ile Ala Gln Ser Pro Ile Gln Pro Val Pro Ala Val Arg Ala Asn Leu
            340                 345                 350
```

```
Met His Gln Arg Ser Asn Pro Ser Met Phe Trp Gly His Ala Gly Ser
        355                 360                 365
Arg Pro Gly Pro Tyr Gly Tyr Pro Ala Ala Thr Ala Thr Lys Trp Trp
    370                 375                 380
Gly Gln Ser Thr Phe Arg Arg Leu
385                 390
```

<210> 23404
<211> 165
<212> PRT
<213> A.fumigatus

<400> 23404

```
Ala Asn Ile Leu Thr Ser Val Phe Leu Leu Gly Leu Tyr Tyr Lys Leu
1               5                   10                  15
His Gly Cys Tyr Arg Pro Thr Thr Met Lys Lys Ser Ile Ile Lys Arg
            20                  25                  30
Arg Lys Arg Val Val Pro Ala Leu Arg Asp Gln Ser Pro Ser Gly Ala
        35                  40                  45
Thr Tyr Ser Ser Asn Gly Ser Ser Ala Ser Pro Glu Ala Ser Pro Ala
    50                  55                  60
Val Leu Ala His Ser His Asp Asp His Tyr Arg Tyr Leu Ser Ser Asp
65                  70                  75                  80
Pro Thr Leu Gln Ala Asn His Gln Arg His Tyr Ala Val Ala Pro Pro
                85                  90                  95
Pro Val Asp Phe Thr His Phe Ser Ala Thr Gly Ser Leu Ser Leu Pro
            100                 105                 110
His His Pro Pro Pro Pro Ile Leu Leu Glu Pro Glu Arg Leu Ser Ala
        115                 120                 125
Pro Ser His Ser Pro Ile Pro Gln Phe Gly Arg Arg Ser Ile Ser Pro
    130                 135                 140
Ser Thr Ser Gly Ser Ala Lys Lys Arg Thr Leu Ala Glu Thr Thr Ser
145                 150                 155                 160
Ser Thr Asp Thr Ala
                165
```

<210> 23405
<211> 152
<212> PRT
<213> A.fumigatus

<400> 23405

```
Glu Arg Val Ser Phe Leu Pro Arg Arg Cys Lys Thr Gly Gly Gln Gln
1               5                   10                  15
Ser Gly Asp Gly Phe Ala Gln Ser Glu Ser Ala Ser Gln Gly His Cys
            20                  25                  30
Gln Ser Asn Ser Gly Gly Gly Ser Cys Pro Gly Gly Gly Asn Cys Asn
        35                  40                  45
Gly Thr Gly Gly Ala Glu Gly Cys Asp Gly Cys Pro Ala Tyr Asn Asn
    50                  55                  60
Arg Val Tyr Lys Ser Ala Ala Arg Gly Thr Val Pro Ile His Ser Trp
65                  70                  75                  80
Arg Ala Thr Asn Ser Gly Ser Asp Arg Pro Leu Ala Glu Thr Glu Asn
                85                  90                  95
Asp Ala Gly Lys Asn Gly Ala Thr Val Glu Gly Gly Asn Met Leu Val
            100                 105                 110
```

```
Ser Cys Gln Asn Cys Gly Thr Thr Val Thr Pro Leu Trp Arg Arg Asp
        115                 120                 125
Glu Asn Gly His Pro Ile Cys Asn Ala Cys Gly Thr Ser Thr Leu Pro
    130                 135                 140
Gln Ser Cys Asp Lys Pro Ile Tyr
145                 150
```

<210> 23406
<211> 299
<212> PRT
<213> A.fumigatus

<400> 23406

```
Thr Pro Glu Tyr Gly Ser Ser Pro Gly Ser Ser Ser Arg Phe Asp Arg
1               5                   10                  15
Ala Asp Ser Ser Glu Val Gln Thr Gly Gly Pro Asn Gly Thr Leu Gly
            20                  25                  30
Leu Gly Leu Gly Ser Leu Arg Val Pro Thr Gln Leu Asp Pro Glu His
        35                  40                  45
His Ile Ala Phe Leu Glu Lys Gln Arg Lys Asn Lys Gly Ala Leu Arg
    50                  55                  60
Ile Pro Ser Pro Arg Glu Tyr Asp Arg Gly Gly Val Pro Glu Val Leu
65                  70                  75                  80
Glu Glu Ala Asp Asp Glu Gly Glu Gly Ser Lys Arg Thr Arg Ser Ser
                85                  90                  95
Glu Ser Asp Asp Glu Asn Ser Arg Asn Ser Glu Glu Ser Asp Gln Val
            100                 105                 110
Gly Pro Leu Glu Gly Pro His Ile Thr Ile Asn Glu Pro Asp Ile Gln
        115                 120                 125
Gln Thr Arg Thr Arg Asn Ser Thr Phe Pro Arg Leu Asp Thr Arg Pro
    130                 135                 140
Thr Tyr Arg Asp Thr Lys Asp Leu Asn Asp Thr Ser Ala Leu Glu Arg
145                 150                 155                 160
Ser Arg Ser Arg Arg Pro Thr Leu Ser Asn Leu Val Arg Ser Leu Thr
                165                 170                 175
Gln Glu Arg Glu Arg Thr Thr Leu Pro Tyr Leu Ser Trp Asn Ala Thr
            180                 185                 190
Val Ala Arg Asn Ser Asn Phe Val Asp Leu Thr Glu Glu Gln Arg Asp
        195                 200                 205
Glu Leu Gly Gly Ile Glu Tyr Arg Ala Leu Lys Thr Leu Ala Ile Val
    210                 215                 220
Leu Thr Ser Tyr Tyr Leu Phe Phe His Ile Leu Gly Met Val Cys Leu
225                 230                 235                 240
Val Gly Trp Ile Met Thr Thr His Trp Gly Gln Val Val Glu Gln Ile
                245                 250                 255
Gly Gln Gly Arg Pro Trp Trp Gly Ile Phe Thr Ala Gly Ser Ala Phe
            260                 265                 270
Asn Asp Val Gly Phe Thr Leu Thr Pro Asp Ser Met Thr Ser Phe Gln
        275                 280                 285
Val Phe Thr Thr Gly Leu Glu Gly Ser Ala His
    290                 295
```

<210> 23407
<211> 169
<212> PRT
<213> A.fumigatus

<400> 23407
Gln Ile Arg Glu Thr Glu Pro Asp Leu Lys Gly Arg Phe Ile Leu Gln
1 5 10 15
Asp Arg Pro Ile Val Ile Glu Glu Asn Gly Arg Glu Leu Glu Ser His
20 25 30
Gly Ile Glu Pro Met Ala His Asp Phe Phe Gln Pro Gln Pro Val Lys
35 40 45
Gly Met Gly Pro Ile Pro Val Pro Ser Phe Pro Asp Cys Leu Arg Leu
50 55 60
Asn Gly Ile Gly Ala Leu Val Tyr Tyr Val Arg Arg Val Phe His Asp
65 70 75 80
Trp Pro Asp Asp Glu Val Arg Gln Ile Leu Val Asn Leu Ala Ala Ala
85 90 95
Met Ala Gln His Ser Arg Ile Leu Ile Val Glu Phe Ile Met Pro Glu
100 105 110
Val Gly Ala Thr Met Ser Asn Ala Tyr Met Asp His Thr Met Met Thr
115 120 125
Phe Ala Gly Val Glu Arg Thr Glu Lys Asn Phe Ala Ser Leu Leu Asp
130 135 140
Gln Ala Gly Leu Lys Leu Val Lys Thr Trp Arg Ala Pro Gly Val Pro
145 150 155 160
Val Gly Val Val Glu Ala Arg Leu Gln
165

<210> 23408
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23408
Leu Leu Arg Gln Ser Lys Ala Val Leu Gln Ala Phe Glu Ala Glu Arg
1 5 10 15
Thr Tyr Leu Tyr Val Ser Thr Lys Ala Arg Lys Pro Glu Pro Gln Pro
20 25 30
Pro Glu Leu Met Thr Ala Leu His Asn Ala Ser Asp Thr Ile Asn Asn
35 40 45
Ile Arg Glu Val Phe Thr Thr Gly Ala Asp Gly Ser Ala Leu
50 55 60

<210> 23409
<211> 189
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (189)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23409
Asn Pro Gly Ser Ser Asp Ser Glu Gly Leu Arg Leu Leu Thr Gly Lys
1 5 10 15
Arg Ile Ser Met Phe Leu Gln Ser Trp Tyr Leu Phe Arg Lys Arg Val
20 25 30
Thr Ile Leu Arg Arg Asn Pro Ile Pro Tyr Leu Ala Ala Leu Leu Ile

```
        35                  40                  45
Pro Val Val Ala Ala Gly Leu Val Thr Leu Phe Leu Lys Gly Ala Thr
    50                  55                  60
Lys Ala Gly Cys Ser Gly Asp Ser Ala Tyr Arg Ala Ser Gly Phe Glu
65                  70                  75                  80
Ser Leu Ala Ser Leu Glu Asn Phe Glu Phe Val Val Gly Pro Arg Asp
                85                  90                  95
Arg Leu Ser Ile Ser Ala Leu Glu Ser Phe Ile Gly Ser Leu Ser Gly
            100                 105                 110
Leu Ile Arg Ser Thr Arg Asn Thr Ser Leu Asn Leu Asn Ser Arg Phe
        115                 120                 125
His Leu Val Asn Ser Leu Thr Glu Phe Glu Asp Tyr Ile Ser His Asn
    130                 135                 140
Tyr Thr Asn Ile Thr Pro Gly Gly Phe Tyr Leu Gly Asp Ala Asn Ser
145                 150                 155                 160
Ala Pro Thr Phe Ala Trp Lys Gly Asp Asn Ser His Phe Pro Leu Ser
                165                 170                 175
Gly Leu His His Arg Gly Arg Arg Ile Arg Gly Ser Xaa
            180                 185
```

<210> 23410
<211> 180
<212> PRT
<213> A.fumigatus

<400> 23410

```
Glu Asp Ser Arg Trp Ala Cys Pro Ala Val Val Ile Tyr Pro Asn Met
1               5                   10                  15
Tyr Arg Leu Ser Thr Leu Leu Met Ala Leu Gly Ser Val Thr Leu Ala
            20                  25                  30
Asp Thr Asn Ser Asn Thr Phe Asn Pro Leu His His Leu Ala Gly Ile
        35                  40                  45
Ser Pro Tyr Phe Thr Pro Asn Asp Pro Gln Leu Asp Pro Ser Val Pro
    50                  55                  60
Gln Gly Cys Asn Val Thr Arg Ala Ala Tyr Leu Ala Arg His Ala Ala
65                  70                  75                  80
Ile Tyr Ala Asn Asp Phe Asp Tyr Glu Arg Tyr Leu Glu Pro Phe Ile
                85                  90                  95
Gln Lys Leu Gln Asn Thr Thr His Asp Trp Ser Lys Gly Gly Ser Leu
            100                 105                 110
Ser Phe Leu Asn Lys Trp Asn Ala Pro Ile Thr Glu Ala His Leu Glu
        115                 120                 125
Lys Ile Thr Arg Ile Gly Leu Gln Gly Ile Asn His Val Trp His Gln
    130                 135                 140
Tyr Pro Arg Gln Val Ser Arg Leu Pro Asn Pro Lys Glu Cys Met Asp
145                 150                 155                 160
Ser Asn Ile Gly Glu Asn Arg Gln Asp Cys Thr Arg Ile Tyr Pro Trp
                165                 170                 175
Ile His Arg Gln
            180
```

<210> 23411
<211> 90
<212> PRT
<213> A.fumigatus

<400> 23411
Gln Pro Gln Glu Phe Val Ser His Tyr Thr Lys Pro Ile Ile Thr Arg
1 5 10 15
Leu Gln Ala Gln Ala Pro Ala Phe Asn Phe Thr Ser Asp Asp Ile Val
20 25 30
Ala Met Phe Glu Leu Cys Gly Tyr Glu Thr Val Ile Arg Gly Ser Ser
35 40 45
Pro Phe Cys Ser Leu Gly Leu Phe Thr Ala Thr Glu Trp Leu Ala Phe
50 55 60
Glu Tyr Gly Asn Asp Leu Met Tyr Phe His Asn Thr Gly Tyr Gly Arg
65 70 75 80
Asp Leu Ser Pro Ala Ile Gly Phe Pro Cys
85 90

<210> 23412
<211> 208
<212> PRT
<213> A.fumigatus

<400> 23412
Thr Ser Gly Thr Arg Gln Ser Pro Lys His Ile Ser Lys Lys Ser Pro
1 5 10 15
Glu Leu Val Cys Lys Glu Ser Ile Met Phe Gly Ile Asn Ile His Asp
20 25 30
Lys Tyr Pro Asp Phe Gln Thr Pro Lys Asn Val Trp Thr Ala Thr Ser
35 40 45
Glu Arg Thr Val Lys Thr Ala Gln Gly Phe Ile Leu Gly Tyr Thr Gly
50 55 60
Asn Glu Thr Ala Gln Ile Lys Leu Thr Gln Val Gly Gly Val Gln Ala
65 70 75 80
Arg Arg Ser Arg Leu Val Asn Pro Val Gln Lys Leu Pro Gly Ile Gln
85 90 95
Leu Gln Leu Trp Leu Gln Thr Val Gln Cys Thr Tyr Ser Pro Ser Pro
100 105 110
Pro Leu Thr Ala Arg Ala Asn Asn Pro Arg Asn Ser Ser Pro Thr Thr
115 120 125
Pro Asn Leu Ser Leu Arg Val Ser Lys Pro Arg Pro Pro Pro Ser Thr
130 135 140
Ser Arg Pro Thr Thr Ser Ser Pro Cys Ser Ser Ser Ala Ala Met Arg
145 150 155 160
Pro Ser Ser Ala Ala Pro Pro Pro Ser Ala Pro Ser Ala Ser Ser Pro
165 170 175
Pro Leu Asn Gly Ser Pro Ser Ser Thr Gly Thr Ile Ser Cys Thr Ser
180 185 190
Thr Thr Gln Ala Thr Ala Val Thr Tyr Pro Pro Pro Ser Ala Ser Pro
195 200 205

<210> 23413
<211> 61
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16),(19),(31),(32),(35),(40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23413
Met Glu Ile Pro Ser Tyr Pro His His Met Pro Leu Ile Ala Glu Xaa
1 5 10 15
Lys Glu Xaa Gly Ser Arg Asn Thr Arg Lys Pro Leu Ile His Xaa Xaa
20 25 30
Thr Thr Xaa Gln Ala Thr Gln Xaa Ala Gln Arg Ala Gln Thr Gly Ile
35 40 45
Thr His Gln Pro Phe Phe Phe Pro Thr Pro His Phe Ile
50 55 60

<210> 23414
<211> 69
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23414
Leu Tyr Ile Arg Pro Gly Ser Ser Leu Pro Lys Pro Lys Pro Gly Pro
1 5 10 15
Asp Glu Lys Thr Gly Pro Val Pro Glu Tyr Asp Lys Gly Gly Ser Gln
20 25 30
Ala Lys Arg Leu Ser Ala Ser Xaa Gly Pro Asn Gly Ser Ser Arg Gly
35 40 45
Arg Ala Gly Arg Ser Lys Arg Pro Xaa Asp Lys Asp Lys Thr Gln Gly
50 55 60
Gly Arg Arg Val Ile
65

<210> 23415
<211> 255
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10),(12),(51)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23415
Gly Val Cys Gly Cys Phe Cys Tyr His Xaa Leu Xaa Ile Pro Leu Leu
1 5 10 15
Val Ala Tyr Asp Glu Asp Met Arg Gly Phe Pro Phe Thr Arg Leu Pro
20 25 30
Ser Lys Lys Leu Arg Ser Ser Val Asp Ala Ala Pro Glu Asn Leu Asn
35 40 45
Pro Ile Xaa Glu Val Pro Pro Gln Gln Ser Pro Arg Arg Gly Arg Pro
50 55 60
Pro Lys Lys Lys Lys Lys Lys Pro Glu Arg Cys Pro Glu Glu Ser Ala
65 70 75 80
Gly His Thr Glu Lys Ser Ala Glu Met Thr Ser Lys Arg Gln Thr Arg
85 90 95

```
Arg Arg Arg Ser Pro Val Thr Glu Pro Glu Pro Gln Pro Gln Ser Val
            100                 105                 110
Thr Arg Ser Ser Ala Arg Lys Arg Glu Glu Ala Glu Ser Val Pro Lys
        115                 120                 125
Glu Lys Lys Arg Arg Lys Gly Arg Pro Ser Lys Thr Glu Val Glu Ala
    130                 135                 140
Arg Asn Gly Phe Val Ser Pro Glu Pro Gln Gln Ser Ser Thr Ala Lys
145                 150                 155                 160
Ile Ala Leu Pro Leu Ala Asp Thr Pro Val Ile Gln Arg Asn Lys Glu
                165                 170                 175
Met Arg Lys Glu Ala Lys Ser Glu Lys Gly Gly Lys Gly Arg Arg Ser
            180                 185                 190
Ser Leu Gly Met Arg Gly Arg Arg Ala Ser Ser Leu Ile Asp Ser Gly
        195                 200                 205
Ala Ser Asn Gly Thr Asn Gly Leu Val Glu Phe Ala Met Glu Thr Ala
    210                 215                 220
Val Leu Thr Thr Phe Gln Arg Cys Leu Thr Lys Arg Ser Thr Gln Pro
225                 230                 235                 240
Ile Ser Thr Asn Ile Leu Gln Met Gly Ser Gln Asn Arg Gly Gly
                245                 250                 255
```

<210> 23416
<211> 94
<212> PRT
<213> A.fumigatus

```
<400> 23416
Ser Ser Ala Pro Ala Arg Pro Val Val Lys Thr Ser Leu Leu Asn Pro
1               5                   10                  15
Ser Asn Asn Val Leu Asn Ala Asp Arg Ala Leu Phe His Pro Lys Val
            20                  25                  30
Pro Leu His Leu Glu Gly Ile Leu Ala Leu Asn Leu Leu Ser Val Tyr
        35                  40                  45
Glu Tyr Ala Gln Arg Gly Asn Leu Cys Thr Met Thr Asp Arg Ala Asn
    50                  55                  60
Glu Ala Leu Thr Ser Ala Met Lys Met Ser Leu His Glu Ser Leu Glu
65                  70                  75                  80
Glu Asp Glu Tyr Gly Gly Gly Pro Gly Glu Gly Pro Gly Gly
                85                  90
```

<210> 23417
<211> 60
<212> PRT
<213> A.fumigatus

```
<400> 23417
Pro Ile Pro Leu Phe Leu Leu Arg Leu Ser Cys Asp Asp Ala Thr Arg
1               5                   10                  15
Ala Met Ile Ser Leu His Ser Phe Thr Pro Leu Lys Phe Tyr Tyr Ser
            20                  25                  30
Leu Leu Arg Pro Ile Ala Asn Asn Lys Ala Ala Ser Tyr Gly Arg Val
        35                  40                  45
Ala Phe Pro Val Asn Gln Ile Leu Leu Asp Cys Gln
    50                  55                  60
```

<210> 23418

<211> 153
<212> PRT
<213> A.fumigatus

<400> 23418
Asn Leu Phe His Thr Cys Ala Pro Arg Leu Lys Pro Ile Ile Gln Arg
1 5 10 15
Leu Tyr Thr Ala Asn Ile Tyr His Asp Leu Leu Tyr Thr Leu Gly Phe
20 25 30
Thr Glu Lys Ala Gly Asn Phe Glu Tyr Asn Thr Asn Gly Gln Gly Gly
35 40 45
Leu Gly Asn Asp Tyr Val Ile Leu Asn Ala Gln Asp Gly Ser Gly Thr
50 55 60
Asn Asn Ala Asn Phe Ala Thr Pro Pro Asp Gly Gln Pro Gly Arg Met
65 70 75 80
Arg Met Tyr Val Trp Thr Glu Ser Thr Pro Tyr Arg Asp Gly Ser Phe
85 90 95
Glu Ala Gly Ile Val Ile His Glu Tyr Thr His Gly Arg Thr Tyr Tyr
100 105 110
Leu Ala Gly Phe Ile Asp Thr Arg Leu Thr Pro Phe Phe Ser Phe Gln
115 120 125
Pro Thr His Trp Arg Pro Cys Gln Leu Gln Leu Pro Glu Arg Pro Arg
130 135 140
Val Arg Arg His Gly Arg Arg Leu Glu
145 150

<210> 23419
<211> 76
<212> PRT
<213> A.fumigatus

<400> 23419
Phe His Gly Asp Gly His Pro Ser Glu Ala Arg Arg Gln Ala Leu Asp
1 5 10 15
Arg Leu His His Gly Arg Met Gly Phe Gln Pro Gly Arg Arg Asn Pro
20 25 30
Pro Val Pro Val Leu Asp Leu Ala Glu His Gln Pro Ser Asn Val His
35 40 45
Gln Arg Gln Leu Ala Glu Arg Gly Ala Arg His Trp His Gly Leu Gly
50 55 60
Ile His Ala Val Arg Gly Val Val Glu Phe Asp Arg
65 70 75

<210> 23420
<211> 153
<212> PRT
<213> A.fumigatus

<400> 23420
Ser Thr Ser Ile Leu Thr Val Val Arg Ile Thr Leu Leu Val Leu Leu
1 5 10 15
Thr His Asp Ser Pro Leu Phe Ser Val Ser Asn Arg Leu Thr Gly Gly
20 25 30
Pro Ala Asn Ser Asn Cys Leu Asn Ala Leu Glu Ser Gly Gly Met Gly
35 40 45
Glu Gly Trp Ser Asp Phe Met Ala Thr Ala Ile Arg Leu Lys Pro Gly

```
    50                  55                  60
Asp Lys Arg Ser Thr Asp Tyr Thr Met Gly Glu Trp Ala Ser Asn Arg
65                  70                  75                  80
Ala Gly Gly Ile Arg Gln Tyr Pro Tyr Ser Thr Ser Leu Ser Thr Asn
                85                  90                  95
Pro Leu Thr Tyr Thr Ser Val Asn Ser Leu Asn Ala Val His Ala Ile
            100                 105                 110
Gly Thr Val Trp Ala Ser Met Leu Tyr Glu Val Leu Trp Asn Leu Ile
        115                 120                 125
Asp Lys His Gly Lys Asn Asp Ala Pro Lys Pro Thr Leu Arg Asp Gly
    130                 135                 140
Val Pro Thr Asp Gly Ser Thr Leu Pro
145                 150
```

<210> 23421
<211> 219
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (176)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23421

```
Arg Lys Gln Gln Ser Phe Ser Leu Ser Leu Leu His Thr His Pro Leu
1                   5                   10                  15
Val Leu Ser Arg Ser Val Leu Leu Ile Ser Val Phe Phe Ile Pro Leu
            20                  25                  30
Asp Thr Met Glu Ala Pro Pro Gln Met Pro Ser Ile Ser Val Val Ala
        35                  40                  45
Ser Ser Arg Ala Val Ile Ser Gly Arg Leu Thr Ser Ala Thr Ile Val
    50                  55                  60
Ile Ser Arg Thr Thr Gly Lys Ile Thr Ala Val Phe Asp Ser Val Ile
65                  70                  75                  80
Leu Ala Ser Glu Phe Pro Ala Gly Thr Pro Tyr Thr Asp Tyr Ser Pro
                85                  90                  95
His Val Leu Leu Pro Gly Leu Val Asp Ala His Val His Leu Asn Glu
            100                 105                 110
Pro Gly Arg Thr Glu Trp Glu Gly Phe Tyr Thr Gly Thr Gln Ala Ala
        115                 120                 125
Ala Phe Gly Gly Val Thr Thr Val Ile Asp Met Pro Leu Asn Ala Ile
    130                 135                 140
Pro Pro Thr Thr Thr Val Ala Gly Leu Lys Glu Lys Ile Gln Ala Ala
145                 150                 155                 160
Glu Gly Lys Cys Trp Val Asp Val Gly Phe Tyr Gly Gly Ile Val Xaa
                165                 170                 175
Gly Asn Ala Gly Glu Leu Lys Ala Leu Val Gln Gln Gly Val Arg Gly
            180                 185                 190
Phe Lys Gly Phe Leu Ile Asp Ser Gly Val Cys Ile Cys Ser Leu Ala
        195                 200                 205
Arg Ser Ser Val His Thr Asp Arg Phe Ile Leu
    210                 215
```

<210> 23422
<211> 246

<212> PRT
<213> A.fumigatus

<400> 23422
Val Cys Arg His Leu Leu Thr Cys His Ser Gly Tyr Tyr Gly Pro Asp
1 5 10 15
Gly Asn His Asn Gln Gln Glu Gly Gly Tyr Tyr Asp Ala Gly Gln Pro
20 25 30
His Asp His Tyr Tyr Gly Asp His Tyr Tyr Asp Gln Gly Asn Gly Gln
35 40 45
Gln Gly Tyr Asp Asn Arg Gly Arg Arg Arg Gly Asp Ser Glu Glu Asp
50 55 60
Ser Glu Thr Phe Ser Asp Phe Thr Met Arg Ser Glu Thr Ala Arg Ala
65 70 75 80
Ala Asp Met Asp Tyr Tyr Gly Arg Gly Asp Glu Arg Tyr Asn Ser Tyr
85 90 95
Ala Asp Ser Gln Tyr Gly Gly Arg Gly Tyr Gly Tyr Arg Pro Pro Ser
100 105 110
Ser Gln Ile Ser Tyr Gly Ala Asn Arg Ser Ser Gly Ala Ser Thr Pro
115 120 125
Val Tyr Gly Met Asp Tyr Gly Asn Ala Leu Pro Ala Gly Gln Arg Ser
130 135 140
Arg Glu Pro Tyr Pro Ala Trp Ala Ser Asp Gly Gln Val Pro Val Ser
145 150 155 160
Lys Glu Glu Ile Glu Asp Ile Phe Leu Asp Leu Val Asn Lys Phe Gly
165 170 175
Phe Gln Arg Asp Ser Met Arg Asn Met Tyr Asp His Leu Met Thr Met
180 185 190
Leu Asp Ser Arg Ala Ser Arg Met Thr Pro Asn Gln Ala Leu Leu Ser
195 200 205
Leu His Ala Asp Tyr Ile Gly Gly Asp Asn Ala Asn Tyr Arg Arg Trp
210 215 220
Tyr Phe Ala Ala His Leu Asp Leu Asp Asp Ala Val Gly Phe Ala Asn
225 230 235 240
Met Lys Leu Val Lys Ser
245

<210> 23423
<211> 131
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23423
Met Ile Xaa Gly Ser Arg Gly Ser Glu Gly Ile Arg Val Val Leu Ser
1 5 10 15
Asp Glu Ser Val Ser Val Glu Pro Leu Asp Ile Thr Lys Ala Lys Ala
20 25 30
Ala Glu Ser Ile Leu Glu Gln Leu Pro Glu Thr Pro Asp Phe Leu Phe
35 40 45
Val Thr Gly Gly Ser Arg Gly Asp Glu Ala Leu Phe Arg Trp Ala Asn
50 55 60

```
Arg Leu Gln Gly Glu Asn Lys Ile Pro Asp Val Thr Thr Val Thr Val
65                  70                  75                  80
Gly Ser His Ala Thr Glu Ala Thr Ala Val Leu Pro Thr Gly Met Ser
                85                  90                  95
Ile Ala Asp Val Val Asn Thr Leu Thr Ser Ser Ser Val Asn Gly Ala
            100                 105                 110
Asn Ile Ala Asn Gly His Glu Pro Pro Val Asn Gly Asp Asn Ser Ala
        115                 120                 125
Leu Ser Ser
    130
```

<210> 23424
<211> 285
<212> PRT
<213> A.fumigatus

<400> 23424

```
Ser Pro Asp Phe Ile Thr Tyr Ser Met Val Ala Arg Ser Arg Phe Ser
1               5                   10                  15
Pro Thr Ile Phe Tyr Ala Asn Thr Pro Gln Ser Ile Arg Glu Lys Ser
            20                  25                  30
Asn Leu Asp Pro Asn Leu Val Glu Asp Val Cys Val Gly Asn Val Leu
        35                  40                  45
Ala Pro Gly Ser Ala Tyr Ile Ala Arg Ser Ala Val Leu Ala Ala Gly
    50                  55                  60
Phe Pro Val Thr Ala Ala Ala Ser Ile Ala Asn Arg Phe Cys Ser Ser
65                  70                  75                  80
Gly Leu Leu Ala Ile Gln Asn Val Ala Asn Gln Ile Met Ala Gly Ser
                85                  90                  95
Ile Asp Ile Gly Ile Ala Val Gly Ala Glu Ser Met Ser Thr Asn Ala
            100                 105                 110
Asp Gly Gly Ala Pro Glu Met Ser Ala Gln Ile Leu Ser His Pro Ile
        115                 120                 125
Ala Ser Gln Asn Thr Gln Pro Met Gly Gln Thr Ser Glu Asn Val Ala
    130                 135                 140
Ala Gln Phe Asn Ile Ser Arg Glu Gln His Asp Gln Phe Ala Ala Lys
145                 150                 155                 160
Ser Tyr Gln Lys Ala Glu Arg Ala Gln Lys Ser Gly Trp Thr Ala Asp
                165                 170                 175
Glu Ile Val Pro Val Lys Thr Gln Val Lys Asp Pro Lys Thr Gly Glu
            180                 185                 190
Val Lys Asp Val Val Val Asp Arg Asp Asp Gly Ile Arg Tyr Gly Thr
        195                 200                 205
Thr Val Glu Ser Leu Ser Lys Ile Arg Ser Ala Phe Pro His Trp Lys
    210                 215                 220
Pro Ser Gly Pro Thr Arg Gly Lys Cys His Ser Asn Pro Arg Trp Ala
225                 230                 235                 240
Pro Gly Val Phe Pro Ile Asn Arg Ser Leu Ala Gln Glu Ile Arg Asn
                245                 250                 255
Thr Thr Ile Gly Lys Phe Gly Arg Thr Thr Phe Ser Gly Phe Gly Asn
            260                 265                 270
Pro Asp Phe Trp Val Leu Gly Pro Pro Leu Asp Ile Pro
        275                 280                 285
```

<210> 23425
<211> 235

<212> PRT
<213> A.fumigatus

<400> 23425
Leu Arg Thr Leu Ser Ala Arg Pro Ser Thr Leu Val Val Glu Asp Asp
1 5 10 15
Pro Met Gly Val Met Arg Phe His Phe Lys Ser Ala Thr Asp Leu Arg
20 25 30
Asn Leu Glu Lys Met Gly Lys Ser Asp Pro Tyr Val Arg Val Leu Leu
35 40 45
Ser Gly Ile Thr Lys Gly Arg Thr Val Thr Phe Arg Asn Asn Leu Asn
50 55 60
Pro Glu Trp Asp Glu Val Val Tyr Val Pro Ile His Ser Ala Arg Glu
65 70 75 80
Lys Leu Thr Leu Glu Val Met Asp Glu Glu Ser Leu Asn Ala Asp Arg
85 90 95
Ser Leu Gly Ser Phe Glu Ile Asn Ala Ser Asp Tyr Val His Glu Asn
100 105 110
Glu Asn Gly Glu Tyr Glu Thr Asp Asp Glu Lys Gln Leu Ile Ser Ser
115 120 125
Pro Leu Arg Leu Gly His Arg Glu Lys Gly Val Leu Asn Tyr Thr Val
130 135 140
Ala Phe Tyr Pro Ala Val Pro Val Val Asn Pro Glu Asp Glu Glu Glu
145 150 155 160
Glu Glu Ala Glu Glu Met Glu Gly Leu Asp Val Pro Ala Val Arg Lys
165 170 175
Ser Ile Asp Ser Arg Arg Lys Ser Ser His Ser Lys Asn Pro Ser Val
180 185 190
Asp Ser Lys Ala Ser Lys Ser Thr Ala Asn Gly Gln Asn Gly Ala Ala
195 200 205
Thr Asn Gly Thr Thr Thr Asn Gly Asp Glu Leu Lys Val Pro Val Phe
210 215 220
Thr Thr Gly Gly Arg Thr Ile Arg Ala Lys His
225 230 235

<210> 23426
<211> 254
<212> PRT
<213> A.fumigatus

<400> 23426
Lys Arg Cys Leu Pro Ala Gln Asp Ser Leu Ser Ile Trp Leu Pro Cys
1 5 10 15
Arg Ala Val Leu Ala Asp Cys Arg His Gly Phe Gly Lys Asp Ile Tyr
20 25 30
Asp Ala Ser Val Ala Gln Thr Cys Ile Ser Asn Leu Leu Ala Ile Gly
35 40 45
Tyr Arg Arg Phe Leu Ile Asp Ile Tyr Trp Ser Val Glu Gln Arg Asn
50 55 60
Trp Ile Leu Cys Pro Val Ala Lys Pro Gln Asp Ala Gln Val Val Thr
65 70 75 80
Val Ser Thr Thr Arg Ser Pro Thr Ala Thr Ala Ser Ala Val Thr Gly
85 90 95
Thr Leu Thr Ala Val Ala Ala Pro Ser Gly Ser Leu Leu Tyr Glu Leu
100 105 110
Gly Pro Tyr Leu Cys Ser Asp Asn Leu Asp Leu Ser Gly Leu Val Asp

```
        115                 120                 125
Ile Phe Ala Glu His Phe Arg Val Thr Asn Ser Gln Trp Asn Val Tyr
    130                 135                 140
Thr Thr Phe Ile Thr Val Asn Leu His Val Ala Ser Ser Thr Ala Ser
145                 150                 155                 160
Phe Asp Gln Pro Ala Ala Ser Val Thr Asn Glu Gln Leu Pro Leu Pro
                165                 170                 175
Ser Glu Tyr Val Ser Ala Leu Phe Asn Ala Arg Leu Ser Thr Tyr Ile
            180                 185                 190
Tyr Arg Pro Ser Glu Leu Ala Lys Glu Arg Lys Asn Leu Asn Glu Ser
        195                 200                 205
Trp Tyr Ala Val Asp Asp Gly Tyr Gln Pro Ile Thr Glu Tyr Phe Thr
    210                 215                 220
Leu His Glu Asp Ala Asn Gly Lys Gln Ser Thr Pro Asp Gly Trp Pro
225                 230                 235                 240
Ser Ser Lys Tyr Val Gln Leu Ala Gln Glu Arg Arg Ile Phe
                245                 250
```

<210> 23427
<211> 219
<212> PRT
<213> A.fumigatus

```
<400> 23427
Arg Ile Leu Gln Phe Phe Gln Gln Met Cys Gly Gly Asn Leu Ile Ser
1                   5                   10                  15
Val Tyr Ala Ser Thr Ile Phe Glu Gln Asn Leu Gly Leu Ser Ala Ser
            20                  25                  30
Leu Ser Lys Asn Leu Ala Ala Cys Ala Leu Thr Trp Lys Phe Ile Cys
        35                  40                  45
Cys Phe Ile Ala Phe Phe Thr Ile Asp Arg Leu Gly Arg Arg Val Val
    50                  55                  60
Phe Met Ile Ser Gly Thr Gly Met Ala Ile Cys Met Ile Ala Leu Ala
65                  70                  75                  80
Ile Thr Asn Ser Arg Gly Thr Asp Asn Lys Gly Ala Ser Ile Ala Ser
                85                  90                  95
Val Val Phe Ile Phe Leu Phe Asn Leu Phe Tyr Pro Ile Gly Phe Leu
            100                 105                 110
Gly Gly Asn Phe Leu Tyr Cys Thr Glu Val Ala Pro Val Arg Leu Arg
        115                 120                 125
Val Ala Met Ser Ser Ile Ser Thr Ala Asn His Trp Leu Trp Asn Phe
    130                 135                 140
Val Val Val Met Val Thr Pro Ile Ala Leu Asp Thr Ile Gly Tyr Gln
145                 150                 155                 160
Tyr Tyr Val Met Tyr Ala Val Leu Ser Ala Cys Ile Pro Leu Leu Val
                165                 170                 175
Tyr Phe Phe Tyr Pro Glu Thr Met Asn Arg Asn Leu Glu Leu Leu Asn
            180                 185                 190
His Val Phe Arg Asp Ala Ser Ser Pro Trp Lys Ile Val Ser Met Ala
        195                 200                 205
Lys His Leu Pro Gln Gly Glu Val Thr Asp Ala
    210                 215
```

<210> 23428
<211> 104
<212> PRT

<213> A.fumigatus

<400> 23428
Ser Met Met Gly Phe Phe Pro Val His Gly Gln Asp Val Tyr Leu Ile
1 5 10 15
Thr Pro Pro Phe Phe Lys Glu Val Ser Ile Arg Asn Gln Val Thr Gly
20 25 30
Lys Val Ala Thr Val Arg Asn Thr Asn Phe Asp Pro Ser Tyr Lys Ala
35 40 45
Ile Tyr Ile Gln Ser Ala Lys Arg Asp Gly Lys Leu Trp Thr Lys Asn
50 55 60
Trp Ile Ser His Asp Phe Phe Val Asp Gly Gly Val Leu Glu Leu Glu
65 70 75 80
Leu Gly Pro Ala Glu Ser Ala Trp Gly Thr His Val Glu Asp Leu Pro
85 90 95
Pro Ser Leu Gly Gly Tyr Arg Met
100

<210> 23429
<211> 324
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (319)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23429
Cys Phe Lys Pro Arg Gly Lys Val Arg Cys Ser Thr Pro Leu Thr Gln
1 5 10 15
His Ile Gly Gln Gln Pro Ala Ser Glu Pro Ala Val Phe Arg Leu Leu
20 25 30
Val Leu Ala Asp Pro Gln Leu Glu Gly Asp Ser Ser Leu Pro Ser Pro
35 40 45
Asp Lys Glu Leu Ser Ala Arg Ile Lys Gln His Trp Thr Ser Ile Arg
50 55 60
Ser Ser Val Thr Asp Ser Gly Ser Pro Phe His Arg Asp Val Leu Arg
65 70 75 80
Asn Val Thr Ala Ala Leu Arg Thr Leu Ala His Glu Asp Val Pro Arg
85 90 95
Ser Ile Gln Ala Ala Arg Lys Arg Leu Asp Leu Val Gly Asn Asp Phe
100 105 110
Tyr Leu Ala His Ile Tyr Arg Thr Leu His Trp Trp Ser Arg Pro Thr
115 120 125
His Val Thr Val Leu Gly Asp Leu Ile Gly Ser Gln Trp Val Thr Asp
130 135 140
Glu Glu Phe Glu Arg Arg Ala Asp Arg Tyr Trp Asn Arg Val Phe Arg
145 150 155 160
Gly Gly Glu Arg Val Ser Asp Asp Ile Thr Val Thr Gly Ser Ala Gly
165 170 175
Tyr Gly Ala Gly Ser Gly Asp Val Ser Ala Leu Glu Glu Leu Asn Ala
180 185 190
Thr Asp Ser Ala Trp Thr Arg Arg Ile Ile Asn Ile Ala Gly Asn His
195 200 205
Asp Ile Gly Tyr Ala Gly Asp Ala Ser Glu Asp Arg Ile Glu Arg Phe

```
    210                 215                 220
Glu Arg Ile Phe Gly Arg Ala Asn Trp Asp Ile Arg Phe Gln His Thr
225                 230                 235                 240
Leu Gly Asn Gln Ala Gly Gly Thr Ala Asp Ala Thr Val Lys Pro Thr
                245                 250                 255
Leu His Leu Ile Asn Leu Asn Thr Leu Thr Leu Asp Gly Pro Ala Leu
            260                 265                 270
Ser Glu Gln Val Gln Ser Asn Ser Tyr Ala Phe Ile Asn Asp Leu Ile
        275                 280                 285
Thr His Arg Thr Tyr Pro Val Glu Asp Arg Thr Thr Phe Thr Leu Leu
    290                 295                 300
Leu Thr His Leu Pro Leu His Val Phe Thr Ala Gly Leu Gln Xaa Ala
305                 310                 315                 320
Cys Tyr Asn Asn
```

<210> 23430
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23430

```
Arg Gly Cys Gln Cys Cys Tyr Ile Pro Ser Ala Ser Ala Leu Phe Ser
1               5                   10                  15
Thr Ser Thr Asn Thr Phe Val Thr Ser Tyr Arg Ala Pro Ser Leu Tyr
            20                  25                  30
Ser Pro Gly Tyr Thr Ser Asn Ala Phe Ser Ser His Thr Phe Arg His
        35                  40                  45
Cys Ser Ser Leu Ser Pro Thr Arg Val Asp His Asn Gln Arg
    50                  55                  60
```

<210> 23431
<211> 270
<212> PRT
<213> A.fumigatus

<400> 23431

```
Phe Ser Ser Arg Leu Val Lys Thr Gln Phe Leu Lys Asp Lys Pro Leu
1               5                   10                  15
Arg Arg Ala Thr Met Ser Ser Leu Pro Leu Pro Val Thr Ser Gln Arg
            20                  25                  30
Glu Pro Ala His Thr Gln Ser Ser Ser Thr Thr Thr Trp Ala Ile Pro
        35                  40                  45
Pro Pro Asn His Thr Phe Val Pro Lys Ser Ser Lys Asn Val Asp Leu
    50                  55                  60
Ser Ser Asp Ala Thr Ile Pro Ala Ser Asp Pro Ala Leu Gln Asp Asp
65                  70                  75                  80
Met Ser Asp Glu Gly Val Asn Ala Ala Thr Ser Gln Ala Pro Leu Arg
                85                  90                  95
Ser Ser Pro Pro Gln Pro Ile Arg Ser Ser Pro Pro Ile Ala Pro Pro
            100                 105                 110
Arg Phe Ile Arg Gln Gly Thr Pro Pro Thr Pro Ser His Pro Thr Pro
        115                 120                 125
Ser Ala Thr Val Pro His Ser Arg Gln Arg Glu Ser Thr Thr Ile Asn
    130                 135                 140
Asp Ser Gly Tyr Phe Ser Ser Leu Glu Ser Ser Ala Met Arg Pro Lys
```

```
145                 150                 155                 160
Lys Thr Gly His Ile Leu Thr Ser Asp Leu Asp Ile Asp Pro Pro Arg
                165                 170                 175
Ile Lys Arg Gly Arg Ala Glu Glu Glu Ile Ala Arg Ile Arg Ser Ser
            180                 185                 190
Ser His Asp Ile Ser Pro Arg Arg Pro Gly Met Leu Thr Asp Ala Gly
        195                 200                 205
Val Val Thr Gly Ser Ser Pro Ala Arg Gly Glu Tyr Val Ser Met Leu
    210                 215                 220
Pro Pro Pro Leu Thr Pro Val Asn Lys Phe Lys Lys Pro Val Lys Pro
225                 230                 235                 240
Pro Pro Ser Val Ser Pro Asn Thr Asn Leu Pro Glu Ser Pro Gln Glu
                245                 250                 255
Asn Pro Thr Asn Gly Gln Phe Ser Leu Lys Lys Ile Gly Ala
            260                 265                 270
```

<210> 23432
<211> 81
<212> PRT
<213> A.fumigatus

<400> 23432

```
Pro Cys Phe Phe Ser Phe Glu Gly Ser Thr Thr Gln Val Ala Tyr Thr
1               5                   10                  15
Ser Thr Glu Ser Gly Phe Leu Val Phe Lys Phe His Glu Ala Gln Leu
            20                  25                  30
Ser Arg Ser Asn Val Gln Leu Glu Val Leu Met Asp Asp His Met Phe
        35                  40                  45
Pro Ser Tyr Ser Thr Pro Lys Ile Arg Ser Lys Ala Ala Lys Leu Val
    50                  55                  60
Asp Gly Leu Ser Pro Glu Gly Lys Ser Thr Gly Lys Glu Ala Asp Ser
65                  70                  75                  80
Tyr
```

<210> 23433
<211> 221
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (198),(203)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23433

```
Asp Glu His Gln Tyr Ile Glu Tyr Ala Arg Gln Gln Lys Ala Tyr Lys
1               5                   10                  15
Lys Leu Thr Thr Ile Phe Thr Asp Ala Leu Arg Leu His Pro Thr Ser
            20                  25                  30
Val Asp Leu Trp Ile Tyr Ala Ala Gln Tyr Asn Leu Asp Asp His Ala
        35                  40                  45
Asp Met Thr Met Ala Arg Thr Tyr Met Gln Arg Gly Leu Arg Phe Cys
    50                  55                  60
Lys Ser Ser Arg Lys Leu Trp Leu His Tyr Ala Lys Leu Glu Leu Ile
65                  70                  75                  80
```

```
Tyr Ile Ala Lys Leu Val Ala Arg Gln Arg Ile Leu Gly Leu Asp Gln
                85                  90                  95
Lys Ile Glu Thr Thr Asn Pro Ala Glu Gly Ser Gly Phe Asp Asp Pro
            100                 105                 110
Asn Ala Asp Met Ile Ala Leu Pro Lys Ile Thr Gly Glu Asp Ile Asn
        115                 120                 125
Pro Ser Ala Gly Asp Glu Asp Gly Val Asp His Val Ala Leu Glu Lys
    130                 135                 140
Leu Asn Ser Thr Pro Ala Leu Ser Gly Ala Val Pro Leu Ala Val Phe
145                 150                 155                 160
Asp Thr Ala Met Lys Asn Phe Asn Asn Asp Asp Arg Phe Gly His Glu
                165                 170                 175
Phe Tyr Asp Met Val Ser Glu Phe Glu Asp Leu Pro Cys Leu Arg Lys
            180                 185                 190
Ile Leu Gly His Val Xaa Glu Val Met Ser Xaa His Lys Pro Asn Ser
        195                 200                 205
Tyr His Thr His Ile Cys Asn Ile Lys Tyr Pro Thr Ala
    210                 215                 220
```

<210> 23434
<211> 245
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (208)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23434

```
Arg Gln Asp Gly Lys Gly Glu Phe Ser Pro Leu Lys Ala Ile Thr Glu
1               5                   10                  15
Arg His His Pro Tyr Phe Val Glu Leu Leu Ala Thr Glu Ala Gly Val
            20                  25                  30
Glu Pro Ala Asp Ile Leu Asp Phe Glu Met Ile Leu Phe Asp Thr Gln
        35                  40                  45
Lys Ser Cys Leu Gly Gly Met His Glu Glu Phe Ile Phe Ser Pro Arg
    50                  55                  60
Leu Asp Asn Leu Asn Ser Ser Phe Cys Ala Thr Val Gly Leu Ile Glu
65                  70                  75                  80
Ser Val Ala Asp Ser Ser Ala Leu Asp Asp Glu Thr Ser Ile Arg Leu
                85                  90                  95
Ile Ser Leu Phe Asp His Glu Glu Ile Gly Ser Arg Thr Ala Gln Gly
            100                 105                 110
Ala Asp Ser Asn Leu Leu Pro Ala Val Ile His Arg Leu Ser Val Leu
        115                 120                 125
Pro Ser Thr Ser Ser Asp Gln Asp Asp Val Ser Thr Ala Tyr Glu Gln
    130                 135                 140
Thr Leu Ser Thr Ser Phe Leu Leu Ser Ala Asp Met Ala His Ala Val
145                 150                 155                 160
His Pro Asn Tyr Ala Ala Lys Tyr Glu Ser Asp His Arg Pro Glu Ile
                165                 170                 175
Asn Lys Gly Pro Val Ile Lys Ile Asn Ala Asn Ala Arg Tyr Ala Thr
            180                 185                 190
Asn Ser Pro Gly Ile Val Leu Leu Gln Glu Val Ala Arg Lys Ala Xaa
        195                 200                 205
```

```
Glu Asn Gly Gly Glu Arg Ile Pro Leu Gln Leu Phe Leu Val Arg His
    210                 215                 220
Asn Ser Ser Cys Gly Ser Thr Ile Gly Pro Met Arg Ser Ala Cys Thr
225                 230                 235                 240
Lys Cys Pro Asn Pro
                245
```

<210> 23435
<211> 409
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (136)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23435

```
Cys Leu Lys Pro Phe Gly Asp Asn Thr Phe Val Gln Met Lys Arg Leu
1               5                  10                  15
Gln Leu Leu Arg Trp Ser Ser Ser Val Arg Ser Pro Arg Pro Arg Thr
            20                  25                  30
Asn Ser Arg Leu His Gln Arg Val Cys Ala Ser Leu Arg Tyr Gln Ser
        35                  40                  45
Thr Ser Ser Pro Val Thr Gln Ala Glu Glu His Gln Ser Ile Glu Glu
    50                  55                  60
Gln Ser Leu Arg Ser Pro Ile Pro Pro Ser Asn Ser Arg Gln Ser Arg
65                  70                  75                  80
Tyr Leu Leu Pro Ser Pro Pro Val Glu Ala Ala Arg Glu Ser Ala Lys
                85                  90                  95
Leu Ala Ala Leu His Ala Arg Leu Tyr Leu Pro Ser Arg Leu Pro Leu
            100                 105                 110
Glu Thr Leu Ala Arg Ala Leu Val Asp Ala Ser Ala Asp Pro Asn Pro
        115                 120                 125
Asp Phe Asn Asn Glu Ser Leu Xaa Thr Leu Gly His Asp Leu Leu Thr
    130                 135                 140
Asn Tyr Thr Ser Glu His Leu Ile Cys Thr Tyr Pro Arg Leu Pro Leu
145                 150                 155                 160
Thr Val Ile Phe Ala Ala Met Tyr Ala Tyr Val Gly Pro Lys Thr Leu
                165                 170                 175
Ser Ala Met Ala Arg Glu Trp Gly Val Glu Met Ala Val Ala Pro Gly
            180                 185                 190
Gly Glu Val Asp Pro Gly Leu Leu Gln Phe Arg Arg Val Ser Pro Gly
        195                 200                 205
Thr Asp Leu Asn Ala Glu Pro Val Thr Gly Thr Ala Arg Pro Asn Asp
    210                 215                 220
His Arg Lys Ser Trp Arg Lys Ser Ile Thr Ser Arg Val Val Tyr Asp
225                 230                 235                 240
Asn Glu Phe Gly Asp Pro Val Lys Glu Val Ala Asp Ser Ala Ala Gln
                245                 250                 255
Ala Val Ser Glu Thr His Gly Ala Gln Gly Val Thr Ala Glu Gln Ala
            260                 265                 270
Ser Ala Thr Phe Val Arg Ala Val Met Gly Ala Ile Tyr Leu His Ala
        275                 280                 285
Gly Arg Pro Ala Ala Lys Arg Phe Phe Glu Gln His Ile Leu Ser Arg
    290                 295                 300
```

```
His Leu Asn Ile Ser Glu Leu Phe Asn Phe Ser Gln Pro Ala Arg Asp
305                 310                 315                 320
Leu Thr Arg Leu Cys Ala Arg Glu Asn Phe Glu Arg Pro Val Ala Lys
                325                 330                 335
Ile Ile Ser Glu Thr Gly Arg Lys Ser Arg His Pro Val Phe Val Val
            340                 345                 350
Gly Ile Tyr Ser Gly Gln Asp Lys Leu Gly Glu Gly Ala Gly Ala Ser
        355                 360                 365
Leu Met Glu Ala Arg Ser Arg Ala Ala Val Ala Ala Leu Lys Gly Trp
    370                 375                 380
Tyr Leu Tyr Ser Pro Leu Asn Val Arg Val Pro Ser Ser Met Glu Glu
385                 390                 395                 400
Glu Gly Ala Ala Pro Trp Lys Arg Leu
                405
```

<210> 23436
<211> 193
<212> PRT
<213> A.fumigatus

```
<400> 23436
Arg Phe Gln Trp Cys Asp Leu Ser Lys Thr Asp Ala Val Ser Thr Asn
1               5                   10                  15
Gln Ser Ala Ala His Leu Ser Lys Arg Thr His Arg Phe Phe Asp Ser
            20                  25                  30
Arg Gly Pro Asp Gly Ser Arg Ala Pro Arg Pro Asp Ala Gly Ala Asp
        35                  40                  45
Gly Val Arg Ala Val Ile Gln Gly Gly Gln Val Leu Thr Phe Lys Arg
    50                  55                  60
Asp His His Lys Leu Phe Ser His His Gly Tyr Ile Tyr Thr Met Leu
65                  70                  75                  80
Leu Val Arg Gly Leu Leu Glu Ser Ser Pro Thr Glu Glu Val Leu Val
                85                  90                  95
Thr Gly Ala Gly Asp Gly Val Val Lys Leu Trp Arg Leu Asp Gln Asp
            100                 105                 110
Glu Ala Pro Ser Glu Met Ala Ala Leu Glu Asn Gly Asp Pro Val Leu
        115                 120                 125
Ala Leu Ala Val Asp Gly Ser Phe Leu Tyr Cys Gly Leu Ser Gly Gly
    130                 135                 140
Ala Leu Asn Ile Trp Asn Leu Asp Ser Arg Gln Leu Val Lys Arg Ile
145                 150                 155                 160
Thr Gly His Thr Gly Asp Leu Trp Ala Val Asp Ile Val Gln Gly Leu
                165                 170                 175
Val Val Cys Gly Asp Ser Asn Gly Val Ile Lys Val Cys Ser Trp Leu
            180                 185                 190
Tyr
```

<210> 23437
<211> 79
<212> PRT
<213> A.fumigatus

```
<400> 23437
Cys Trp Ser Val Ser Asp Leu Val Thr Arg Asn Leu Ile Leu Asp Leu
1               5                   10                  15
```

```
Lys Lys Trp Ala Ala Gly Leu Leu Thr Glu Glu Arg Cys Leu Arg Leu
            20                  25                  30
Gln Pro Ala Arg Phe Arg Asp Arg Leu Ile Tyr Pro Ser Gly Gly His
        35                  40                  45
Asp Ile Thr Val Gly Asn Leu Asp Met Thr Gly Gly Val Leu Pro Ala
    50                  55                  60
Glu Arg Thr Ser Pro Arg Pro Leu Thr Gly Lys Ile Glu Asn Ile
65                  70                  75
```

<210> 23438
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23438

```
Arg Thr Leu Ser Asn Glu His Thr Ile Xaa Ile Thr Gln Leu Met Asp
1               5                   10                  15
His Ala Arg Asn His Ile Ser Thr His Arg Gly Thr His Gly Arg Leu
            20                  25                  30
Gly Cys Lys Ile Glu Arg Thr Gln Ala Tyr Glu Gly Gln Ile Thr Thr
        35                  40                  45
Thr Ala Tyr Asp Ile Ile Leu Ser Lys Ile Gln Gln Leu Gln Ser Val
    50                  55                  60
Cys Val
65
```

<210> 23439
<211> 146
<212> PRT
<213> A.fumigatus

<400> 23439

```
His Ser Val Asp Phe Gln Gly Arg Ala Pro Ala Ser Leu Ile Ser Leu
1               5                   10                  15
Val Val Leu Arg Tyr Cys Ser Ser Ala Pro Ala Ala Tyr Leu Arg Ile
            20                  25                  30
Pro Gly Ile Lys Asn Asn Ala His Arg Leu Leu Gly Thr Lys Gln Ala
        35                  40                  45
Cys Leu Phe Arg Asp Lys Tyr Asp Tyr Ile Thr Ser Thr Gly Leu Ser
    50                  55                  60
Ile Tyr Gly Leu Ser Ala Asp Ser Ile Lys Ala Asn Ser Ser Phe Lys
65                  70                  75                  80
Ala Lys Gln Ser Leu Pro Tyr Pro Leu Leu Cys Asp Thr Ala Ser Thr
                85                  90                  95
Leu Ile Ser Ser Leu Gly Phe Lys Lys Thr Pro Arg Gly Thr Thr Arg
            100                 105                 110
Gly Val Phe Ala Val Asp Lys Gln Gly Lys Val Tyr Phe Cys Thr Leu
        115                 120                 125
Glu Gly Gln Met Pro His Gly Lys Leu Leu Arg Asn Leu Ser Arg Arg
    130                 135                 140
Val Thr
```

145

<210> 23440
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23440
Ala Ser Arg Lys His Arg Gly Thr Glu Phe Thr Arg Glu Val Ile Ile
1 5 10 15
Gly Asp Asp Cys Trp Ile Gly Ala Asn Val Thr Ile Leu Ala Gly Val
20 25 30
Thr Ile Gly Ser Gly Cys Ser Ile Gly Ala Gly Ser Val Val Lys Arg
35 40 45
Asp Ile Pro Pro Tyr Ser Ile Ala Val Gly Ser Pro Ala Arg Val Ile
50 55 60
Arg Ser Ala Val
65

<210> 23441
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23441
Leu Phe Xaa His Arg Arg Ile Trp Pro Gln Asn Glu Tyr Leu Asp Leu
1 5 10 15
Gly Ile Tyr Asn Thr Ile Phe Arg Ala Leu Ser His Ile Pro Ser Phe
20 25 30
Leu Ser Pro Ile Ala Tyr Glu Lys Asn Asn Arg Leu Leu Ile Ser Leu
35 40 45
Ala Asn Arg Arg Phe Asp Ser Asn Ile Val Leu Ser Gln Glu Ala Glu
50 55 60

<210> 23442
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23442
Pro Gly Leu Arg Asn Glu Arg Leu Cys Lys Leu Met Phe Ser Leu Thr
1 5 10 15
Lys Pro Gln Leu Thr Gly Leu Val Thr Phe Gln Tyr Leu Leu Trp Ser
20 25 30
Tyr Thr Ser Lys Gln Tyr His Leu Leu Phe Lys Pro Ile Met Met Lys
35 40 45
Asp Gly Ile Ser Val Pro Leu Pro Val Val Met Trp His Arg Ser Leu
50 55 60
Ile Ile Pro Pro His Cys Ser Ser His Arg Asp Cys Ser Cys Ser Cys
65 70 75 80

<210> 23443
<211> 79
<212> PRT
<213> A.fumigatus

<400> 23443
Phe Phe Tyr Cys Thr Asp Pro Ser Ser Pro Ala Val Lys Thr Thr Asp
1 5 10 15
Lys Ser Pro Ile Arg Thr Arg Ser Gly Ala Gly Gln Lys Lys Arg Gly
20 25 30
Thr Lys Glu Ser Asp Glu Gly Phe Ser Thr Val Pro Pro Lys Lys Gly
35 40 45
Ala Lys Pro Gln Thr Lys Glu Glu Leu Glu Lys Phe Pro Asp Val Pro
50 55 60
Asp Val Gln Gly Thr Asn Pro Phe Glu Glu Leu Glu Lys Ala Ala
65 70 75

<210> 23444
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23444
Ser Ile Arg Leu His Pro Gly Val Cys Val Gln Glu Asp Pro Leu Lys
1 5 10 15
Glu Trp Leu Asn Asn Val Pro Ser Leu Ile Asn Pro Cys Thr Ser Ser
20 25 30
Pro Ser Thr Ala Lys Leu Pro Pro Val Glu Thr Val Gln Asn Phe Glu
35 40 45
Trp Lys Lys Lys Tyr Ser Ser Ala Ile Val Arg Ile Pro His
50 55 60

<210> 23445
<211> 94
<212> PRT
<213> A.fumigatus

<400> 23445
Ala Val Arg Val Ala Ala Asp Thr Leu Ala Gly Leu Asp Tyr Ala Gly
1 5 10 15
Asn Ala Ala Asp Val Gly Phe Ala Glu Val Ala Ala Gly Leu Trp Ala
20 25 30
Glu Gln Gln Tyr Thr His Glu Val Ala Gly Pro His Val Glu Asn Ser
35 40 45
Ala Val Thr Phe Ala Val Ala Val Gly Gly Ala Glu Val Ala Ala Glu
50 55 60
Ala Ala Glu Cys Gly Val Asn Leu Leu Pro Phe Leu Gly Leu Ser Val
65 70 75 80
Cys Arg Cys Cys Arg Cys Arg Phe Cys Trp Asp Gly Phe Phe
85 90

<210> 23446
<211> 301
<212> PRT
<213> A.fumigatus

<400> 23446
His His Ile Gln Gln Pro Gln Gln Gln Pro Gln His His Leu Gln Gln
1 5 10 15
Gln Gln Met Ser Gln Gln Ser Ser Gln His Gly Gly Gln Pro Pro His
20 25 30
Gly Tyr Thr Ala Ala Gln Pro Thr Gly Gln Leu Pro Pro Gln Gln Asn
35 40 45
Pro His Gln Gln His Tyr Gln His Ser Pro Thr Pro Pro Gly Tyr Gln
50 55 60
Gln Gln Pro Gly Gln Leu Thr Phe Gln Gln Ser Pro Leu Gln Ala Asn
65 70 75 80
Phe Gln Gln Tyr Asn Pro Gly Gly Ser Val Ser Val Pro Gly Arg Ala
85 90 95
Asn Gly Gly Gln Ser Asn His Gly Tyr Met Pro Gly Ile Pro His Tyr
100 105 110
Ser Gln Ser Gln Pro Thr Gln Val Leu Tyr Glu Arg Ala Arg Met Ala
115 120 125
Ala Ser Ala Lys Ser Ser Pro Ser Ser Arg Lys Ser Gly Leu Pro Ser
130 135 140
Gln Arg Arg Pro Trp Thr Thr Glu Glu Glu Asn Ala Leu Met Ala Gly
145 150 155 160
Leu Asp Arg Val Lys Gly Pro His Trp Ser Gln Ile Leu Ala Met Phe
165 170 175
Gly Pro Gly Gly Thr Ile Ser Glu Ala Leu Lys Asp Arg Asn Gln Val
180 185 190
Gln Leu Lys Asp Lys Ala Arg Asn Leu Lys Leu Phe Phe Leu Lys Ser
195 200 205
Gly Ile Glu Val Pro Tyr Tyr Leu Lys Phe Val Thr Gly Glu Leu Lys
210 215 220
Thr Arg Ala Pro Ala Gln Ala Ala Lys Arg Glu Ala Arg Glu Arg Gln
225 230 235 240
Lys Lys Gln Gly Glu Glu Asp Lys Ala His Val Glu Gly Ile Lys Gly
245 250 255
Met Met Ala Leu Ala Gly Ala His Ser Gln Pro Val Pro Leu Gly His
260 265 270
Gly His Glu Ala Met Ser Ala Ser Pro Ser Leu Pro Asp Thr Gly Ser
275 280 285
His Ser Thr Phe Asp Gln Thr Ala Glu Ser Ser Pro Arg
290 295 300

<210> 23447
<211> 127
<212> PRT
<213> A.fumigatus

<400> 23447
Glu Arg Lys Tyr Phe Asp Ser Gly Asp Tyr Ala Leu Ser Lys Ala Gly
1 5 10 15
Lys Ala Ser Asp Val Gly Val Thr Asn Ile Gly Ser Lys His Pro Val
20 25 30
Pro Glu Asn Ile Pro His Leu Thr Ala Thr Ser Pro Gly Ala Asn Asn
35 40 45
Pro Ala Ala Ala Ser Asn Gly Ser Ser Ala Ser Ser Gln Gly Gln Gln
50 55 60
His His Gly Ser Ile Ser Gly His Pro Gly Ser Ile Gly Phe Gln Ser
65 70 75 80

```
Arg Ser Pro Val Lys Glu Ala Ser Tyr Leu Gln Arg Gly Thr Ser Val
                85                  90                  95
Asp Asp Thr Glu Gly Val Asp Asp Ser Ala Lys Gly Gly Asn Asp Pro
            100                 105                 110
Ser Val Ser Pro Pro Pro Asp Arg Asp Gly Val Pro Ile Arg Arg
        115                 120                 125
```

<210> 23448
<211> 77
<212> PRT
<213> A.fumigatus

<400> 23448

```
His Arg Trp Leu Val Gln Leu Ala Glu Asp Lys Asn Tyr Arg Arg Ile
1               5                   10                  15
Phe Lys Asn Ala Val Leu Leu Asn Ser Ala Leu Tyr Ile Val Lys Leu
            20                  25                  30
Phe Thr Asn Asn Leu Leu Ile Leu Thr Phe Ser Thr Leu Ile Val Ile
        35                  40                  45
Ser Pro Arg Ile Leu Cys Phe Lys Leu Leu Ile Val Ile Asp Lys Gly
    50                  55                  60
Arg Asn Leu Val Leu Ala Tyr Ile Glu Leu Ser Thr Cys
65                  70                  75
```

<210> 23449
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23449

```
Pro Leu Ser Thr Ala Leu Lys Thr Val Ile Tyr Glu Ser Pro Arg Leu
1               5                   10                  15
Thr Phe Ser Leu Tyr Pro Phe Leu Ser Gln Tyr Ile Phe Ser Asn Phe
            20                  25                  30
Asn Val Leu His Gly Gly Gln Lys Gly His Ser Ala Glu Ser Ser Arg
        35                  40                  45
Ser Val Val Glu Pro Arg Arg Ser Ile Cys Gly Ser Glu Asn Pro Val
    50                  55                  60
Leu Glu
65
```

<210> 23450
<211> 302
<212> PRT
<213> A.fumigatus

<400> 23450

```
Asn Asn Phe Pro Pro Arg Leu Ile Gln Pro Thr His Pro Pro Phe Lys
1               5                   10                  15
Ala Leu Lys Glu Arg Leu Met Leu Pro Gly Phe Gly Val His Pro His
            20                  25                  30
Arg Arg Gly Val Val Asp Glu Phe Pro Ser Ser Ala Leu Pro Thr Pro
        35                  40                  45
Ala Glu Ala Thr Ala Ser Gly Met Pro Met Gly His His His His His
    50                  55                  60
His His His His His His His Thr Ser Arg Pro Thr Ala Ser Val Ala
```

```
65                  70                  75                  80
Asn Ser Ala Ala Leu Ser Pro Met Arg Glu Pro Arg Thr Val Val Thr
                85                  90                  95
Ile Glu Pro Val Val Ser Ser Val Ala His Leu Pro Arg His His Leu
            100                 105                 110
Gly Ser Thr Leu Tyr Ile Pro Arg Ile Asp Ile Pro Ser Ala Lys Ala
        115                 120                 125
Pro Leu Glu Ser Ala Lys Phe Gly Tyr Thr Thr Thr Pro Leu Pro Ile
    130                 135                 140
Pro Arg Phe Glu Gly Lys Glu Asn Cys Thr Phe Thr Val Arg Val Pro
145                 150                 155                 160
Arg Phe Arg Ile Asp Ala Gly Arg Arg Glu Glu Ile Cys Ala Arg Arg
                165                 170                 175
Ala Leu Trp Gly Thr Gly Ile Tyr Thr Asp Asp Ser Asp Pro Val Ala
            180                 185                 190
Ala Ala Met His Ser Gly Phe Phe Arg Gly Ala Trp Ser Glu Glu Ile
        195                 200                 205
Asp Val Asp Met Leu Asp Leu Glu Ile Arg Asp Ala Tyr Gln His Ala
    210                 215                 220
Pro Thr Thr Ala Glu Asp Met Gly Leu Thr Gly Asp Arg Pro Arg Ile
225                 230                 235                 240
Pro Pro Val Pro Pro Thr Asp Lys Asp Leu His Ile Thr Leu Leu Ile
                245                 250                 255
Leu Pro Lys Leu Glu Arg Tyr Glu Ser Ser Val Leu Phe Gly Leu Lys
            260                 265                 270
Ser Arg Ser Trp Asp Gly Asn His Asp Gly Met Ser Phe Lys Val Leu
        275                 280                 285
Arg Val Glu Trp Val Asp Glu Gly Val Gly Arg Gly Gly Leu
    290                 295                 300
```

<210> 23451
<211> 150
<212> PRT
<213> A.fumigatus

<400> 23451

```
Gln Arg Ser Arg Arg Val Tyr Thr Glu Ala Ile Gln Pro Ala Thr Met
1               5                   10                  15
Pro Ser Thr Pro His Gln Thr Ser Gly Arg Trp Val Glu Gln Glu Gly
            20                  25                  30
Arg Ile Gln Leu Ala Ile Ser Ala Leu Gln Lys Asn Glu Val Ala Ser
        35                  40                  45
Ile Arg Arg Ala Ala Glu Ile Phe His Val Pro Arg Ser Thr Leu Arg
    50                  55                  60
Gly Arg Leu Asn Gly Cys Gln Cys Arg Val Glu Lys Arg Ala Asn His
65                  70                  75                  80
His Arg Leu Ser Pro Thr Gln Glu Glu Ser Arg Leu Ala Thr Pro His
                85                  90                  95
Ala Leu Arg Gln Ser Gln Lys Gln Ala Ser Leu Val Lys Lys Leu Leu
            100                 105                 110
Lys Gln Arg Ser Gln Ser Thr Ser Thr Thr Ser Lys Leu Ala Ile Gln
        115                 120                 125
Gln Ile Ile Lys Gly Cys Glu Met Ile Met Gln Gly Val Phe Thr Thr
    130                 135                 140
Arg Ala Asp Asp Pro Arg
145                 150
```

<210> 23452
<211> 138
<212> PRT
<213> A.fumigatus

<400> 23452
Ala Gly Arg Ala Phe Trp Asp Ser Cys Phe Glu Met Ile Ser Cys Val
1 5 10 15
Val Ile Leu Leu Leu Ala Ser Leu Ala Ala Ala Leu Ser Ala Val Gln
20 25 30
Phe Pro Asp Asn Ala Asn His Ile Phe Asn Ala Ile His Ser Ser Met
35 40 45
Arg Gln Trp Gly Ser Ser Leu His His Asn Gly Met Ser Phe Phe Leu
50 55 60
Ala Ser Val Pro Ala Gly Thr Gln Leu Tyr His Gly Thr His Gln Arg
65 70 75 80
Asp Arg Val Asn Gly Thr Glu Trp Leu Ala Phe Glu Pro Glu His Ala
85 90 95
Met Val Phe Ala Ala Phe Gly Pro Gly Arg Gly Pro Pro Pro Gly Gly
100 105 110
Pro Asp Ser Pro Asp Tyr Asp Asp Pro Arg Arg Arg Ser Phe Arg Leu
115 120 125
His His Glu Ala Ala Ala Ser Ala Ile Val
130 135

<210> 23453
<211> 219
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (200),(218)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23453
Ile Arg Thr Ile Lys Arg Asp Gly Gly Leu Ile Leu Thr Asp Val Leu
1 5 10 15
Leu Ile Asp Gly Leu Thr Lys Arg Phe Arg Leu Pro Gly Trp Arg Ile
20 25 30
Ala Trp Ile Val Gly Pro Lys Glu Phe Ile Asp Ala Leu Gly Ser Ala
35 40 45
Gly Ser Tyr Leu Asp Gly Gly Ala Asn Val Pro Phe Gln Glu Ala Ala
50 55 60
Ile Pro Met Leu Glu Pro Ser Leu Val Arg Ala Glu Met Lys Ala Leu
65 70 75 80
Gln Arg His Phe Arg Glu Lys Arg Asp Tyr Val Leu Lys Arg Leu His
85 90 95
Glu Ile Gly Phe Arg Val Lys Asp Val Pro Gln Ala Thr Phe Tyr Ile
100 105 110
Trp Leu Asp Leu Thr Ser Leu Glu Pro Pro Leu Pro Lys Glu Ala Asn
115 120 125
Ile Ser Asp Gly Leu Asn Phe Phe Asn Ala Leu Leu Thr Glu Lys Val
130 135 140
Ile Val Ile Pro Gly Ile Phe Phe Asp Leu Asn Pro Ala Lys Arg Arg

```
145                 150                 155                 160
Asp Leu Phe Asp Ser Pro Cys His His Phe Val Arg Leu Ser Tyr Gly
                165                 170                 175
Pro Gln Met Asp Phe Leu Lys Lys Gly Leu Asp Gly Ile Lys Lys Val
            180                 185                 190
Ile Arg Arg Ala Arg Gly Lys Xaa Val Glu Leu Arg Pro His Thr Asp
        195                 200                 205
Pro His Trp Glu Asp Glu Val Ala Leu Xaa Asp
    210                 215
```

<210> 23454
<211> 77
<212> PRT
<213> A.fumigatus

```
<400> 23454
Glu Thr Pro Pro Ala Thr Glu Tyr Arg Val Thr Ser Ile Arg Pro Ser
1               5                   10                  15
Lys Phe Arg Phe Thr Thr Phe Val Thr His Asn Gly Pro Phe Leu Gln
            20                  25                  30
Leu Ile Thr Pro Ser Ser Lys Gly Gly Ile Pro Thr Gly Asp Asn Phe
        35                  40                  45
Ile Gln Ser Ser Ile Asn His Phe Ser Gln Leu Leu Lys Ile His Glu
    50                  55                  60
Gly Gln Asn Leu Pro Pro Asn Thr Leu Pro Pro Gln Ile
65                  70                  75
```

<210> 23455
<211> 78
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(26)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23455
Ser Val Val Leu Val Glu Xaa Pro Leu Ser Phe Gly Leu Thr Leu Ile
1               5                   10                  15
Leu Thr Gly Lys Met Lys Leu Pro Cys Xaa Ile Lys Pro Ser His Arg
            20                  25                  30
Leu Thr Ala Thr Leu Val Ile Ser Ser Phe Gln His Val Glu Thr Cys
        35                  40                  45
Tyr Arg Asn Leu Pro Tyr Glu Ser Gly Ile Ser His Leu His Asn Ile
    50                  55                  60
Met Trp Gln Thr Lys Lys Pro His Leu Gln Arg Ser Ile Glu
65                  70                  75
```

<210> 23456
<211> 274
<212> PRT
<213> A.fumigatus

```
<400> 23456
Trp His Leu Arg Leu Asp Gly Lys Gly Val Phe Lys Gln Gly Leu Leu
```

```
1               5                   10                  15
Ser Leu Arg Thr Lys Leu Gln Gln Arg Tyr Tyr Thr Ser Val Ala Ala
            20                  25                  30
Phe Ser Ala Asp Leu Ala Ser Ile Phe Thr Ser Glu Ile Gly Val Gln
        35                  40                  45
Pro Ala Gly Asp Thr Ala Glu Leu Gln Met Gln Ile Ser Gly Arg Ala
    50                  55                  60
Pro Glu Leu Pro Leu Glu Gln Arg Glu Lys Arg Lys Leu Ala Lys Arg
65                  70                  75                  80
Ile Ile Lys Ala Ile Gln Pro Ala Leu Glu Asp Ala Ile Lys Lys Glu
                85                  90                  95
Ser Glu Leu Asn Arg Lys Pro Phe Glu Lys Glu Leu Lys Glu Leu Asp
            100                 105                 110
Leu Met Phe Glu Asn Ser Val Leu Ser Arg Arg Gly Ser Val Glu Glu
        115                 120                 125
Gly Ser Ala Lys Pro Ala Glu Gly Glu Ala Arg Ile Asp Asn Pro Val
    130                 135                 140
Ser Gly Glu Val Ser Asp Gly Val Gln Glu Lys Val Gly Ser Lys Ala
145                 150                 155                 160
Gly Leu Pro Ala Lys Val Glu Pro Gln Glu Glu Ser Ser Thr Ser Ala
                165                 170                 175
Leu Pro Glu Lys Ala Glu Asp Thr Ala Thr Leu Asp Ala Gly Asn Asp
            180                 185                 190
Arg His Ile Pro Asp Ala Gln Ala Gln Asp Thr Pro Met Thr Asp Ser
        195                 200                 205
Ala Glu Leu Thr Ala Ser Ala Ala Val Thr Glu Pro Glu Asp Gln Ile
    210                 215                 220
Ala Pro Gly Ala Ser Ala Thr Ile Pro Thr Ser Ala Glu Ala Gln Gln
225                 230                 235                 240
Glu Ala Gly Pro Ser Lys Glu Glu Ala Asn Ser Ser Pro Leu Leu Ala
                245                 250                 255
Gln Leu Thr Glu Ser Gln Lys Gly Ser Ser His Ser Cys Ser Pro Arg
            260                 265                 270
Gly Trp
```

<210> 23457
<211> 270
<212> PRT
<213> A.fumigatus

<400> 23457

```
Thr Leu Val Gln Ser Gln Ser Ser Thr Ala Val Ala Cys Ile Gln Trp
1               5                   10                  15
Thr Gln Arg Lys Arg Ser Ser Ala Gly Ser Gly Gly Arg Ile Gly Gly
            20                  25                  30
Leu Ala Gln Gln Cys Ser Ser Gln Asn Leu Lys Ser Thr Lys Leu Lys
        35                  40                  45
Val Pro Phe Ala Phe His Ser Ala Gln Val Asp Pro Ile Leu Glu Ser
    50                  55                  60
Phe Glu Glu Ser Ala Gln Gly Val Ile Phe His Glu Pro Ala Val Pro
65                  70                  75                  80
Phe Val Ser Ala Leu Asn Gly Glu Val Ile Thr Glu Ser Asn Tyr Ser
                85                  90                  95
Val Leu Gly Pro Thr Tyr Met Val Lys His Cys Arg Glu Ala Val Asn
            100                 105                 110
```

```
Phe Leu Gly Ala Leu Glu Ala Thr Arg His Ala Lys Leu Met Asp Asp
        115                 120                 125
Ala Thr Leu Trp Val Glu Val Gly Ser His Pro Ile Cys Ser Gly Met
    130                 135                 140
Ile Lys Ser Thr Phe Gly Pro Gln Ala Thr Thr Val Pro Ser Leu Arg
145                 150                 155                 160
Arg Asp Asp Asp Pro Trp Lys Ile Leu Ser Asn Ser Leu Ser Thr Leu
                165                 170                 175
His Leu Ala Gly Val Glu Leu Asn Trp Lys Glu Phe His Gln Asp Phe
            180                 185                 190
Ser Ser Ala His Glu Val Leu Glu Leu Pro Arg Tyr Gly Trp Asp Leu
        195                 200                 205
Lys Asn Tyr Trp Ile Pro Tyr Thr Asn Asn Phe Cys Leu Thr Lys Gly
    210                 215                 220
Gly Pro Val Thr Ala Glu Val Ser Ala Pro Lys Ser Thr Phe Leu Thr
225                 230                 235                 240
Thr Ala Ala Gln Lys Ile Val Glu Cys Arg Glu Asp Gly Asn Thr Ala
                245                 250                 255
Thr Leu Val Val Glu Asn Asn Ile Ala Glu Pro Glu Leu Asn
            260                 265                 270
```

<210> 23458
<211> 171
<212> PRT
<213> A.fumigatus

<400> 23458

```
Pro Phe Met Lys Ala Asp Trp Val His Tyr Ile Ser Ala Val Lys Cys
1               5                   10                  15
Asn Asp Asn Lys Thr Leu Leu Thr Met Leu Ser Arg Ala Gly Thr Gly
            20                  25                  30
Phe Asp Cys Ala Ser Lys Lys Glu Met Gln Gln Ile Leu Gln Leu Gly
        35                  40                  45
Val Asn Pro Glu Arg Ile Ile Phe Ala Ala Pro Arg Lys Ala Glu Asp
    50                  55                  60
His Ile Asn Tyr Ala His Glu His Gly Ile Asp Lys Ile Val Val Asp
65                  70                  75                  80
Ser Glu Asp Glu Leu Arg Lys Leu Ala Glu Ile Val Pro Ser Ala Thr
                85                  90                  95
Ile Phe Leu Arg Leu Arg Ala Asp Asp Pro Thr Ser Arg Val Arg Leu
            100                 105                 110
Ser Glu Lys Phe Gly Ser Asp Leu Leu Glu Ala Arg Gly Ile Leu Gln
        115                 120                 125
Val Ala Val Asp Leu Ser Val Lys Val Thr Gly Ile Cys Phe His Val
    130                 135                 140
Gly Ser Ala Ala Ser Asp Pro Gly Ala Tyr Val Arg Ser Ile Ala Met
145                 150                 155                 160
Ala Arg Glu Val Tyr Asp Tyr Asn Glu Thr Leu
                165                 170
```

<210> 23459
<211> 162
<212> PRT
<213> A.fumigatus

<400> 23459

```
His Pro Pro Lys Thr Ser Ala Thr Val Cys Ser Leu Pro Ser Val Ser
1               5                  10                  15
Pro His Lys Leu Thr Ser Leu Pro Ala Cys Lys Ile Phe Arg Phe Cys
            20                  25                  30
Ser Glu Pro Cys His Lys Ala Ser Leu Gln Lys His Leu Pro Tyr Cys
        35                  40                  45
Ile Pro Ser Val Ser Leu Arg Glu Ser Lys Ser Leu Ala Val Lys Pro
    50                  55                  60
Arg Cys Pro Pro Trp Val Arg Asp Gln Ala Leu Ser Lys Ile Arg Pro
65                  70                  75                  80
Leu Asp Arg Asp Arg Thr Val Asp Val Leu Ala Ser Tyr Thr Phe Tyr
                85                  90                  95
Phe Asp Pro Arg Asn Phe Thr Thr Phe Arg Met Lys Leu Ser Ser Leu
            100                 105                 110
Thr Asn Thr Leu Ile Ile Phe Ser Leu Asp Ser Asp Ile Arg Phe Ala
        115                 120                 125
Thr Ile Asp Ser Ser Leu Ser Pro Ser Ser Ser Gly His Gly Asn Thr
    130                 135                 140
Ser Ser Ser Ser Pro Thr Thr Ala Ser Ala Asn Pro Arg Gly Ile Gln
145                 150                 155                 160
Trp Leu
```

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<210> 23460
<211> 287
<212> PRT
<213> A.fumigatus

<400> 23460

```
Ser Lys Ala Pro Cys Thr Pro Ala Val Lys Thr Leu Ala Leu His Asp
1               5                  10                  15
Asn Ala Gln Glu Ser Val Ala Ser Ser Leu Pro Gly Ala Thr Ala Gln
            20                  25                  30
Asn His Gln Ser Gln Thr Gly Gln Thr Asn Glu Pro Thr Lys Ser Pro
        35                  40                  45
Ser His Arg Gln Asn Asn Ser Asn Thr Leu Leu Gly Gly Met Ser Pro
    50                  55                  60
Ser Glu Ala Ala Val Gln Trp Pro Leu Asp Arg Val Leu Leu Trp Leu
65                  70                  75                  80
Ala Lys Asn Gly Phe Ser Arg Asp Trp Gln Glu Thr Phe Lys Thr Leu
                85                  90                  95
Gln Ile Glu Gly Ala Asp Phe Leu Asp Ile Gly His Gly Ala Asn Gly
            100                 105                 110
Arg Gly Asn Phe Asn Lys Met His Asn Glu Val Phe Pro Gln Leu Ala
        115                 120                 125
Lys Glu Cys Glu Ala Ser Gly Thr Gly Trp Asp Lys Glu Arg Glu Leu
    130                 135                 140
Gly Glu Gly Lys Arg Met Arg Arg Leu Ile Arg Gln Ile His Asp Asp
145                 150                 155                 160
Glu Ser Phe Asp Val Gly Ile Pro Ala Gln Lys Arg Arg Glu Ser Gln
                165                 170                 175
Ala Pro Ser Glu Gly Ala Pro Asp Thr Ser Pro Lys Leu Ser His Glu
            180                 185                 190
Pro Gln Ser Ala Gly Pro His Ser Gly Thr Ile Glu Asn Ser Pro Asn
        195                 200                 205
Leu Arg Ala Pro Gln Leu Ala Gln Pro His Arg His Ser Val Gln Met
```

```
    210                 215                 220
Arg Ser Val Thr Leu Pro Ile Pro Thr Thr His Asp Ile Ala Ser Ser
225                 230                 235                 240
His Phe Ser His Lys Asp Gly Ile Ser Ser Arg Ser Asp Phe Ser Arg
                245                 250                 255
Ser Val Leu Val Gly Leu Gly Val Asp His Arg Gln Gln Asn Pro Ser
            260                 265                 270
Met Ser Ser Asp Asn Cys Asn Leu Val Ala Pro Phe Arg Ser Tyr
        275                 280                 285
```

<210> 23461
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40),(48)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23461

```
Phe Trp Leu Gly Trp Leu Asn Ser Val Ile Gly Lys Ser Thr Ile Glu
1               5                   10                  15
Ala Ser Asn Asn Pro Ala Gln Thr Asp Arg Leu Phe Leu Ile Leu Arg
            20                  25                  30
Tyr Ile Tyr Arg Met Asp Trp Xaa Met Gln Phe Thr Pro Arg Pro Xaa
        35                  40                  45
Arg Leu Thr Arg Arg Ala Lys Ile Ser Thr Gly Leu Pro Leu Glu Ala
    50                  55                  60
Asn Leu
65
```

<210> 23462
<211> 105
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (95),(104)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23462

```
Val Cys Tyr Thr Ser Leu Gln Asn Leu Lys Asp Ser Lys Gly Ser Phe
1               5                   10                  15
Gly Met Thr Trp Glu Lys Asp Gly Thr Ser Pro Ser Gln His Pro Ser
            20                  25                  30
Asp Ile Glu Ala Cys Gly Thr Pro Asp Ala Ser Lys Ser Asn Asn Asp
        35                  40                  45
Ala Ala Thr Glu Gly Pro Thr Ser Ala Phe Lys Pro Leu Ala Leu Leu
    50                  55                  60
Asp Arg Phe Leu Ala Val Trp Ile Phe Leu Ala Met Ala Ile Gly Ile
65                  70                  75                  80
Ile Leu Gly Asn Phe Val Pro Asn Asn Glu Gln Asn Ser Trp Xaa Lys
                85                  90                  95
Gly Lys Phe Leu Cys Gly Val Xaa Gly
```

100 105

<210> 23463
<211> 324
<212> PRT
<213> A.fumigatus

<400> 23463
Asp Gly Gly Ile Val Arg Ser Ile Val Gly Leu Asp Val Phe Lys Arg
1 5 10 15
Thr Tyr Gly Tyr Gln His Glu Gly Val Tyr Ile Ile Ala Ala Arg Trp
20 25 30
Leu Ser Ala Phe Asn Tyr Ala Thr Leu Leu Gly Ala Ile Ile Gly Ala
35 40 45
Leu Leu Ser Gly Leu Ala Tyr Asp Arg Phe Gly Pro Arg Val Met Ile
50 55 60
Thr Ile Cys Ser Cys Leu Ser Ile Gly Phe Ile Phe Val Gln Phe Phe
65 70 75 80
Ser His Thr Pro Ala Gln Leu Phe Val Gly Glu Leu Val Asn Gly Cys
85 90 95
Ile Ile Ala Phe Tyr Pro Ile Cys Ala Ser Thr Tyr Val Ser Glu Val
100 105 110
Thr Pro Leu Val Leu Arg Gly Phe Val Ala Thr Met Thr Asn Leu Ala
115 120 125
Phe Ser Ile Gly Ser Leu Ile Ala Ser Gly Ile Leu Lys Gly Ala Ala
130 135 140
Ala Met Asp Thr Thr Trp Ser Tyr Lys Ile Pro Ile Ala Ala Gln Trp
145 150 155 160
Ala Leu Pro Thr Val Met Leu Leu Leu Val Ala Phe Val Pro Glu Pro
165 170 175
Pro Tyr Trp Leu Cys Lys His Gly Arg Asp Asp Ala Ala Ile Ile Ser
180 185 190
Leu Arg Arg Leu Thr Thr Ala Pro Ala Ala Glu Val Tyr Val Ala Arg
195 200 205
Lys Leu Ala His Ile Arg Glu Thr Leu Arg Leu Glu Glu Ser Phe Gln
210 215 220
Gly Asp Arg Pro Thr Tyr Arg Glu Cys Leu Arg Gly Pro Asn Leu Arg
225 230 235 240
Arg Leu Val Ile Cys Val Met Ala Tyr Asn Met Gln Ala Phe Thr Gly
245 250 255
Asn Val Phe Phe Ile Asn Tyr Ala Val His Phe Met Glu Val Ala Gly
260 265 270
Leu Asp Ala Ser His Ala Phe Ser Met Asn Ile Gly Leu Thr Ala Ile
275 280 285
Gly Leu Leu Gly Thr Cys Leu Ser Trp Phe Leu Leu Ser Tyr Ile Gly
290 295 300
Arg Arg Thr Met Tyr Leu Phe Gly Cys Val Phe Thr Thr Arg Arg Gln
305 310 315 320
Gly Pro Ala Val

<210> 23464
<211> 241
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (232)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23464
Ser Glu Leu Ala Arg Cys Ser Gln Ser Met Asp Ser Trp Leu Ser Ala
1 5 10 15
Leu Pro Lys Asp Ala Gln Tyr Ile Pro Ala Ser Lys Thr Asn Phe Glu
20 25 30
Asp Gly Glu Asp Val Leu Leu Leu His Gly Ala Met Leu Arg Met Leu
35 40 45
Tyr His Ala Thr Ile Ser Ala Leu Tyr Arg Pro Trp Ala Tyr Ser Arg
50 55 60
Asp Pro Asp Lys Ser Arg Phe Glu Ile Thr Gln Asn Ala Arg Ser Lys
65 70 75 80
Met His Asp Ala Ala Leu Gly Ile Thr His Ile Ile Gln Gly Leu Asn
85 90 95
Gln Leu Asn Leu Thr Arg Phe Leu Pro Gln Ser Gly Val Thr Val Ile
100 105 110
Ile Pro Ala Ala Val Ala His Leu Ser Asn Ile Met Ser Asn Asn Pro
115 120 125
Ala Val Arg Glu Thr Ser Leu Gln His Phe Gln Arg Cys Ile Gln Val
130 135 140
Leu Arg Gly Leu Arg Asp Leu Tyr Pro Ala Ala Asp Met Glu Val Ala
145 150 155 160
Asn Ile Glu Ala Ala Val Lys Val Gln Ser Asp Ser Val Ser Thr Phe
165 170 175
Leu Lys Ile Met Glu Tyr Ser Asn Val Ser Ile Asp Gln Leu Gln Pro
180 185 190
Pro Glu Pro Pro Leu His Lys Gln Ser Ile Asp Ser Asn Met His Thr
195 200 205
Ala Cys Ser Pro Glu Gly Ser Ser Pro Asp Arg Arg Gly Ser Phe Val
210 215 220
Gly Ala Thr Asp Ala Gln Pro Xaa Glu His Arg Thr Gly Ser Leu Gln
225 230 235 240
Thr

<210> 23465
<211> 87
<212> PRT
<213> A.fumigatus

<400> 23465
Arg Gly Gln Leu Arg Glu Arg Glu Phe Arg Ala Ser Leu Leu Phe Ser
1 5 10 15
Arg Val Pro Phe Leu Leu Pro Val Pro Leu Phe Ala Pro Glu Thr Asp
20 25 30
Phe Asn Lys Ser His Met His His Val Ser Asp Gln Gly Gly Asp Ala
35 40 45
Ala Arg Tyr Ser Arg Asn Gly Asp Lys Tyr Val Phe Leu Leu Pro Gly
50 55 60
Gly Val Leu Gly Gln Gly Ala Ala Leu Tyr Pro Arg Gln Pro Arg Val
65 70 75 80
Arg Arg Leu Arg Arg Leu Ser

85

<210> 23466
<211> 180
<212> PRT
<213> A.fumigatus

<400> 23466
Glu Arg Cys Pro Ser Ser Pro Ala Ile Glu Asp Ala Thr Ala Ser Ala
1 5 10 15
Gly Ser Arg Arg Thr Ala Pro Arg Ala Arg Ser Pro Lys Ser Trp Ala
20 25 30
Arg Ile Arg Thr Cys Thr Arg Pro Met Ser Thr Ala Ser His Cys Arg
35 40 45
Thr Thr Thr Ala Val Leu Ala Ala Pro Pro Ser Ser Ser Ser Ser Ser
50 55 60
Tyr Lys Pro Pro Thr Pro Pro Asn Ser Leu Arg Arg Pro Arg Thr Ser
65 70 75 80
Ser Thr Val Ser Gln Pro Thr Ser Ser Lys Thr Cys Pro Gly Ser Arg
85 90 95
Leu Pro Cys Ser Ser Ala Ser Arg Pro Arg Cys Lys Arg Gln Ala Thr
100 105 110
Thr Ser Ser Arg Asn Thr Ser Cys Ala Pro Arg Ala Trp Thr Leu Arg
115 120 125
Ser Ser Ala Ala Arg Ile Ser Cys Thr Gly Cys Arg Gly Thr Pro Met
130 135 140
Phe His Ser Ser Arg Arg Thr Gly Thr Gly Cys Ile Pro Asp Lys Ser
145 150 155 160
Ser Cys Asp Phe Met Ile Leu Pro Leu Tyr Pro Tyr Leu Met Ala Ile
165 170 175
Thr Phe Val Pro
180

<210> 23467
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23467
Ser Asp Val Leu Pro Ala Arg Gln Leu Lys Thr Leu Arg Pro Leu Arg
1 5 10 15
Glu Val Gly Glu Arg Leu His Glu Arg Gly Arg Arg Ser Pro Gly Arg
20 25 30
Ala Ser Gly Arg Ala Arg Gly Gln Cys Leu Arg Arg Arg Ile Ala Glu
35 40 45
Pro Arg Arg Pro Cys Trp Leu Arg Arg His Arg Leu Pro Ala Ala Val
50 55 60
Thr Ser Arg Gln Pro Leu Arg Thr Arg Cys Ala Val Pro Glu Arg Pro
65 70 75 80
Arg Gln Ser Arg Ser Pro Arg Pro Gln Lys Pro Ala Pro Val Arg Gly
85 90 95
Ser Pro Val Pro Pro Arg His Ala Arg Asp Ala Ser Asp Arg Gln Gln
100 105 110
Gln Ala Ala Glu Thr Arg Pro Ala His Arg Gly Arg Gly Pro Cys Ala
115 120 125
Arg Gln Arg Gln Gly

130

<210> 23468
<211> 152
<212> PRT
<213> A.fumigatus

<400> 23468
Arg Arg Tyr Gly Leu Cys Gly Lys Ser Glu Asn Gly Ser Thr Ser Glu
1 5 10 15
Val Ala Glu Val Leu Gly Ala His Pro Asp Val His Glu Ala Asn Val
20 25 30
Tyr Gly Val Ala Leu Pro Asn His Asp Gly Arg Ala Gly Cys Ala Ala
35 40 45
Ile Val Phe Gln Gln Gln Leu Gln Ala Ala Asn Pro Ser Glu Leu Ala
50 55 60
Ala Pro Ser Gln Asn Val Leu Asp Ser Leu Ala Ala His Val Leu Lys
65 70 75 80
Asn Leu Pro Arg Phe Ala Ala Pro Leu Phe Leu Arg Val Thr Pro Glu
85 90 95
Met Gln Ala Thr Gly Asn Asn Lys Gln Gln Lys His Val Leu Arg Thr
100 105 110
Glu Gly Val Asp Pro Ala Leu Val Ser Gly Lys Asp Lys Leu Tyr Trp
115 120 125
Leu Gln Gly Asn Thr Tyr Val Pro Phe Glu Gln Lys Asp Trp Asn Arg
130 135 140
Leu His Ser Gly Gln Val Lys Leu
145 150

<210> 23469
<211> 83
<212> PRT
<213> A.fumigatus

<400> 23469
Leu Ser Ser Ser Met Arg Thr Pro Ala Met Val Leu Arg Thr Met Asp
1 5 10 15
Thr Gly Ser Arg Ile Cys Glu Phe Ser Leu Ala Ala Val Ile His Thr
20 25 30
Ile Arg Arg Ser His Glu Val Asn Ala Asn Tyr Gly Thr Ala Gln Asp
35 40 45
Leu Arg Tyr Leu Ala Asn Ala Leu His Ala Arg Gly Met Tyr Leu Met
50 55 60
Val Asp Val Val Ala Asn His Met Val Arg Arg Leu Leu Glu Leu Tyr
65 70 75 80
Ile Ile Ile

<210> 23470
<211> 81
<212> PRT
<213> A.fumigatus

<400> 23470
Leu Val Lys Gly Tyr Asn Gly Ala Gly Asn Ser Val Asn Tyr Gly Val
1 5 10 15

Phe Thr Pro Phe Asp Ser Ala Thr Tyr Phe His Pro Tyr Cys Leu Ile
20 25 30
Thr Asp Tyr Asn Asn Gln Thr Ala Val Asp Asp Cys Trp Leu Gly Asp
35 40 45
Thr Thr Val Ser Leu Pro Asp Leu Asp Thr Thr Ser Thr Ala Val Arg
50 55 60
Ser Ile Trp Tyr Asp Trp Val Lys Gly Leu Val Ala Asn Tyr Ser Ser
65 70 75 80
Gln

<210> 23471
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23471
Met Ile Leu Thr Glu Ile Val Asp Gly Leu Arg Ile Asp Thr Val Lys
1 5 10 15
His Val Glu Lys Asp Phe Trp Pro Gly Tyr Asn Asp Ala Ala Gly Val
20 25 30
Tyr Cys Val Gly Glu Val Phe Ser Gly Asp Pro Gln Tyr Thr Cys Pro
35 40 45
Tyr Gln Asn Tyr Leu Asp Gly Val Leu Asn Tyr Pro Met Tyr Ala Leu
50 55 60

<210> 23472
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23472
Phe Pro Tyr Gly Phe Asp Pro Asp Glu Ser Arg Tyr Tyr Gln Leu Leu
1 5 10 15
Tyr Ala Phe Gln Ser Thr Ser Gly Ser Ile Ser Asn Leu Tyr Asn Met
20 25 30
Ile Ser Ser Val Ala Ser Asp Cys Ala Asp Pro Thr Leu Leu Gly Asn
35 40 45
Phe Ile Glu Asn His Asp Asn Pro Arg Phe Ala Ser
50 55 60

<210> 23473
<211> 222
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23473
Val Pro Phe Xaa Pro Val Val Ser Thr Ser Ala Met Arg Glu Ser Ile
1 5 10 15
Leu Ser Val Leu Thr Phe Phe Ser Leu Leu Leu Ile Val Gln Ala Arg
20 25 30

```
Asp Asp Gly Arg Met Lys Tyr Asn Phe Asn Ser Gly Trp Lys Val Leu
        35                  40                  45
Val Gly Asn Pro Ala Ser Ala Gln Ser Pro Ser Phe Asn Asp Asn Asp
    50                  55                  60
Trp Lys Asp Val Thr Leu Pro His Ala Trp Asn Glu Asp Asp Ala Phe
65                  70                  75                  80
Arg Val Asp Ile Ala Asn Pro Ser Thr Gly Ile Ala Trp Tyr Arg Lys
                85                  90                  95
His Phe Asp Leu Pro Ala Thr Ser Arg Asn Lys Lys Val Phe Leu Glu
            100                 105                 110
Phe Glu Gly Ile Arg His Ala Gly Glu Phe Tyr Leu Asn Gly Lys Trp
        115                 120                 125
Ile Gly Arg Ser Glu Asn Gly Val Met Ala Phe Gly Phe Asp Val Ser
    130                 135                 140
Asp Ile Thr Leu Tyr Asn Gln Thr Asn Val Leu Ala Ala Gln Ile Asp
145                 150                 155                 160
Asn Ser Trp Thr Tyr Arg Glu Lys Ala Thr Ser Thr Pro Tyr Gln Trp
                165                 170                 175
Asn Asp Lys Asn Phe Tyr Ala Asn Tyr Gly Gly Ile Asn Lys Asn Val
            180                 185                 190
Phe Leu His Val Thr Asp Arg Leu Tyr Gln Thr Leu Pro Leu Tyr Ser
        195                 200                 205
Asn Leu Gln Ser Phe Thr Ala Arg Ala Gly Arg Ile Arg Asp
    210                 215                 220
```

<210> 23474
<211> 110
<212> PRT
<213> A.fumigatus

<400> 23474

```
Arg His Phe Pro His Ala Pro Val Leu Thr Ile Cys Ser Tyr Thr Glu
1               5                   10                  15
Asp Gln Met Arg Ala Val Gln Ile Ala His Arg Glu Ala Lys Asn Trp
            20                  25                  30
Ser Asp Trp Val Ala Leu Gly Thr Val Arg Val Leu Arg Trp Gly Met
        35                  40                  45
Asp Phe Val Thr Gly Tyr Arg His Pro Lys Pro Gly Gln Glu His Asp
    50                  55                  60
Ala Lys Phe Arg Met Thr Glu Gln Lys Trp Leu Thr Arg Phe Ile Phe
65                  70                  75                  80
Leu Glu Ser Val Ala Gly Val Pro Gly Met Val Gly Gly Met Leu Arg
                85                  90                  95
His Leu Arg Ser Leu Arg Arg Met Lys Arg Asp Asn Gly Trp
            100                 105                 110
```

<210> 23475
<211> 134
<212> PRT
<213> A.fumigatus

<400> 23475

```
Ser Ser Phe Pro Gln Phe Thr Leu Leu Leu Thr Ile Ala Arg Ile Glu
1               5                   10                  15
Thr Leu Leu Glu Glu Ala Tyr Asn Glu Arg Met His Leu Leu Thr Phe
            20                  25                  30
```

```
Leu Lys Leu Ala Glu Pro Gly Trp Phe Met Arg Leu Met Val Leu Gly
        35                  40                  45
Ala Gln Gly Val Phe Phe Asn Gly Phe Phe Leu Ser Tyr Leu Ile Ser
    50                  55                  60
Pro Arg Thr Cys His Arg Phe Val Gly Tyr Leu Glu Glu Glu Pro Val
65                  70                  75                  80
Ile Thr Tyr Thr Pro Ala Ile Gln Asp Ile Glu Thr Gly Lys Leu Pro
                85                  90                  95
Asp Trp Val Lys Ile Gly Cys Pro Pro Ile Phe Pro Val Pro Phe Trp
            100                 105                 110
Glu Ile Cys Pro Arg Gly Leu Arg Lys Lys Lys Thr Thr Phe Gly Trp
        115                 120                 125
Leu Pro Ala Gly Ala Glu
    130
```

<210> 23476
<211> 84
<212> PRT
<213> A.fumigatus

```
<400> 23476
Arg Arg Thr Ala Glu Ser Ile Val Arg Ile Asp Arg Glu Asn Leu Glu
1               5                   10                  15
Ala Ala Asn Phe Ser Ser Gly Leu Ser Leu Thr Met Leu Asn Gly Gln
            20                  25                  30
Pro Met Thr Gly Glu Ser Tyr Thr Ser Trp Gly Met Thr Gln Glu Glu
        35                  40                  45
Leu Asp His Pro Trp Trp Gly Asn Pro Gln Val Ile Asn Pro Ala Lys
    50                  55                  60
Pro Leu Ala Gln Thr Gly Lys Met Gly Lys Pro Arg Ser Lys Thr Ala
65                  70                  75                  80
Lys Thr Leu Gly
```

<210> 23477
<211> 120
<212> PRT
<213> A.fumigatus

```
<400> 23477
Asn Phe Leu Glu Phe Tyr Pro Cys Ser Leu Asn Asp Leu Thr Leu Ile
1               5                   10                  15
Asp Tyr Leu His Val Thr Lys Arg Phe Gly Ile Val Ala Val Ala Gln
            20                  25                  30
Leu Pro Thr His Phe Val Leu Ala Ile Lys Ser Arg Tyr Asn Pro Leu
        35                  40                  45
Ala Leu Leu Phe Asn Thr Ser Tyr Glu Arg Leu Leu Pro Trp His Arg
    50                  55                  60
Ile Ser Gly Arg Leu Ile Phe Leu Leu Ile Val Val His Ala Thr Leu
65                  70                  75                  80
Tyr Leu Asn Tyr Phe Ile Gln Thr Ala Thr Leu Gln Glu His Leu Ala
                85                  90                  95
Ser Leu Lys Ile Ile Leu Gly Ile Ala Ser Phe Met Ser Leu Phe Ala
            100                 105                 110
Met Met Ser Thr Ser Ile Glu Gly
        115                 120
```

<210> 23478
<211> 114
<212> PRT
<213> A.fumigatus

<400> 23478
Glu Pro Gln Ser Gln Ser Glu Thr Leu Asn Asp Asn Ala Asn Glu Asn
1 5 10 15
His Gly Gln Ser Thr Thr Asn Lys Asp Gly Ser Lys Lys Arg Lys Lys
20 25 30
Leu Pro Ala Val Met Glu Arg Asp Glu Gly Gly Asp Val Glu Ser His
35 40 45
Thr Thr Ala Arg Thr Pro Thr Lys Ser Ile Gln Thr Pro Thr Lys Pro
50 55 60
Ser Ser Val Gly Thr Pro Val Pro Ser Ser Ala Lys Asn Ser Ile Gly
65 70 75 80
Ala Lys Thr Pro Thr Ser Ala Ile Thr Arg Pro Ser His Asp Glu Met
85 90 95
His Pro Ser Lys Leu His Gln Ser Ile Arg His Ala Ala Gly Lys Thr
100 105 110
Asn Val

<210> 23479
<211> 89
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12),(14),(21),(48)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23479
Cys Arg Gly Gln Ile Tyr Leu Arg Tyr Ile Ala Xaa Cys Xaa Tyr Asn
1 5 10 15
Pro Pro Thr Ile Xaa Arg Gln Glu Thr Thr Ala Asn Ala Ile His Lys
20 25 30
Ile Tyr Arg Asn Pro Val Ile Pro Leu Ala Ile Pro Pro Cys Lys Xaa
35 40 45
Cys Thr Ala Ser Leu Ser Ser Leu Ser Ser Leu Leu Phe Ser Leu Thr
50 55 60
Arg Thr Asn Leu Asn Gln Val Pro Ser Thr Ala Ala Pro Ala Cys Asn
65 70 75 80
Pro Ile Gln Ile Pro Ser Ala Ser Arg
85

<210> 23480
<211> 199
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (182)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23480

```
Asp Gly Ser Phe Gly Phe Thr Asn Phe Phe Pro Thr Leu Thr Ser Ser
1               5                  10                  15
Leu Gly Tyr Ser His Thr Ile Ser Leu Leu Leu Ala Ala Pro Pro Phe
            20                  25                  30
Ile Phe Met Thr Leu Tyr Ser Phe Leu His Ser Leu Leu Ser Asp Arg
        35                  40                  45
Leu Gln Ser Arg Phe Trp Phe Phe Ile Tyr Pro Ile Pro Ile Ala Ile
    50                  55                  60
Ala Gly Leu Leu Leu Phe Met Thr Thr Asp Ser Leu Ala Ala Lys Tyr
65                  70                  75                  80
Val Ala Thr Phe Leu Met Met Phe Cys Val Cys Met Asn Gly Thr Thr
                85                  90                  95
Leu Ser Trp Ala Ala Ser Ser Met Pro Arg Pro Pro Ala Lys Arg Ala
            100                 105                 110
Val Ala Tyr Ala Phe Met Asn Gly Val Gly Asn Thr Thr Gly Ile Trp
        115                 120                 125
Thr Pro Phe Thr Tyr Arg Asp Gln Asp Trp Pro Tyr Tyr Arg Leu Ala
    130                 135                 140
Leu Gly Ile Cys Ile Gly Leu Gln Ala Gly Ala Ala Val Leu Gly Thr
145                 150                 155                 160
Trp Leu Arg Phe Val Leu Val Arg Glu Asn Lys Arg Leu Glu Arg Glu
                165                 170                 175
Glu Arg Glu Ala Val Xaa Gly Leu His Gly Gly Ile Ala Ser Gly Ile
            180                 185                 190
Thr Gly Phe Arg Tyr Ile Leu
        195
```

<210> 23481
<211> 213
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (206)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23481

```
Ser Pro Met Val Ile Arg Val Ser Val Ala Ser Arg Gly Glu Asp Gly
1               5                  10                  15
Ser Thr Val Lys Arg Val Val Leu Thr Ser Ser Phe Ala Ser Val Ile
            20                  25                  30
Asp Ile Ser Lys Asn Pro Gly Pro Asp Phe Thr Tyr Thr Gly Ala His
        35                  40                  45
Trp Asn Pro Ile Thr Tyr Glu Glu Ser Val Asp Pro Ala Thr Ser Ala
    50                  55                  60
Val Val Ala Tyr Arg Gly Ser Lys Lys Phe Ala Glu Leu Glu Ala Trp
65                  70                  75                  80
Asn Phe Met Asp Arg Glu Gly Pro Pro Leu Asp Leu Val Thr Leu Cys
                85                  90                  95
Pro Pro Met Val Phe Gly Pro Ile Val His Pro Val Ala Ser Ile Ala
            100                 105                 110
Gln Leu Asn Glu Ser Asn Ala Val Leu Trp Ser Val Ala Ala Gly Ala
```

```
        115                 120                 125
Asp Pro Leu Pro Ala Ala Arg Val Ser Ala Trp Ile Asp Val Arg Asp
    130                 135                 140
Leu Ala Glu Ala His Val Gln Ala Leu Leu Thr Pro Glu Ala Gly Gly
145                 150                 155                 160
Lys Arg Tyr Val Pro Ala Ser Gly Glu Pro Phe Cys Tyr Glu Tyr Ala
                165                 170                 175
Ala Asp Ile Ile Lys Glu Lys Phe Leu Trp Ala Arg Glu Thr Val Thr
            180                 185                 190
Thr Asn Tyr Glu Ala Gly Lys Lys Ala Gly Pro Thr Tyr Xaa Leu Asp
        195                 200                 205
Gly Ala His Ser Asp
    210
```

<210> 23482
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23482

```
Ala Phe His Gly Xaa Asn Lys Pro Asn Gln Ile Ile Ala Val Ala Ala
1               5                   10                  15
Leu Leu Val Ala Pro Val Leu Ala Ala Pro Thr Glu Phe Asp Thr Arg
            20                  25                  30
Ala Cys Asp Tyr Thr Cys Gly Ser Asn Cys Tyr Ser Ala Ser Ala Val
        35                  40                  45
Arg Ala Ala Gln Glu Ala Gly Tyr Glu Leu Tyr Ser Ser Asp Glu Thr
    50                  55                  60
Val Gly Ser Asn Asn Tyr Pro His Lys Tyr Asn Asn Tyr Glu Gly Phe
65                  70                  75                  80
Asp Phe Pro Val Ser Ser Pro Tyr Tyr Glu Trp Pro Ile Leu Ser Ser
                85                  90                  95
Gly Lys Ile Tyr Ser Gly Gly Ser Pro Gly Ala Asp Arg Val Val Phe
            100                 105                 110
Asn Ser Lys Asp Glu Leu Ala Gly Leu Ile Thr His Thr Gly Ala Ser
        115                 120                 125
Gly Asn Asn Phe Val Ala Cys Thr
    130                 135
```

<210> 23483
<211> 413
<212> PRT
<213> A.fumigatus

<400> 23483

```
Trp Leu Glu Tyr Arg Val Gly Glu Leu Ala Arg Tyr Pro Val His Trp
1               5                   10                  15
Val Pro Pro Lys Pro Val Asn Ser Gly Trp Ser Gly Ser Met Gly Glu
            20                  25                  30
Ile Gly Trp Gly Asp Thr Gly Leu Ala Glu Ala Ala Asn Trp Asp Ile
        35                  40                  45
```

```
Phe Thr Glu Phe Glu Trp Gly Gly Glu Ser Thr Leu Trp Arg Ala Ile
    50                  55                  60
Thr Ser Lys Phe Gly Gly Gly Lys Ser Asp Glu Gln Lys Pro Ser Ser
65                  70                  75                  80
Ser Leu Gln Val Glu Val Ser Thr Arg Met Arg Ala Ser Thr Leu Gly
                85                  90                  95
Ile Gln Leu Gln Glu Gly Leu Val Ile Asp Asn Gln Leu Leu Ser Ala
            100                 105                 110
Pro Asp Val Pro Ala Lys Arg Met Ile Arg Phe Lys Leu Pro Ser Asp
        115                 120                 125
Met Ser Tyr Arg Cys Gly Asp Tyr Leu Ala Val Leu Pro Val Asn Pro
    130                 135                 140
Ser Ser Val Val Arg Arg Ala Ile Arg Arg Phe Asp Leu Pro Trp Asp
145                 150                 155                 160
Ala Met Leu Thr Ile Arg Lys Pro Ser Gln Ala Pro Lys Gly Ser Thr
                165                 170                 175
Ser Ile Pro Leu Asp Thr Pro Ile Ser Ala Phe Glu Leu Leu Ser Thr
            180                 185                 190
Tyr Val Glu Leu Ser Gln Pro Ala Ser Lys Arg Asp Leu Thr Ala Leu
        195                 200                 205
Ala Asp Ala Ala Ile Thr Asp Ala Asp Ala Gln Ala Glu Leu Arg Tyr
    210                 215                 220
Leu Ala Ser Ser Pro Thr Arg Phe Thr Glu Glu Ile Val Lys Lys Arg
225                 230                 235                 240
Met Ser Pro Leu Asp Leu Leu Ile Arg Tyr Pro Ser Ile Lys Leu Pro
                245                 250                 255
Val Gly Asp Phe Leu Ala Met Leu Pro Pro Met Arg Val Arg Gln Tyr
            260                 265                 270
Ser Ile Ser Ser Ser Pro Leu Ala Asp Pro Ser Glu Cys Ser Ile Thr
        275                 280                 285
Phe Ser Val Leu Asn Ala Pro Ala Leu Ala Ala Ala Ser Leu Pro Pro
    290                 295                 300
Ala Glu Arg Ala Glu Ala Glu Gln Tyr Met Gly Val Ala Ser Thr Tyr
305                 310                 315                 320
Leu Ser Glu Leu Lys Pro Gly Glu Arg Ala His Ile Ala Val Arg Pro
                325                 330                 335
Ser His Ser Gly Phe Lys Pro Pro Met Asp Leu Lys Ala Pro Met Ile
            340                 345                 350
Met Ala Cys Ala Gly Ser Gly Leu Ala Pro Phe Arg Gly Cys Ile Met
        355                 360                 365
Asp Arg Ala Glu Lys Ile Arg Gly Arg Arg Ile Ser Val Gly Ala Asp
    370                 375                 380
Gly Gln Leu Pro Asp Val Glu Gln Pro Ala Lys Ala Ile Leu Tyr Val
385                 390                 395                 400
Gly Cys Arg Asn Lys Gly Lys Asp Asp Ile His Ala Thr
                405                 410
```

<210> 23484
<211> 96
<212> PRT
<213> A.fumigatus

<400> 23484

```
Ile Pro Arg Val Glu Ala Arg Ile Leu Val Leu Thr Ser Thr Trp Arg
1               5                   10                  15
Leu Asp Asp Gly Phe Cys Ser Ser Asp Phe Pro Pro Pro Asn Leu Asp
```

```
            20                  25                  30
Val Ile Ala Arg His Asn Val Asp Ser Pro Pro His Ser Asn Ser Val
        35                  40                  45
Lys Met Ser Gln Leu Ala Ala Ser Ala Asn Pro Val Ser Pro His Pro
    50                  55                  60
Ile Ser Pro Met Leu Pro Asp His Pro Glu Leu Thr Gly Phe Gly Gly
65                  70                  75                  80
Thr Gln Trp Thr Gly Tyr Leu Ala Asn Ser Pro Thr Leu Tyr Ser Ser
                85                  90                  95
```

<210> 23485
<211> 169
<212> PRT
<213> A.fumigatus

<400> 23485

```
Glu Ala Leu Pro Cys Ala Pro Ala Cys Thr Leu Asp Asp Asp Leu Asp
1               5                   10                  15
Asp Ile Pro Lys Tyr Asp Glu Thr His Pro Ser Leu Asp Ser Ser Ile
            20                  25                  30
Lys Asp Val Glu Gly Lys Pro Ala Thr Asp Asp Ser Gln Ala Ser Gln
        35                  40                  45
Leu Phe Lys Glu Asn Ser Glu His Arg Lys Arg Glu Ser Gln Gly Ser
    50                  55                  60
Asn Asp Ser Gln Ala Thr Pro Val Pro His Glu Arg Ser Lys Glu Val
65                  70                  75                  80
Val Asp Gly Pro His Asn Thr Asp Asp Gln Glu Leu Ala Gly Pro Lys
                85                  90                  95
Met Ala Ala Ile Thr Glu Ser Leu Arg Arg Pro Val Thr Pro Asp Met
            100                 105                 110
Asn Glu Pro Ala Ser Gly Pro Cys Thr Pro Asp Ser Val Ile Arg His
        115                 120                 125
Pro Ile Asp Glu Glu Asp Asp Ser Gln Thr Ser Ser Asp Glu Ser
    130                 135                 140
Val Pro Glu Pro Val Ala Thr Val Lys Ala Pro Asn Gly Leu Lys Thr
145                 150                 155                 160
Arg Pro Ser Leu Thr Pro Ala Asp Val
                165
```

<210> 23486
<211> 110
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (55)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23486

```
Gly Arg Ile Thr Ser Cys Val Ser Leu Pro Asp Ile Met Ile Lys Pro
1               5                   10                  15
Phe Phe Pro Gln Val Pro Gly Ser Leu Phe Arg Thr Val Thr Val Leu
            20                  25                  30
Ile Thr Pro Thr Ile Thr His Cys Ser Leu Ala Thr Val Ile Val Leu
        35                  40                  45
```

```
Gly Val Arg Val Arg Leu Xaa Gln Ser Leu Pro Pro Arg Phe Arg Val
    50                  55                  60
Asp Val Arg Ile Lys Glu Gly Thr His Ser Thr Ala Asp Glu Val Asn
65                  70                  75                  80
Lys Gln Leu Gly Asp Lys Glu Arg Val Ala Ala Ala Leu Glu Asn Gly
                85                  90                  95
Thr Leu Met Gly Val Ile Ala Lys Met Leu Glu Thr Cys Gln
            100                 105                 110
```

<210> 23487
<211> 116
<212> PRT
<213> A.fumigatus

<400> 23487

```
Arg Gly His Val Leu Ser Asp Gly Pro Ile Ala Gly Thr Pro Leu Tyr
1               5                   10                  15
Thr Val Gln Gly Leu Ile Pro Val Ile Asp Ser Phe Gly Phe Glu Thr
            20                  25                  30
Asp Leu Arg Ile His Thr Gln Gly Gln Ala Ala Val Ser Leu Val Phe
        35                  40                  45
Asp Arg Trp Ser Val Val Pro Gly Asp Pro Leu Asp Arg Glu Val Lys
    50                  55                  60
Thr Lys Pro Leu Glu Met Ala Pro Ala Met Ala Thr Ala Arg Asp Phe
65                  70                  75                  80
Val Leu Lys Thr Arg Arg Arg Lys Gly Leu Ala Glu Asp Val Thr Val
                85                  90                  95
Ser Lys Phe Leu Glu Pro Glu Leu Trp Arg Gly Leu Lys Glu Ser Gly
            100                 105                 110
Val Leu Asp Ser
        115
```

<210> 23488
<211> 188
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (171)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23488

```
Asp Ala Asp Leu Pro Pro Arg Gly Glu Asp Arg Ser Lys Asp Ala Ser
1               5                   10                  15
Thr Phe Ile Phe Lys Pro Glu Asp Phe Val Thr Val Ser Val Arg Phe
            20                  25                  30
Thr Arg Val Gly Tyr Ala Gln Leu Lys Ser Gln Asp Phe Pro Ala Pro
        35                  40                  45
Lys Ser Trp Ile Gly Lys Leu Pro Pro Arg Asn Asp Arg Ile Ala Phe
    50                  55                  60
Asp Arg Ala Glu Val Gly Met Lys Leu Ser Cys Gly Phe Glu Met Leu
65                  70                  75                  80
Leu Thr Asp Pro Gln Asn Gln Asp Lys Ala Ser Val Arg Glu Met Lys
                85                  90                  95
Leu Leu Leu Glu Asp Val Asp Ser Gly Asp Glu Arg Leu Pro Thr Asp
```

```
            100                 105                 110
Glu Glu Ile Ser Arg Trp Asp Lys Arg Gln Asp Asp Glu Lys Trp Leu
        115                 120                 125
Asp Ile Ser Phe Glu Asp Leu Asp Arg Glu Leu Lys Gly Lys Asp Lys
    130                 135                 140
Ser Lys Ala Ser Asp Gly Gln Ala Arg Gly Ala Phe Gly Asp Ala Thr
145                 150                 155                 160
Ala Gln Glu Asn Leu Gln Arg Ile Val Ala Xaa Phe Glu Lys Phe Leu
                165                 170                 175
Asn Asp Asp Ser Ala Gly Phe Glu Ser Ala Asp Phe
            180                 185
```

<210> 23489
<211> 127
<212> PRT
<213> A.fumigatus

<400> 23489

```
Val Gln Arg Pro Pro Met Asn Asp Cys Ala Cys Leu Leu Thr His Phe
1               5                   10                  15
Ser Asp Ile Gly Gly Gly Gly Tyr Gly Gln Asn Ile Gly Tyr Gly Val
            20                  25                  30
Ser Ala Asp Glu Ile Gly Val Met Ile Thr Asn Leu Met Tyr Asn Asp
        35                  40                  45
Glu Phe Gly Tyr Tyr Asp Gly Leu Tyr Gly Gln Ala Asn Pro Asp Met
    50                  55                  60
Thr Tyr Phe Glu Lys Trp Gly His Phe Ser Gln Ile Val Trp Lys Ser
65                  70                  75                  80
Ser Val Ser Val Gly Cys Ala Thr Val Val Cys Asn Ser Leu Gly Asn
                85                  90                  95
Val Asp Ser Ser Gln Pro Ser Pro Phe Thr Val Cys Asn Tyr Tyr Pro
            100                 105                 110
Pro Gly Lys Cys Asp Gln Ser Leu Ser Leu Glu Val Cys Arg Phe
        115                 120                 125
```

<210> 23490
<211> 71
<212> PRT
<213> A.fumigatus

<400> 23490

```
Asp His Ile Val Gln Trp His Pro Thr Val Leu Ala Arg Met Ala Leu
1               5                   10                  15
Val Pro Gln Arg Ser Ile Asn Ala Tyr Ser Lys Asp Ser Thr Ala Ala
            20                  25                  30
Ser Ala Asp Gly Thr Tyr Lys Asp Gly Asp Leu Val Ile Arg Phe Phe
        35                  40                  45
Gly Cys Asp Ser Asp Pro Lys Arg Thr Cys Ala His Ser Ser Pro Arg
    50                  55                  60
Pro Thr Asn Pro Ile His Pro
65                  70
```

<210> 23491
<211> 152
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23491
Xaa Arg Val Arg Val Leu Pro Gly Pro Val Gly Glu Glu Ala Met Ala
1 5 10 15
Ser His Pro His Ser Thr Tyr Phe Phe His Leu Asp Ala His Thr Leu
20 25 30
Ile Met Asn Pro Ser Lys Ser Leu Glu Ser His Ile Leu Asp Lys Asn
35 40 45
Arg Leu Gln Ser Leu Met Leu Lys Asp Val Pro Val Val Pro Pro Asp
50 55 60
Ser Ile Ile Lys Thr Phe Ser His Leu Lys Pro Glu Asp Val Asp Leu
65 70 75 80
Ile Ile Ser Thr Asp Asn Glu Asp Leu Asn Pro Gly Ser Phe Val Leu
85 90 95
Arg Gln Gly Asp Phe Ala Arg Phe Phe Leu Asp Met Trp Phe Asp Pro
100 105 110
Leu Tyr Arg Lys Tyr Asn Phe Gln Lys Ala Glu Met His Ala Leu Val
115 120 125
Cys Phe His Pro Arg Phe Leu Met Ala Gly Asp Asp Arg Thr Asn Ser
130 135 140
Tyr Pro Ser Phe Thr Arg Ile Ile
145 150

<210> 23492
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23492
Thr Ile Ala His Leu Ser Ala Asn Ser His Lys Val His Val Asp Gly
1 5 10 15
Leu Xaa Ser Thr Pro Leu Ser Leu Ser Ile Gln Gln Leu Ala Ser Glu
20 25 30
Phe Pro Gln His Glu Val Ile Cys Ala Leu Glu Cys Ala Gly Asn Arg
35 40 45
Arg His Thr Met Arg Thr Met Leu Lys Glu Val Gln Gly Ile Asp Trp
50 55 60
Gly Asp Ala Ala Val Met Asn Cys Lys Trp Arg Gly Pro Arg Leu Arg
65 70 75 80
Asp Val Leu Leu Arg Ala Gly Val Lys Ala Ser Gln Glu Gly Leu His
85 90 95
Val Glu Phe Ser Cys Tyr Gln Val Lys Cys Gln Glu Asp Gly Trp Phe
100 105 110
Gly Ala Ser Val Pro Leu Glu Arg Cys Leu Gly Glu Asp Gly Asp Ala
115 120 125
Val Leu Ala Leu Gln Val Pro Leu Ser Arg Ser Leu

130 135 140

<210> 23493
<211> 134
<212> PRT
<213> A.fumigatus

<400> 23493
Met Asn Asp Ala Pro Leu Pro Val Asn His Gly Tyr Pro Val Arg Thr
1 5 10 15
Ile Leu Pro Gly Ile Val Gly Ala Arg Trp Val Lys Trp Leu Asp Arg
20 25 30
Ile Thr Val Ser Asp His Glu Ser Pro Asn Phe Tyr Gln Gln His Asp
35 40 45
Tyr Lys Val Leu Pro Pro Ala Ala Val Asp Gln Glu Ser Ala Gln Pro
50 55 60
Phe Trp Ala Gln Thr Pro Pro Met Ser Asp Met Pro Ile Asn Ser Val
65 70 75 80
Val Ala Val Pro Glu Asp Asn Glu Thr Val Ala Leu Ser Ser Ser Gly
85 90 95
Val Met Glu Val Thr Gly Tyr Ala Val Pro His Gly Ala Asp Gly Pro
100 105 110
Val Thr Arg Val Gln Val Ser Val Asp Gly Tyr Ser Thr Arg Ala Trp
115 120 125
Lys Val Pro Arg Leu Arg
130

<210> 23494
<211> 124
<212> PRT
<213> A.fumigatus

<400> 23494
Met Cys Asn Leu Glu Arg His Val Asp His Glu Gln Ala Cys Phe Ile
1 5 10 15
His Pro Ile Val Pro Ser Met Leu Thr Ala Pro Gly Lys Gly Ile Val
20 25 30
Met Phe Thr Gly Cys Ser His Val Gly Val Val Asn Ala Ala Lys His
35 40 45
Ala Ile Glu Cys Met Asp Gly Ser Asp Pro Leu His Ala Val Val Gly
50 55 60
Gly Phe His Leu Ala Thr Ser Glu Glu Gln Gln Met Glu Ser Thr Ile
65 70 75 80
Lys Asp Leu Lys Lys Leu Asp Pro Ala Val Leu Leu Pro Gly His Cys
85 90 95
Thr Gly Trp Arg Ala Lys Phe Ala Ile Glu Arg Leu Met Pro Gly Thr
100 105 110
Leu Val Pro Cys Thr Val Gly Ile Lys Val Thr Phe
115 120

<210> 23495
<211> 90
<212> PRT
<213> A.fumigatus

<400> 23495

```
Leu Thr Leu Ile Thr Glu Ile Val Ile Val Lys Ala Ser Ser Gly Pro
1               5                  10                  15
Arg Tyr Val Val Gly Cys Arg Ser Lys Val Asp Lys Ser Lys Leu Lys
            20                  25                  30
Gln Gly Thr Arg Val Ala Leu Asp Met Thr Thr Leu Thr Ile Met Arg
        35                  40                  45
Met Leu Pro Arg Glu Val Asp Pro Leu Val Tyr Asn Met Ser Leu Glu
    50                  55                  60
Asp Pro Gly Gln Ile Ser Phe Ala Gly Ile Gly Gly Leu Asn Glu Ser
65                  70                  75                  80
Ser Pro Arg Gly Trp Lys Gly Pro Arg Asn
                85                  90
```

<210> 23496
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23496

```
Xaa Thr Gln His Pro Phe Glu Ala Leu Pro Ala Gly Phe Ala Phe Pro
1               5                  10                  15
Thr Met Asn Gly Gly Ser Asp Pro Glu Arg Glu Gln Ala Leu Glu Asp
            20                  25                  30
Tyr Lys Lys Ser Leu Leu Glu Leu Arg Glu Trp Glu Ala Lys Leu Lys
        35                  40                  45
Asn Leu Arg Met Gly Ile Lys Asp Leu Gln Arg Glu Phe Asp Ile Ser
    50                  55                  60
Glu Glu Asn Ile Lys Ala Leu Gln Ser Val Gly Gln Ile Ile Gly Glu
65                  70                  75                  80
Val Leu Lys Gln Leu Asp Glu Glu Arg Cys Met Pro Phe Ser
                85                  90
```

<210> 23497
<211> 132
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23497

```
Gly Tyr Asn Ser Gly Asn Pro Lys Arg Ala Gln Leu Arg Xaa Pro His
1               5                  10                  15
Arg Leu Phe Leu Ala Pro Ser Ser Ile Leu Lys Gln Pro Pro Val Leu
            20                  25                  30
Thr Asn Ala Val Asn Ser Thr Ser Arg Tyr Val Leu Leu Ala Val Phe
        35                  40                  45
Tyr Leu Ser Thr Ala Pro Gln Leu Val Trp Glu Ser Asn His Cys Leu
    50                  55                  60
```

```
Val Phe Gly Phe Leu Val Ser Ile Gly Arg Asn Gly Asp Arg Glu Gln
65                  70                  75                  80
Ser Ser Gln Lys Lys Gln Gly Asp Thr Leu Leu Ser Ser Arg His Gly
                85                  90                  95
Leu Lys Asn Pro Trp Gly Ala Leu Phe Ala Leu Glu Asp Tyr Trp Trp
            100                 105                 110
Leu Thr Gly Phe Leu Ser Ser Gly Ser Lys Asn Phe Ser Ser Trp Val
        115                 120                 125
Asp Pro Leu Arg
    130
```

<210> 23498
<211> 287
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (159),(220)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23498
Arg Ser Gly Gly Thr Leu Gln Gln Leu Leu Ile Asp Pro Met Tyr Arg
1               5                   10                  15
Tyr His Thr Gln Ser Pro Glu Ala Leu Phe Ala His Val Pro Gly Val
            20                  25                  30
Gln Val Val Met Pro Arg Ser Pro Ser Gln Ala Lys Gly Leu Leu Leu
        35                  40                  45
Ser Ala Ile Phe Gln Ser Asn Asn Pro Val Ile Phe Met Glu Pro Lys
    50                  55                  60
Ile Leu Tyr Arg Ala Ala Val Glu His Val Pro Asn Glu Phe Tyr Thr
65                  70                  75                  80
Leu Pro Leu Asn Lys Ala Glu Val Val Lys Pro Gly Asn Asp Val Thr
                85                  90                  95
Val Val Ser Tyr Gly Gln Pro Met Tyr Leu Cys Ser Glu Ala Ile Arg
            100                 105                 110
Ala Ile Glu Lys Asp Met Gly Ala Ser Val Glu Leu Ile Asp Leu Arg
        115                 120                 125
Thr Ile Tyr Pro Trp Asp Arg Gln Thr Val Leu Asp Ser Val Lys Lys
    130                 135                 140
Thr Gly Arg Ala Ile Val Val His Glu Lys Gly Leu Asn Trp Xaa Tyr
145                 150                 155                 160
Phe Pro Gln Lys Lys Asn Pro Leu Leu Lys Thr Pro Arg Gly Gly Pro
                165                 170                 175
Arg Gly Phe Ser Arg Gly Gly Leu Gly Pro Leu Phe Gly Lys Lys Arg
            180                 185                 190
Gly Phe Leu Gly Pro Phe Gly Ala Pro Phe Lys Pro Pro Gln Ile Phe
        195                 200                 205
Pro Pro Pro Lys Arg Gly Lys Asn Leu Gly Gly Xaa Pro Arg Ala Pro
    210                 215                 220
Pro Pro Phe Phe Phe Pro Phe Phe Leu Gly Gly Pro Gly Gly Pro Pro
225                 230                 235                 240
Pro Phe Leu Gly Gly Gly Lys Arg Gly Gly Gly Pro Leu Phe Phe Ser
                245                 250                 255
Pro Pro Gln Lys Arg Gly Phe Cys Gly Gly Lys Lys Lys Lys Lys Gly
            260                 265                 270
```

```
Ala Pro Pro Ala Gly Lys Lys Arg Gly Val Phe Leu Gly Gly Gly
        275                 280                 285

<210> 23499
<211> 185
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (68),(129)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23499
Pro Pro Pro Lys Lys Thr Pro Leu Phe Phe Pro Ala Gly Gly Ala Pro
1               5                  10                  15
Phe Phe Phe Phe Phe Pro Pro Gln Lys Pro Leu Phe Trp Gly Gly Glu
            20                  25                  30
Lys Lys Arg Gly Pro Pro Pro Leu Phe Pro Pro Pro Lys Lys Gly Gly
        35                  40                  45
Gly Pro Pro Gly Pro Pro Lys Lys Lys Gly Lys Lys Lys Gly Gly Gly
    50                  55                  60
Ala Arg Gly Xaa Pro Pro Lys Phe Phe Pro Leu Phe Gly Gly Gly Lys
65                  70                  75                  80
Ile Trp Gly Gly Leu Lys Gly Ala Pro Lys Gly Pro Lys Lys Pro Leu
                85                  90                  95
Phe Phe Pro Lys Arg Gly Pro Lys Pro Pro Arg Glu Lys Pro Arg Gly
            100                 105                 110
Pro Pro Arg Gly Val Phe Lys Arg Gly Phe Phe Phe Trp Gly Lys Tyr
        115                 120                 125
Xaa Gln Phe Lys Pro Phe Ser Trp Thr Thr Ile Ala Arg Pro Val Phe
    130                 135                 140
Leu Thr Leu Ser Arg Thr Val Cys Arg Ser Gln Gly Tyr Ile Val Arg
145                 150                 155                 160
Arg Ser Met Ser Ser Thr Leu Ala Pro Met Ser Phe Ser Ile Ala Leu
                165                 170                 175
Met Ala Ser Glu Gln Arg Tyr Ile Gly
            180                 185

<210> 23500
<211> 193
<212> PRT
<213> A.fumigatus

<400> 23500
Arg Ile Pro Arg His Ser Ser Gln Gly Pro Ala Cys Pro Gln Ser Pro
1               5                  10                  15
Glu His Cys Cys Ile Leu Gln Arg Leu Cys Trp Gln Glu Val Ile Ser
            20                  25                  30
Pro Gly Pro Gly Phe Arg Tyr Ser Glu Asn Arg His Ala Asp Phe Ala
        35                  40                  45
Leu His Ser Phe Lys Ser Ile Asp Pro Thr Pro Cys His Gln Ser Ala
    50                  55                  60
His Pro Gln Gln Val Asp Ser Thr Val Ala Phe Thr Ile Arg Asp Thr
65                  70                  75                  80
Ala Ser Glu Thr Pro Asn Thr Val Thr Val Ser Glu Ile Thr Thr Arg
```

```
                85                  90                  95
His Leu Arg Arg Leu Lys Gln Ser Ala Ser Asp Tyr Leu Gly Lys Asp
            100                 105                 110
Val Asn Ala Ala Val Ile Thr Val Pro Thr Asp Phe Thr Asp Val Gln
        115                 120                 125
Arg Glu Ala Leu Ile Ala Ala Ala Gly Ala Ala Gly Leu Glu Val Leu
    130                 135                 140
Gln Leu Ile His Glu Pro Val Ala Ala Val Leu Ala Tyr Asp Ala Arg
145                 150                 155                 160
Pro Glu Ala Thr Val Thr Asp Lys Leu Val Val Val Ala Asp Phe Gly
                165                 170                 175
Gly Thr Arg Ser Asp Ala Ala Val Ile Ala Cys Arg Gly Gly Leu Tyr
            180                 185                 190
Ile
```

<210> 23501
<211> 182
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (17),(35)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23501

```
Gly Gln Leu Ile Leu Arg Lys Leu Ala Glu Leu Phe Ala Glu Ala Ala
1               5                   10                  15
Xaa Ser Thr Gln Val Glu Asp Gly Leu Ala Pro Thr Ile Val Asn Glu
            20                  25                  30
Asp Glu Xaa Cys Thr Val Arg Gln Ser Leu Leu Tyr Phe Ser Asp Val
        35                  40                  45
Ala Phe Phe Ile Gln Thr Gln Pro Asn Phe Arg Ser Ser Gly Glu Gly
    50                  55                  60
Ile Thr Gln Thr Glu Ser Ser Ala Thr Ser Ser Ser Phe Leu Gln Arg
65                  70                  75                  80
Gln Asn Ser Arg Pro Leu Ser Leu Ser Ser Ser Ile Leu Gln Tyr His
                85                  90                  95
Thr Leu Pro Asn Ser Leu Asp Glu Val Ser Pro Arg Ser Ser Phe Ser
            100                 105                 110
Asp Thr Ser Ser Asp Leu Thr Ile Thr Pro Leu Arg Ile Gln Lys Lys
        115                 120                 125
Ala Trp Met Pro Pro Gly Pro Gly Ser Ala Ser Lys Asp Pro Phe Val
    130                 135                 140
Asp Ser Ser Thr Gly Gly Asn His Thr Ala Gly Asn Leu Asp Asn Met
145                 150                 155                 160
Ser Gln Phe Gln Val Ser Glu Gly Thr Ala Leu Leu Phe Leu Val Gln
                165                 170                 175
Asn Ser Tyr Ala Leu Gln
            180
```

<210> 23502
<211> 247
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (243)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23502
Leu Arg Gly Glu Asp Gly Ser Ile Val Ser Phe Ser Gln Thr Gly Glu
1 5 10 15
Tyr Gly Ala Ser Gly Met Asp Thr Thr Gly Tyr Leu Tyr Val Pro Arg
20 25 30
Ala Cys Gln Pro Gly Ser Ser Thr Val Cys Lys Leu His Val Ala Leu
35 40 45
His Gly Cys Lys Gln Ser Tyr Ser Met Ile Gly Ser Lys Phe Val Ser
50 55 60
Asn Thr Gly Tyr Asn Met Trp Ala Asp Thr Asn Asp Ile Ile Ile Leu
65 70 75 80
Tyr Pro Gln Ala Val Ala Asp Asn Thr Met His Thr Ile Trp Thr Gly
85 90 95
Met Pro Leu Pro Asn Pro Asn Gly Cys Trp Asp Trp Val Gly Trp Tyr
100 105 110
Gly Ala Asn Ala Asp Gln Val Gly Gly Glu Ser Lys Ser Trp Leu Arg
115 120 125
Ala Ile Leu Phe Phe Phe Phe Phe Phe Phe Ser Phe Phe Pro Phe Phe
130 135 140
Phe Thr Asp Ser Asn Ala Leu Gly Val Gln Met Ala Ala Ile Val Asn
145 150 155 160
Gln Val Ala Arg Val Val Ser Gly Tyr Gly Ala Gly Ser Ser Ser Ser
165 170 175
Thr Thr Ala Ala Thr Pro Thr Thr Thr Thr Gly Ser Ile Thr Thr Thr
180 185 190
Thr Thr Thr Thr Ala Thr Val Thr Thr Thr Ala Val Ala Pro Leu Tyr
195 200 205
Gly Gln Cys Gly Gly Ile Gly Trp Thr Gly Pro Thr Ala Cys Ala Thr
210 215 220
Gly Val Cys Thr Ala Tyr Asn Pro Leu Ile Cys Thr Met Ser Leu Gly
225 230 235 240
Tyr Cys Xaa Asp Leu Glu Pro
245

<210> 23503
<211> 168
<212> PRT
<213> A.fumigatus

<400> 23503
Tyr Thr Tyr Trp Ile Ile Ser Leu Asn Gln Pro Ser Ser Tyr Phe Ala
1 5 10 15
Arg Tyr Lys Lys Ala Tyr Glu Ser Met Lys Ala Cys Pro Leu Val Phe
20 25 30
Gln His Pro Ser Glu Ala Gln Gln Leu Asn Gly Leu Gly Pro Lys Leu
35 40 45
Cys Glu Arg Leu Thr Glu Lys Leu Lys Ala Tyr Cys Glu Glu Asn Gly
50 55 60
Leu Pro Met Pro Glu His Pro Gln Lys Gly Ala Ala Ser Lys Arg Thr
65 70 75 80

```
Ser Asp Glu Gly Val Asp Asp Pro Pro Ala Lys Lys Pro Arg Lys Ala
                85                  90                  95
Lys Pro Tyr Val Pro Ser Leu Arg Ser Gly Pro Tyr Ala Leu Leu Leu
            100                 105                 110
Gly Leu Ala Thr Leu Asp Glu Asn Ala Ser Gln Gly Leu Thr Lys Ala
        115                 120                 125
Gln Leu Ile Glu Lys Ala Gln Pro Tyr Cys Asp Ser Ser Phe Thr Ala
    130                 135                 140
Pro Pro Asp Pro Ser Lys Phe Tyr Thr Ala Trp Asn Ser Met Lys Thr
145                 150                 155                 160
Leu Val Phe Asp Asn Ser Gly Arg
                165
```

<210> 23504
<211> 218
<212> PRT
<213> A.fumigatus

```
<400> 23504
Val Leu Gly Ser Ala Val Glu Ala Met Gly Pro Ala Ala Val Leu Glu
1               5                   10                  15
Ile Leu Pro Leu Asn Ile Ile Gln Gln Lys Asn Gly Gln Pro Gly Arg
            20                  25                  30
Val Trp Phe Leu Pro Ile Leu Arg Asp Ser Val Thr Asn Thr Asn Leu
        35                  40                  45
Ala His Phe Arg Ser Glu Leu Val Pro Leu Ser Glu Ala Leu Tyr Gln
    50                  55                  60
Lys Val Val Asp Tyr Gly Ser Ala Glu Lys Thr Val Glu Lys Lys Ile
65                  70                  75                  80
Phe Glu Thr Leu Val Gln Gln Thr Trp Ala Ile Leu Pro Gly Tyr Cys
                85                  90                  95
Glu Leu Pro Leu Asp Leu Val Glu Ala Phe Asp Gln Ser Phe Ala Glu
            100                 105                 110
Leu Leu Ser Asn Val Leu Tyr Lys Gln Thr Glu Leu Arg Val Asp Ile
        115                 120                 125
Cys Asn Ala Leu Gln Thr Leu Val Glu Ser Asn Gln Ala Ile Leu Ser
    130                 135                 140
Ile Glu Ser Glu Glu Asp Asp Leu Ile Leu Gln Arg Arg Ile Thr Lys
145                 150                 155                 160
Ala Ala Ala Lys Lys Asn Ile Ser His Leu Ala Gly Phe Ala Ser Asn
                165                 170                 175
Leu Leu Ala Val Leu Phe Asn Val Tyr Ser Gln Thr Leu Pro His Tyr
            180                 185                 190
Arg Gly Tyr Ile Leu Gln Cys Ile Asn Ala Tyr Leu Ser Ile Thr Pro
        195                 200                 205
Glu Lys Val Ser His Ser Leu Tyr Gln Ile
    210                 215
```

<210> 23505
<211> 196
<212> PRT
<213> A.fumigatus

```
<400> 23505
Cys Gly Ile Val Ala Pro Phe Val Leu Ser Asp Gln Pro Ala Gly Thr
1               5                   10                  15
```

```
Ser Ala Phe Pro Arg Gly His Tyr Leu Ile Pro Asp Thr Asn Ala Leu
            20                  25                  30
Leu Asn Gly Met Asp Leu Phe Glu His Thr Gly Ala Phe Tyr Asp Val
        35                  40                  45
Ile Ile Leu Gln Thr Val Leu Glu Glu Leu Lys Asn Gln Ser Leu Pro
    50                  55                  60
Leu Tyr Asn Arg Leu Leu Ser Leu Ile Lys Thr Asp Glu Lys Arg Phe
65                  70                  75                  80
Tyr Leu Phe Phe Asn Glu Phe Arg Leu Glu Thr His Val Arg Arg Gly
                85                  90                  95
Gln Asn Glu Ser Ile Asn Asp Arg Asn Asp Arg Ala Val Arg Ala Val
            100                 105                 110
Ala Lys Trp Tyr Ser Glu His Leu Arg Ser Thr Leu Lys Arg Gly Lys
        115                 120                 125
Lys Glu Lys Ser Val Pro Ala Ile Val Val Ile Thr Asp Asp Lys Glu
    130                 135                 140
Asn Leu Arg Lys Ala Lys Glu Glu Gly Val Thr Ala Leu Ser Leu Ser
145                 150                 155                 160
Asp Tyr Val Ser Gly Leu Glu Asp Ala Asp Arg Leu Leu Asp Met Ile
                165                 170                 175
Ser Glu Ala Arg Glu Ala Arg Val Phe Thr Thr Gly Leu Glu Gly Ser
            180                 185                 190
Ala Val Ala Leu
        195
```

<210> 23506
<211> 92
<212> PRT
<213> A.fumigatus

```
<400> 23506
Leu Phe Pro Ala Leu Ile Gly Val Asp Asp Leu Leu Asn Lys Gln Cys
1               5                   10                  15
Gln Gln Asn Val Ala Cys Cys Gln Asp Asn Lys Ser Val Ala Val Ser
            20                  25                  30
Ser Phe Ser Ser Ser Leu Val Gly Thr Leu Leu Thr Ile Leu Asp Trp
        35                  40                  45
Arg Pro His Gln His Cys His Ala Ser Leu Arg Cys Ser Arg Leu Tyr
    50                  55                  60
His Leu Ser Gln Leu Arg Val Pro Phe Ser Gln Thr Leu Val Arg Tyr
65                  70                  75                  80
Leu Arg Asp Gln Arg Leu His Ile Ala Leu Gly Val
                85                  90
```

<210> 23507
<211> 82
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23507
Gly Gly Gly Met Asn Met Lys Gly Ser Gly His Thr Ser Lys Cys Thr
```

```
1               5                   10                  15
Leu Pro Leu Phe Gly Gly Ile Arg Cys Pro Asn His Leu Xaa Ser Phe
            20                  25                  30
Arg Ser Arg Asn Thr Val Leu Ala Tyr Leu Ala Trp Asp Leu Phe Val
        35                  40                  45
Arg Val Glu Arg Phe Gly Thr Ile Arg Ala Trp Met Asn Thr Ser Gln
    50                  55                  60
Tyr Ala Ile Ile Ser Leu Ser Ser Ile Met Asp Ser Pro Gln Leu Gln
65                  70                  75                  80
Cys Asp
```

<210> 23508
<211> 136
<212> PRT
<213> A.fumigatus

<400> 23508

```
Lys Leu Thr Gly Lys Gln Ser Arg Gly Lys Asp Thr Thr Ser His Gln
1               5                   10                  15
Ile Cys Thr Asp Phe Gly Ile Cys Asn Val Arg Ala Ser Leu Arg Leu
            20                  25                  30
Val Ala Trp Lys Arg Lys Arg Arg Glu Asp Val Ser Phe Met Ser Ser
        35                  40                  45
Ser Glu Phe His Pro Ile Asn Thr Asp Arg Ala Gln Ser Pro Asp Ala
    50                  55                  60
Ser Thr Glu Cys His Glu Ser Asp Ser Leu Asp Lys Leu Arg Trp Trp
65                  70                  75                  80
Gln Lys Ala Thr Ile Tyr Gln Val Leu Ile Gln Ser Phe Gln Asp Thr
                85                  90                  95
Asp Gly Asp Gly Lys Gly Asp Leu Arg Gly Ile Val Asn Arg Leu Asp
            100                 105                 110
Tyr Phe Val Ala Leu Gly Ile Asp Val Ile Trp Ile Ser Pro Ile Tyr
        115                 120                 125
Glu Ser Pro Met Arg Asp Met Gly
    130                 135
```

<210> 23509
<211> 103
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23509

```
Tyr Ser Ser Lys His Glu Trp Phe Gln Thr Ser Arg Arg Ala Arg Lys
1               5                   10                  15
Asp Pro Lys Leu Ser Lys Arg Glu Arg Tyr Phe Trp Ser Glu Arg Xaa
            20                  25                  30
Leu Asn Asp Leu Gly Ile Val Tyr Leu Gln Ile Met Gly Glu Tyr Ile
        35                  40                  45
Tyr Trp Tyr Val Pro Asn Leu Ser Cys Ser Ser Pro Leu Leu Lys Pro
    50                  55                  60
```

```
Pro Tyr Val Trp Arg Thr Val Leu Val Trp Lys Leu Gly Gln Pro Gly
65                  70                  75                  80
Arg Arg Ile Ser Leu Ala Tyr Ser Ala Ile Pro Met Ala Asn Leu Gly
                85                  90                  95
Ala Asp Gly Gly Ile Leu Thr
            100
```

<210> 23510
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23510

```
Ser Ala Val Met Asp Leu Met Val Ser Ile Tyr Asp Thr Tyr Leu Ala
1               5                   10                  15
Pro Gln Lys Ala Ala Gly Val Val Ser Asn Gly His Leu Ala Tyr Asp
            20                  25                  30
Ala Thr Val Gln Lys Gln Val Glu Pro Met Met Glu Met Val Arg Asp
        35                  40                  45
Gln Arg Glu Lys Leu Ala Arg Glu Val Glu Arg Trp Cys Lys Glu Arg
    50                  55                  60
Gly Val
65
```

<210> 23511
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23511

```
Gly Cys Ser Arg Gly Ser Leu Val Tyr Thr Pro Gly Lys Trp Met Ile
1               5                   10                  15
Glu Pro Thr Leu Pro Leu Ile Arg Lys Asp Leu Gln Asp Asp Phe Ile
            20                  25                  30
Gly Phe Arg Asp Gly Ile Leu Thr His Val Asp Arg Met Thr Asn Ser
        35                  40                  45
Asp Lys Gly Trp Leu Lys Gly Trp Gln Asp Asp Ser Pro Met Phe Glu
    50                  55                  60
Ile Leu Cys Ser Ser
65
```

<210> 23512
<211> 93
<212> PRT
<213> A.fumigatus

<400> 23512

```
Glu Val Leu Phe Pro Phe Ser Asp Thr Pro Met Ser Thr Asn Thr Asn
1               5                   10                  15
Thr Asp Thr Ala Gly His Thr Ala Lys Arg Glu Glu Ser Arg Leu Arg
            20                  25                  30
Ala Ala Lys Ala Cys Arg Arg Cys Ser Gln Arg Lys Ile Lys Ser Asp
        35                  40                  45
Ala Val Gln Asn Gly Leu Pro Cys Ser Arg Cys Arg Met Asp Asn Thr
    50                  55                  60
Asp Asp Cys Thr Leu Thr Leu Ser Arg Arg Gly Thr Tyr Tyr Arg Lys
```

65 70 75 80
Gly Gly Ala Arg Pro Ala Ile Val Ile Cys Arg Ser Pro
85 90

<210> 23513
<211> 261
<212> PRT
<213> A.fumigatus

<400> 23513
His Phe Glu Lys Lys Cys Ile Cys Ser Gln Ala Ile Ser Gly Asp Met
1 5 10 15
Leu Ser Ile Glu Leu Leu Leu Ser Met Ala Thr Arg Phe Val Phe His
20 25 30
Leu Lys Gly Asn Val Tyr Pro Glu Asp Ile Glu Gly Val Thr Leu Asp
35 40 45
Ala Lys Leu His Val Arg Asn Leu Phe Trp Ile Cys Phe Thr Leu Asp
50 55 60
Lys Met Phe Ser Leu Arg Thr Gly Leu Gln Pro Phe Ile Asp Val Thr
65 70 75 80
Asn Cys Asp Leu Arg Leu Pro Arg Met Gln Thr Val Thr Gly Pro Leu
85 90 95
Glu Gly Leu Gln Pro Phe Tyr Arg Gln Tyr Asn His Thr Met Phe Leu
100 105 110
Ala Leu Ile Arg Leu Ser Leu Val Gln Ser Lys Val Tyr His Gly Leu
115 120 125
Tyr Ser Phe Ser Ala Gln Arg Gln Ser Asp Ala Asp Leu Leu Ala Thr
130 135 140
Ile Arg Ser Leu Asp Ile Ala Leu Glu Glu Trp Arg Ser Ser Val Pro
145 150 155 160
Thr Ser Trp Gly Leu Pro Thr Pro His Glu Asn Arg Met Ala Gly Leu
165 170 175
Leu Phe Glu Met Gln Tyr His Tyr Thr Met Ala Ala Ile His Gln Thr
180 185 190
Ser Ser Arg Cys Thr Ala Trp Val Arg Asn Gln Asp Thr Arg Ala Ala
195 200 205
Gly Ser Ser Leu Ala Leu Ser Val Ala Ala Arg Arg Ser Leu Leu Arg
210 215 220
Lys Val Leu Glu Thr Asp Pro Gln Ile Glu Gly Gln Phe Ser Leu Val
225 230 235 240
Gly Asp Gln Ser Tyr Val Trp Ser Asn Val Ser Leu Glu Leu Ile Thr
245 250 255
Leu Glu Gly Phe Gly
260

<210> 23514
<211> 181
<212> PRT
<213> A.fumigatus

<400> 23514
Arg Pro Ala Asp Leu Ile Glu Ser Pro Thr Phe Gly Arg Val Leu Gln
1 5 10 15
Gly Leu Asn Asp Glu Cys Phe Asp Leu Leu Met Gln Asn Cys Ile Gln
20 25 30
Glu Ala Phe Gln Ser Ser Pro Gln Ala Ser Glu Ser Val Pro Gln Ser

```
        35                  40                  45
Phe Thr Ser Val Ala Thr Val Val Pro Gln Val Lys Thr Ala Asp Val
    50                  55                  60
Lys Thr Lys Leu Ala Asn Val Leu Ala Val Met Ala Arg Gln Ala His
65                  70                  75                  80
Val Ile Gly Asn Gly Thr Asn Pro Pro Asn Ile Tyr Leu Ser Ala Met
                85                  90                  95
Asp Gln Asn Val Arg Asn Leu Glu Ala Phe Ala Ala Val Ile Tyr Ser
            100                 105                 110
Ser Asn Phe Asp Phe Gln Leu Pro Gly Ala Glu Gln Lys Glu Glu Gln
        115                 120                 125
Val Thr Ala Glu Arg Asp His Ser Asp Thr Ser Ser Thr Ala Pro Val
    130                 135                 140
Met Val Asp Lys Asp Asp Thr Gln Asp Leu Asn Gln Ala Ser Pro Ser
145                 150                 155                 160
Ala Val Ala Glu Asn Asn Ser Ala Phe Glu Lys Ala Trp Gly Lys Ala
                165                 170                 175
Val Glu Ser Ser Glu
            180
```

<210> 23515
<211> 98
<212> PRT
<213> A.fumigatus

<400> 23515

```
Ser Gly Ala Ser Lys Trp Thr Thr Ala Gln Arg Arg Ala Phe Ala Asn
1               5                   10                  15
Asp Leu Thr Asn Pro Gln Leu Ile Ala Val Thr Asp Asn Val Asn Gln
            20                  25                  30
Ala Lys Gly Asp Asp Gly Pro Glu Ala Trp Lys Pro Pro Leu Ser Lys
        35                  40                  45
Phe Ser Phe Ser Pro Ala Asp Asn Asp Ala Asn Gly Leu Ala Ser Tyr
    50                  55                  60
Tyr Cys Thr Tyr Ala Lys Met Trp Val Arg Val Lys Tyr Val Tyr Asp
65                  70                  75                  80
Leu Thr Ile Thr Ser Ala Glu Lys Asn Ala Leu Val Ser Met Leu Asp
                85                  90                  95
Thr Cys
```

<210> 23516
<211> 189
<212> PRT
<213> A.fumigatus

<400> 23516

```
Pro Ser Ile Thr Pro Val Met Thr Leu Gly Tyr Ile Phe Arg Leu Ile
1               5                   10                  15
Ser Ala Arg Ser Pro Asp Ser Leu Val Pro Tyr Ile Gly Gln Ser Met
            20                  25                  30
Phe Ile Ile Leu Pro Pro Ser Leu Tyr Ala Ala Thr Ile Tyr Met Thr
        35                  40                  45
Tyr Gly Arg Ile Val Val Tyr Val Gly Lys Pro His Leu Ser Ile Ile
    50                  55                  60
Ser Pro Arg Lys Val Thr Lys Val Phe Val Leu Gly Asp Val Ser Ala
```

65 70 75 80
Phe Leu Leu Gln Leu Gly Gly Gly Gly Met Gln Thr Ile Asp Ser Met
85 90 95
Arg Asn Ile Gly Gln Lys Val Leu Val Val Gly Leu Phe Val Gln Leu
100 105 110
Ile Phe Phe Gly Phe Phe Leu Tyr Val Ser Val Ser Phe Gln Ile Arg
115 120 125
Leu Arg Arg Ser Gly Phe Asp Leu Ile Gly Gly Leu Trp Arg Arg Leu
130 135 140
Leu Gln Ile Leu Phe Leu Ala Ser Ala Leu Asp Ile Ala Arg Cys Val
145 150 155 160
Phe Arg Ile Ile Gly Tyr Val Lys Gly Thr Gly Gly Tyr Ser Ile Phe
165 170 175
Pro Arg Arg Leu Leu Cys Thr Ser Ser Asp Leu Ile Pro
180 185

<210> 23517
<211> 83
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (51)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23517
Glu Arg Trp Ser Phe Gln Pro Arg Gly Glu Asp Thr Asn Met Asn Phe
1 5 10 15
Val Leu Thr Arg Lys Phe Ser Arg His Arg Tyr Ser Asn Arg Asn Ser
20 25 30
Glu Glu Ala Asn Tyr Phe Pro Phe Thr His Lys Ile Gln Ser Ala Glu
35 40 45
Asp Ala Xaa Glu Lys Phe Pro Gln Leu Met Val Thr Ala Asp Lys Phe
50 55 60
Val Met Lys Arg Asp Trp Glu Val Asp Glu Ile Phe Asp Gly Arg Lys
65 70 75 80
Arg Thr Arg

<210> 23518
<211> 118
<212> PRT
<213> A.fumigatus

<400> 23518
Ala Tyr Arg Asp Leu Pro Leu Lys Leu Arg Arg Ala Cys Lys Val Cys
1 5 10 15
Ile Asp Ser Ala Ile Leu Ser Thr Glu Ala Phe Asp Gly Ile Glu Gly
20 25 30
Arg Pro Ile Val Thr Asn Ile Phe Gly Thr Ala His Ala Gln Phe Gly
35 40 45
Asn Met Leu Val Leu Ser Ala Thr Tyr Met Ser Cys Leu Ser Glu Leu
50 55 60
Val Asp Arg Asn Val Leu Glu Lys Leu Leu Lys Arg Thr Ile Lys Phe
65 70 75 80

```
Leu Leu Gln Ser Arg Tyr Ile Ser Pro Ser Val Arg Ala Asp Ala Arg
                85                  90                  95
Ile Leu Thr Glu Ile Tyr Glu Lys Ile Phe Gly Glu Pro Ala Thr Ser
            100                 105                 110
Phe Thr Ser Ala Tyr Ser
        115
```

<210> 23519
<211> 120
<212> PRT
<213> A.fumigatus

<400> 23519

```
Arg Cys Gln Thr Leu Arg Asp Leu Ile Lys Asn Gly Leu Tyr Asp Asp
1               5                  10                  15
Ile Asp Arg Ser Trp Arg Leu Phe Arg Gln Ile Leu Asp Gly Leu Ser
            20                  25                  30
His Ile His Ser His Gly Ile Ile His Arg Asp Leu Lys Pro Asp Asn
        35                  40                  45
Ile Phe Ile Asp Val Ala Ser Asn Pro Arg Ile Gly Asp Phe Gly Leu
    50                  55                  60
Ala Thr Ser Gly Gln Phe Thr Thr Ala Val Arg Ser Ser Thr Thr Ala
65                  70                  75                  80
Asp Phe Glu Gly Asn Leu Thr Arg Ser Leu Gly Thr Thr Tyr Tyr Val
                85                  90                  95
Ala Pro Glu Met Lys Ser Gly Phe Ala Gly His Tyr Asn Glu Lys Val
            100                 105                 110
Asp Val Ser Ile Ile Glu Ser Gln
        115                 120
```

<210> 23520
<211> 263
<212> PRT
<213> A.fumigatus

<400> 23520

```
Ala Pro Ser Gly Cys Gly Ala Leu Gln Thr Ala Arg Ala Ser Arg Glu
1               5                  10                  15
Ala Gly Leu Gln Gln Ala Leu Leu Glu Ser Gly Glu Ser Ser Pro Asn
            20                  25                  30
Asp Ser Ser Thr Arg Ile Asn Ser Gln Arg Ala Asp Pro Tyr Pro Ala
        35                  40                  45
Thr Asn Thr Ala Ser Lys Glu Ala Ser Gln Ser Thr Lys Glu Asp Asp
    50                  55                  60
Glu Thr Ile Asn Leu Asp Asp Pro Arg Ser Gln Ser Gly Lys Tyr Trp
65                  70                  75                  80
Lys Ala Glu Phe Asp Ser Tyr Arg Ala Arg Thr Thr Asn Glu Ile Arg
                85                  90                  95
Lys Leu Ile Gln Tyr Arg Ser Ala Ala Lys Lys Phe Ala Leu Met Lys
            100                 105                 110
Glu Ala Glu Ala Ser Arg Leu Ala Lys Lys Leu Lys Glu Glu Glu Val
        115                 120                 125
Lys Val Ala Glu Met Glu Arg His Val Thr Gln Leu Ala Ser Ser Met
    130                 135                 140
Val Ala Glu Lys Ala Lys Ala Asp Arg Glu Gln Leu Val Gln Asp Leu
145                 150                 155                 160
```

```
Thr Lys Gln Thr Ala Leu Ala Leu Gln Tyr Lys His Arg Val Asn Thr
                165                 170                 175
Leu Arg Lys Leu Leu Glu Gln His Gly Val Val Gly Ser Glu Val Asp
            180                 185                 190
Asp Ile Val Gly Lys Arg Glu Ala Asn Asn Ser Ser Asn Asp Thr Ser
        195                 200                 205
Gln Glu Leu Val Lys Thr Gln Gln Ala Leu Ser Gln Ala Asn Ala Arg
    210                 215                 220
Ile Glu Glu Met Lys Leu Gln Gln Ala Glu Phe Asp Lys Leu Lys Glu
225                 230                 235                 240
Leu Ala Gln Ser Ser Glu Gln Lys Ala Ser Glu Leu Ala Arg Leu Asp
                245                 250                 255
His Thr Gly Glu Asn Pro Arg
            260
```

<210> 23521
<211> 260
<212> PRT
<213> A.fumigatus

<400> 23521

```
Thr Asn Lys Ser Leu Gly Val Ala Gly Leu Asp Thr Asp Leu Pro Thr
1               5                   10                  15
Ala Val Glu Ala Phe Phe Leu Asp Ser Leu Leu Gly Lys Ala Phe Phe
            20                  25                  30
Cys Thr Phe Gln Ile Phe Phe Tyr Ala Val Arg Pro Met Phe Ile Tyr
        35                  40                  45
Ser Pro Pro Phe Thr Tyr Ile His Leu Leu Asn Leu Ile Thr Gln Leu
    50                  55                  60
Ser Phe Asp Tyr Ala Leu Thr Lys Phe Cys Gly Gly Ser Leu Gln Pro
65                  70                  75                  80
Leu Leu Tyr Leu Leu Leu Ser Ser Phe Leu Ala Gly Ser Leu His Pro
                85                  90                  95
Cys Ala Gly His Phe Ile Ala Glu His Tyr Phe Phe Ser Arg Val Glu
            100                 105                 110
Ser Gly Gly Thr Glu Ser Ile Glu Glu Gln Arg Lys Met Arg Ala Asn
        115                 120                 125
Ser Gly Ala Ser Lys Gln Lys Gln Gln Pro His Pro Leu Asp Ser Leu
    130                 135                 140
Pro Pro Pro Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Ile Leu Thr
145                 150                 155                 160
Tyr Asn Val Gly Leu His Asn Glu His His Asp Phe Pro Ala Ile Pro
                165                 170                 175
Trp Thr Lys Leu His Glu Leu His Arg Ile Ala Lys Glu Phe Tyr Glu
            180                 185                 190
Pro Leu Pro Cys His Arg Ser Trp Val Trp Val Ile Trp Thr Phe Ile
        195                 200                 205
Leu Asp Lys Asn Val Gly Leu Trp Cys Arg Val Lys Arg Ala Gln Gly
    210                 215                 220
Gly Arg Leu Val Gly Gly Gly Asn Gly Arg Ala Gly Glu Glu Ile Cys
225                 230                 235                 240
Ala Ala Ser Pro Glu Thr Asp Glu Glu Gly Asp Gly Trp Lys Glu Ser
                245                 250                 255
Glu Ile Gln Asn
            260
```

<210> 23522
<211> 184
<212> PRT
<213> A.fumigatus

<400> 23522
Phe Leu Asn Arg Gln Ala Tyr Asn Phe Gln Pro Phe Leu Leu Phe Val
1 5 10 15
Thr Thr Ser Phe Pro Val Arg Phe Ser Tyr His Pro Val Phe Thr Gln
20 25 30
Phe His Leu Ser Gln Gln Pro Arg Arg Pro Leu His Leu Ile Ile Phe
35 40 45
Pro Asn Phe Ile Leu Ser Thr Thr Thr Thr Thr Met Thr Arg Lys Pro
50 55 60
Leu Arg Val Gly Val Leu Leu Val Gly Thr Val Gln Leu Leu Asp Leu
65 70 75 80
Ala Ala Val Asp Leu Leu Phe Met Ile Asp Pro Ser Tyr Leu Thr Ala
85 90 95
Cys Thr Leu Pro Lys Pro Leu Ile Glu Leu Gly Arg Pro Val Ser Val
100 105 110
Val Tyr Ile Gly Lys Ala Gly Pro Gln Ala His Gln Glu Thr Thr Ser
115 120 125
Asn Leu Ser Leu Gln Leu Thr His Ser Pro Thr Asp Pro Ala Val Gln
130 135 140
Pro Gly Ala Leu Asp Val Ile Leu Ile Pro Gly Pro Glu Pro Ser Thr
145 150 155 160
Val Pro Asp Ala Glu Tyr Leu Asp Leu Val Arg Ala His Asn Ala Ala
165 170 175
Gly Thr His Ile Leu Ser Ile Cys
180

<210> 23523
<211> 112
<212> PRT
<213> A.fumigatus

<400> 23523
Asp Pro Asn Asp Asn Phe Leu Ser Gly Asn Thr Ala Asn Tyr Ile Asp
1 5 10 15
Glu Met Tyr Leu Ala Trp Lys Lys Asp Pro Ser Ser Val His Ile Ser
20 25 30
Trp Gln Thr Tyr Phe Lys Asn Met Glu Glu Gly Asn Met Pro Ile Ala
35 40 45
Gln Ala Phe Gln Pro Pro Pro Thr Leu Val Pro Thr Pro Thr Gly Gly
50 55 60
Val Pro Gln Thr Met Pro Gly Glu Gly Leu Gly Leu Ser Ala Gly Thr
65 70 75 80
Asp Leu Thr His His Leu Lys Val Gln Leu Leu Val Arg Ala Tyr His
85 90 95
Ala Arg Gly His His Lys Ala Lys Ile Asp Pro Leu Gly Ile Pro Pro
100 105 110

<210> 23524
<211> 269
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(26),(28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23524
Ala Xaa Phe Lys Pro Gly Asp Arg Val Leu Gly Leu Gly Ser Glu Leu
1 5 10 15
Lys Asp Asn Asn Pro Ala Glu Ala Ala Xaa Gln Xaa Tyr Thr Ala Ile
20 25 30
Pro Ala His Val Ala Ser Pro Ile Pro Thr Gly Leu Ser Tyr Glu Asn
35 40 45
Ala Ser Val Ile Pro Leu Gly Ile Ser Thr Ala Ser Cys Gly Leu Phe
50 55 60
Gln Lys Asp His Leu Ala Leu Arg Leu Pro Thr Ser Pro Arg Ala Ala
65 70 75 80
Ser Ser Gly Gln Leu Val Leu Ile Trp Ser Gly Ser Ser Ser Val Gly
85 90 95
Ser Asn Ala Ile Gln Leu Ala Ala Ala Ala Gly Tyr Glu Val Val Thr
100 105 110
Thr Ala Ser Thr Lys Asn Phe Glu Tyr Val Lys Ser Leu Gly Ala Gly
115 120 125
His Val Phe Asp Tyr His Ser Pro Thr Leu Val Asp Asp Ile Ser Lys
130 135 140
Val Tyr Asp Ser Lys Thr Gly Val Gly Ala Leu Ala Ile Gly Thr Glu
145 150 155 160
Ala Ala Gly Pro Cys Cys Glu Val Leu Ser Lys Val Asn Ser Arg Lys
165 170 175
Phe Val Ser Leu Thr Asn Pro Pro Thr Gly Ala Leu Pro Glu Gly Ile
180 185 190
Glu Ser Lys Phe Val Phe Gly Ala Ala Val Lys Asp Asn Glu Ile Gly
195 200 205
Pro Ala Ile Phe Glu Ala Phe Leu Pro Lys Ala Leu Ala Ala Gly Glu
210 215 220
Phe Lys Ser Ala Pro Thr Ala Glu Val Val Gly Lys Gly Leu Gly Ser
225 230 235 240
Ile Gln Ala Gly Leu Glu Gln Val Lys Lys Gly Ala Ser Ala Lys Lys
245 250 255
Tyr Val Ile Ser Leu His Arg Pro Pro Arg Leu Leu Phe
260 265

<210> 23525
<211> 208
<212> PRT
<213> A.fumigatus

<400> 23525
Arg Gln Asp Met Gly Tyr Ala Gln Ser Lys Leu Val Gly Glu His Ile
1 5 10 15
Cys Ile His Ala Ala Gln Gln Thr Gly Ile Arg Ala Arg Val Leu Arg
20 25 30
Ile Gly Gln Val Ile Gly Asp Gln Ala His Gly Ile Trp Asn Ser Thr
35 40 45
Glu Ala Ile Pro Leu Met Leu Gln Cys Ala Lys Thr Ile Gly Ala Leu
50 55 60

```
Pro Ala Leu Asp Glu Ser Pro Leu Trp Leu Pro Val Asp Thr Val Ala
65                  70                  75                  80
Gly Thr Val Val Asp Ile Ser Leu Cys Asp Phe Pro Ala Val Pro Pro
                85                  90                  95
Glu His Glu Gln Val Phe Asn Val Val Ser Pro His Pro Phe His Trp
            100                 105                 110
Thr Arg Asp Leu Leu Pro Tyr Leu Arg Ala Ala Gly Leu Glu Phe Asp
        115                 120                 125
Val Leu Glu Gln Arg Ala Trp Val Ala Arg Leu Lys Gln Ser Asn Pro
    130                 135                 140
Asp Pro Ala Val Asn Pro Pro Ile Lys Leu Val Glu Phe Phe Ala Ser
145                 150                 155                 160
Lys Tyr Asp Thr Asp Ala Pro Arg Arg Gly Lys Asn Trp His Thr Gly
                165                 170                 175
Lys Thr Lys Glu Val Ser Arg Thr Leu Ala Glu Ser Lys Pro Leu Ser
            180                 185                 190
Gln Glu Leu Val Ser Lys Ile Val Glu Tyr Phe Cys Lys Glu Cys Trp
        195                 200                 205
```

<210> 23526
<211> 127
<212> PRT
<213> A.fumigatus

<400> 23526

```
Ser Ala Asn Thr Ser Ala Ser Thr Pro Arg Ser Arg Pro Val Ser Val
1               5                   10                  15
Pro Ala Ser Cys Ala Ser Ala Arg Ser Ser Ala Thr Arg Pro Thr Ala
            20                  25                  30
Ser Gly Thr Pro Gln Arg Pro Ser Pro Ser Cys Cys Ser Ala Gln Arg
        35                  40                  45
Pro Ser Ala Pro Ser Pro Pro Ser Met Ser Pro Arg Ser Gly Ser Leu
    50                  55                  60
Ser Ile Gln Trp Gln Val Pro Ser Ser Thr Ser Pro Ser Ala Thr Phe
65                  70                  75                  80
Arg Pro Tyr Arg Pro Asn Thr Asn Arg Ser Ser Thr Ser Ser Ala Arg
                85                  90                  95
Ile Pro Ser Thr Gly Pro Gly Ile Cys Cys Arg Ile Cys Ala Pro Arg
            100                 105                 110
Ala Ser Ser Ser Thr Cys Trp Ser Ser Val Pro Gly Trp Arg Gly
        115                 120                 125
```

<210> 23527
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23527

```
Leu Ser Thr Leu Phe Val His Pro Val Val Asn Ile Trp Ile Pro Ile
1               5                   10                  15
Trp Thr Val Phe Val Ala Leu Arg Ser Ala Ala Ala Leu Val Leu Pro
            20                  25                  30
Phe Ala Phe Leu Tyr Ala Val Ser Asn Tyr Gln Leu Ala Val Gly Ser
        35                  40                  45
Phe Asn Glu Leu Ile Tyr Cys Tyr Met Val His Thr Asn Ala Gly
    50                  55                  60
```

<210> 23528
<211> 232
<212> PRT
<213> A.fumigatus

<400> 23528
Gly His Arg His Pro Cys Gly Pro Ser Thr Tyr Gly Ser Ile Ala Gly
1 5 10 15
Asp Ala Trp Tyr Arg Ala Gln Tyr Met Leu Gln Asp Gln Lys Ile Gly
20 25 30
His Tyr Met His Ile Pro Pro Arg Thr Val Phe Phe Ser Gln Val Phe
35 40 45
Gly Thr Val Leu Gly Ile Pro Met Asn Tyr Ala Val Met Arg Trp Val
50 55 60
Leu Ser Thr Lys Arg Asp Val Leu Thr Gly Ala Lys Pro Asp Pro Leu
65 70 75 80
His Gln Trp Thr Gly Gln Ser Leu Ile Ser Ser Asn Thr Leu Gly Val
85 90 95
Gln Tyr Ala Val Ile Gly Pro Ala Glu Leu Phe Lys Gln Ser Glu Met
100 105 110
Arg Pro Leu Pro Trp Ser Phe Leu Leu Gly Ala Leu Leu Pro Pro Val
115 120 125
Leu Tyr Gly Leu His His Leu Leu Pro Arg Trp Arg Ile Asp Leu Trp
130 135 140
Asn Val Ser Ile Phe Phe Ser Gly Leu Ala Val Phe Tyr Gly Asn Leu
145 150 155 160
Ser Thr Gly Tyr Thr Ser Ala Ile Ile Gly Gly Tyr Val Val Met Tyr
165 170 175
Trp Ala Tyr Arg Lys Arg Phe Glu Val Trp Lys Arg Tyr Ser Tyr Met
180 185 190
Ile Ala Ala Ala Phe Asp Ala Gly Phe Asn Leu Asn Met Leu Leu Ile
195 200 205
Phe Leu Phe Phe Gly Ser Ala Lys Gln Ile Ser Cys His His Ala Glu
210 215 220
Ala Gly Gln Ile Arg Thr Tyr Ala
225 230

<210> 23529
<211> 94
<212> PRT
<213> A.fumigatus

<400> 23529
Ile Ser Ser Phe Gly Pro Cys Thr Pro Leu Asp Tyr Leu Tyr Thr Cys
1 5 10 15
Asp Val Ser Leu Gln Pro Ile Lys Ala Ile Phe Pro Ser Ser Ser Cys
20 25 30
Cys Asp Asp Asp Val Ser Leu Thr Pro Asn Asp Tyr Thr Ile Val Trp
35 40 45
Ile Cys Ala Leu Pro Leu Glu Ala Ala Ala Ala Ser Ala Met Leu Asp
50 55 60
Lys Thr His Thr Leu Pro Pro Leu Ser Tyr Gly Gln Ala Ile Pro Ser
65 70 75 80
Met Leu Phe Asn Thr His Leu Leu Val His Thr Arg Asp Ile
85 90

<210> 23530
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23530
Leu Val Tyr Thr Arg Thr Arg Gly Leu Asp Leu Val Lys Gln His Glu
1 5 10 15
Ser Ile Glu Phe Val Tyr Val Asn Tyr Ser Glu Ser Ser Thr Ser Cys
20 25 30
Lys Gln Ala Ser Val Cys Thr Gly Gly Glu Arg Val Ala Ile Arg Val
35 40 45
Thr Thr Phe Gln Gly Leu Ile Val Lys Trp Ile Glu Lys His Glu Leu
50 55 60
Thr Ile Lys Val Arg Tyr Asn Lys
65 70

<210> 23531
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23531
Val Ala Arg Ser Phe Gln Pro Arg Gly Glu Asp Glu Ser Asn Val Trp
1 5 10 15
Thr Asn Val Trp Gln Asn Pro Thr Gln His Ala Lys Ser Gly Ser Asp
20 25 30
Lys Asn Ser Leu Cys Gln Arg Phe Asp Ser Thr Thr Leu Leu Ser Phe
35 40 45
Phe Val Ile Ser Asp Cys Phe Tyr Phe Pro Pro Phe Ser Arg His Leu
50 55 60
Thr Ser Ile Ser Leu Cys Gly Arg Ser Cys Phe Val Arg Pro Pro Gly
65 70 75 80
Pro Ser Gly Ser Leu Asn
85

<210> 23532
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23532
Ala Asp Val Val Arg Trp Val Asp Gln Thr Tyr Ile Ala Val Leu Gly
1 5 10 15
Trp Arg Leu Ile Arg Cys Ser Arg Ala Leu Arg Ala Phe Gln Ser Lys
20 25 30
Asp Ser Thr Val Gly Lys Leu Phe Ala Lys His Ile Lys Leu Glu Glu
35 40 45
Ala Lys Gln Phe Leu Gln Arg Ala Arg Tyr Val His Tyr Asp Leu Gly
50 55 60
Leu Asn
65

<210> 23533
<211> 293

<212> PRT
<213> A.fumigatus

<400> 23533
Arg Pro Gly Leu Pro Ala Ser Trp Ala Asp Gly Ser Phe Pro Ser Ser
1 5 10 15
Thr Val Arg Asn Glu Ala Gly His Val Thr Leu Gln Gly Trp Leu Ala
20 25 30
Gln Trp Ser Met Thr Thr Phe Gln Ser Pro Lys Thr Thr Leu Glu Tyr
35 40 45
Leu Ala Tyr Leu Gly Phe Glu Ser Ser Asp Arg Ser Asn Pro Ser Thr
50 55 60
Thr Ala Ala Leu Lys Val Thr Arg Pro Arg Lys Lys Arg Lys Arg Pro
65 70 75 80
Gly Arg Val Gly Arg Asn Val Val Leu Gly His Val Leu Gly Ala Pro
85 90 95
Gly Ser Gly Lys Ser Ala Leu Leu Asp Ala Phe Leu Ala Arg Gly Phe
100 105 110
Ser His Thr Tyr Arg Pro Thr Ile Gln Pro Arg Thr Ala Val Asn Thr
115 120 125
Val Glu Leu Pro Gly Gly Lys Gln Cys Tyr Leu Ile Leu Asp Glu Leu
130 135 140
Gly Glu Leu Glu Pro Ala Ile Leu Glu Asn Gln Ala Lys Leu Leu Asp
145 150 155 160
Gln Cys Asp Val Ile Val Tyr Thr Tyr Asp Ser Ser Asp Pro Asp Ser
165 170 175
Phe Ala Tyr Ile Pro Gln Leu Arg Ser Lys Tyr Pro His Leu Glu Glu
180 185 190
Leu Pro Ser Val Phe Ile Ala Leu Lys Ala Asp Leu Asp Arg Thr Thr
195 200 205
Gln Arg Ala Glu His Gln Pro His Glu Tyr Thr Ala Met Leu Asn Met
210 215 220
Pro Ser Pro Pro Leu His Val Ser Ala Thr Trp Ser Ser Ile Gln Glu
225 230 235 240
Val Phe Val His Ile Ala Asp Ala Ala Met Glu Pro Asn Thr Cys Phe
245 250 255
Pro Arg Ser Glu Glu Asp Val Glu Gly Glu Met Gly Gly Pro Gly Val
260 265 270
Ser His Leu Gly Ala Asn Gly Leu Arg Leu Gly Leu Ala Ala Arg Lys
275 280 285
Asn Leu Ala Asn Lys
290

<210> 23534
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23534
Ala Tyr Leu Gly Ile Pro Ser Ile Phe Trp Tyr Ile Phe Arg Thr Ala
1 5 10 15
Leu Val Val Ile Asn Asn Asn Asn His Arg Gln Ile Val Ser Ile Ser
20 25 30
Leu Ile Val Ile Tyr Asn Phe Phe Phe Ile Ile Ile Leu Val Leu Phe
35 40 45
Leu Phe Gln Leu Ala Leu Thr Pro Leu Asp Lys Arg Gly Gln Lys Ser

```
    50                  55                  60
Pro Ser His Arg His Trp
65                  70

<210> 23535
<211> 272
<212> PRT
<213> A.fumigatus

<400> 23535
Gly Glu Asp Thr Tyr Thr His Gly His His Pro Ser Val Leu Arg Ser
1               5                   10                  15
His Thr Trp Arg Thr Ala Ala Asn Ser Ala Ala Tyr Leu Leu Pro His
            20                  25                  30
Leu Arg Pro Asp Met His Ile Leu Asp Val Gly Cys Gly Pro Gly Thr
        35                  40                  45
Ile Thr Val Asp Leu Ala Arg Leu Ile Pro Gln Gly His Ile Thr Gly
    50                  55                  60
Val Glu Leu Ser Pro Ser Val Leu Glu Gln Ala Arg Ala Leu Ala Ala
65                  70                  75                  80
Asp Gln Ala Leu Thr Asn Val Thr Phe Leu Ser Ala Asp Ala Asn Ala
                85                  90                  95
Leu Pro Phe Glu Glu Gly Thr Phe Asp Leu Val Leu Cys His Gln Val
            100                 105                 110
Leu Gln His Val Arg Asp Pro Val His Ile Leu Ala Glu Met Arg Arg
        115                 120                 125
Val Thr Lys Glu Gly Gly Leu Val Ala Ala Arg Glu Ser Asp Tyr Ala
    130                 135                 140
Gly Phe Val Trp Tyr Pro Ala Ser Pro Gly Leu Asp Val Trp Arg Glu
145                 150                 155                 160
Thr Tyr Leu Lys Val Cys Arg Ala Asn Gly Gly Glu Pro Asn Ala Gly
                165                 170                 175
Arg Met Val His Val Trp Ala Lys Gln Ala Gly Phe Ala Arg Glu Gln
            180                 185                 190
Ile Lys Cys Ser Ser Ser Asn Trp Cys Tyr Ser Thr Pro Glu Glu Val
        195                 200                 205
Glu Trp Trp Ser Gly Leu Trp Ala Glu Arg Thr Val Ala Ser Glu Phe
    210                 215                 220
Gly Arg Thr Ala Arg Glu Asn Ala Gly Val Glu Ala Val Glu Leu Glu
225                 230                 235                 240
Gly Ile Ala Thr Ala Trp Arg Glu Trp Gly Ala Gln Glu Asp Ala Trp
                245                 250                 255
Phe Ser Val Leu Ser Gly Glu Val Leu Cys Val Lys Gly Gly Arg Trp
            260                 265                 270

<210> 23536
<211> 164
<212> PRT
<213> A.fumigatus

<400> 23536
Arg His Leu His Ser Arg Pro Pro Pro Leu Arg Pro Pro Leu Pro His
1               5                   10                  15
Leu Ala His Ser Arg Gln Leu Gly Arg Leu Pro Pro Pro Pro Pro Ala
            20                  25                  30
Pro Arg His Ala His Pro Arg Arg Arg Leu Arg Pro Arg His His His
```

```
        35                  40                  45
Arg Arg Ser Arg Pro Ala Asp Pro Thr Gly Pro His His Arg Cys Gly
    50                  55                  60
Thr Leu Pro Leu Arg Pro Arg Ala Ser Pro Arg Pro Arg Cys Arg Pro
65                  70                  75                  80
Gly Pro His Gln Arg His Leu Pro Leu Arg Gly Arg Gln Arg Pro Pro
                85                  90                  95
Leu Arg Gly Gly Asn Leu Arg Pro Gly Pro Leu Pro Pro Gly Pro Ala
            100                 105                 110
Ala Arg Ala Arg Pro Ser Thr Tyr Pro Ser Gly Asn Ala Pro Gly His
        115                 120                 125
Glu Arg Arg Arg Pro Gly Cys Ser Glu Gly Ile Gly Leu Cys Gly Val
    130                 135                 140
Arg Val Val Pro Gly Phe Pro Arg Ala Gly Cys Leu Ala Gly Asp Val
145                 150                 155                 160
Pro Glu Gly Val
```

<210> 23537
<211> 100
<212> PRT
<213> A.fumigatus

<400> 23537

```
Lys Glu Ser Asn Ser Asn His Leu Asp Leu Ile Thr Val Val Ile Tyr
1               5                   10                  15
Asp Ile Met Ser Leu Ala Gly Ala Asn Glu Gly Ile Ile Tyr His Leu
            20                  25                  30
Pro Pro Leu Thr Gln Ser Thr Ser Pro Asp Lys Thr Glu Asn His Ala
        35                  40                  45
Ser Ser Cys Ala Pro His Ser Leu Gln Ala Val Ala Ile Pro Ser Asn
    50                  55                  60
Ser Thr Ala Ser Thr Pro Ala Phe Ser Leu Ala Val Leu Pro Asn Ser
65                  70                  75                  80
Asp Ala Thr Val Leu Ser Ala Gln Ser Pro Leu His His Ser Thr Ser
                85                  90                  95
Ser Gly Val Leu
            100
```

<210> 23538
<211> 293
<212> PRT
<213> A.fumigatus

<400> 23538

```
Pro Pro Trp Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Thr Gly Pro
1               5                   10                  15
Lys Gly Ser Arg Ala Gln Ser Ala Ile Pro Val Thr Asn Leu Pro Lys
            20                  25                  30
Pro Pro Ile Pro Ala Val Ala Asn Pro Pro Leu Ala Ser Val Pro Gly
        35                  40                  45
Asn Asn Val Ser Gln Gly Pro Ala Leu Ser Ala Ile Thr Glu Ala Thr
    50                  55                  60
Arg Ala Ala Thr Ala Ala Val Ala Ala Ala Met Ala Lys Leu Pro Gln
65                  70                  75                  80
Pro Asn Ala Gln Lys Gln Ser Val Gln Asp Ala Ala Val Asp Ala Val
```

```
                85                  90                  95
Thr Lys Gln Ile Gly Glu Leu Lys Thr His Glu Gly Gly Arg Pro Pro
            100                 105                 110
Arg Gly Gly His Arg Gly Gly Arg Ser Gly His Arg Gly His His Gln
        115                 120                 125
Gly Pro Ala Lys Lys Val Glu Val Pro Asp Thr Asp Tyr Asp Phe Glu
    130                 135                 140
Ser Ala Asn Ala Lys Phe Asn Lys Gln Asp Leu Val Lys Glu Ala Ile
145                 150                 155                 160
Ala Thr Gly Ser Pro Val Thr Glu Ala Gly Ala His Val Glu Asn Gly
                165                 170                 175
Glu Val Glu Ala Val Asp Thr Ala His His Ala Pro Ser Thr Thr Ala
            180                 185                 190
Ser Ala Tyr Asn Lys Ser Ala Ser Phe Phe Asp Asn Ile Ser Ser Glu
        195                 200                 205
Ala Arg Asp Arg Glu Glu Arg Ser Gly Gly Arg Pro Gly Gly Arg Glu
    210                 215                 220
Trp Arg Gly Glu Glu Glu Lys Arg Asn Ile Glu Thr Phe Gly Gln Gly
225                 230                 235                 240
Ser Val Asp Gly Tyr Arg Gly His Tyr Arg Gly Arg Gly Arg Gly Arg
                245                 250                 255
Gly Tyr Gly Gly Arg Gly Arg Gly Gly Tyr Gly Arg Gly Tyr Asn Thr
            260                 265                 270
Arg Asp Arg Gly Asn Tyr Arg Gly Arg Ser Asn Ser Gln Ser Thr Gly
        275                 280                 285
Val Pro Ala Pro Val
    290

<210> 23539
<211> 116
<212> PRT
<213> A.fumigatus

<400> 23539
Arg Ser Pro Arg Ala Ser Leu Arg Leu Ser Gly Met Pro Ser Pro Gly
1               5                   10                  15
Thr Phe Arg Thr Trp Pro Gly Asp Asn Thr Ser Pro Gly Val Leu Gly
            20                  25                  30
Trp Val Ile Ser Met Pro Arg Pro Ser Arg Cys Leu Met Thr Thr Arg
        35                  40                  45
Glu Lys Pro Val Ser Ala Ser Ala Ser Val Thr Ser Met Leu Ala Val
    50                  55                  60
Arg Ser Ala Pro Ala Arg Arg Lys Thr Gly Cys Ser Ser Ser Thr Ile
65                  70                  75                  80
Trp Lys Thr Met Ser Pro Gly Ser Trp Pro Gly Ala Trp Ser Ala Ser
                85                  90                  95
Pro Ser Asn Thr Ile Leu Ser Pro Ser Leu Ser Gly Tyr Leu Ala Arg
            100                 105                 110
Gly Phe Ala Pro
        115

<210> 23540
<211> 195
<212> PRT
<213> A.fumigatus
```

<400> 23540
Gly Ala Asn Pro Leu Ala Lys Tyr Pro Leu Arg Glu Gly Asp Lys Ile
1 5 10 15
Val Leu Glu Gly Glu Ala Asp Gln Ala Pro Gly Gln Glu Pro Gly Asp
20 25 30
Ile Val Phe His Ile Val Glu Glu Glu His Pro Val Phe Arg Arg Ala
35 40 45
Gly Ala Asp Leu Thr Ala Asn Ile Asp Val Thr Leu Ala Glu Ala Leu
50 55 60
Thr Gly Phe Ser Arg Val Val Ile Lys His Leu Asp Gly Arg Gly Ile
65 70 75 80
Glu Ile Thr His Pro Lys Thr Pro Gly Glu Val Leu Ser Pro Gly Gln
85 90 95
Val Leu Lys Val Pro Gly Glu Gly Met Pro Leu Lys Arg Ser Asp Ala
100 105 110
Arg Gly Asp Leu Tyr Leu Val Val Asn Ile Lys Phe Pro Asp Ala Lys
115 120 125
Trp Lys Pro Ser Ala Ala Val Leu Glu Arg Leu Arg Glu Met Leu Pro
130 135 140
Lys Pro Asp Pro Leu Ile Gln Ala Asp Thr Val Asp Glu Val Asp Tyr
145 150 155 160
Asp Pro Lys Gly Asn Leu Asp Asp Phe Gly Ala Arg Asp Gly Gln Gly
165 170 175
Ser Ser Ala Trp Glu Asp Glu Glu Glu Asp Gly Glu Pro Ala Gln Cys
180 185 190
Ala Pro Gln
195

<210> 23541
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23541
Val Asn Pro Arg Ser Arg Gly Trp Thr Glu Leu Leu Thr Ser Val Ile
1 5 10 15
Arg Ile Gln Pro Thr Val Asp Val Phe Glu Lys Arg Ile Ala Ala Leu
20 25 30
Glu Gly Gly Val Ala Ala Val Ala Ala Ser Ser Gly Gln Ala Ala Gln
35 40 45
Phe Met Ala Ile Ala Ala Leu Ala His Ala Gly Asp Asn Ile Val Thr
50 55 60
Thr Ser Asn Leu Tyr Gly Gly Thr Tyr Asn Gln Leu Lys Val Phe Leu
65 70 75 80
Pro Arg Leu Gly Ile Thr Thr Lys Phe Val Gln Gly Asp Arg Pro Glu
85 90 95
Asp Ile Ala Ala Ala Ile Asp Asp Arg Thr Lys Ala Val Tyr Val Glu
100 105 110
Thr Ile Gly Asn Pro Arg Tyr Asn Val Pro Asp Phe Glu Ala Ile Ala
115 120 125
Lys Gly Arg Ser Arg
130

<210> 23542
<211> 89
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (52)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23542
Asp Gln Gln Leu Ser Arg Ile Leu Ala Gly Tyr Phe Leu Thr Asp Pro
1 5 10 15
Leu Ser Thr Asn Arg Cys Ser Lys Phe Arg Leu Pro Thr Cys Val Lys
20 25 30
Pro Ser Trp Asn Trp Val Gly Pro Cys Glu Thr Asn Gln Leu Ala Arg
35 40 45
His Leu Val Xaa Cys Asn Asn Gln Phe Gln Phe Met Asn Cys Arg Val
50 55 60
Asn Pro Thr Pro Asn Asn Asn Ser Pro His Ile Ser Ser Arg Lys Arg
65 70 75 80
Val Pro Lys Gly Leu Ser Pro Gly Asn
85

<210> 23543
<211> 87
<212> PRT
<213> A.fumigatus

<400> 23543
Thr Arg Gln Ser Arg His Ile Lys Glu Leu Asp Gly Pro Ser Leu Ser
1 5 10 15
Ala Val Pro Met Val Pro Asn Ser Glu Arg Asn Ser Asn Arg Thr Leu
20 25 30
Asn Asn Leu Ile Arg Phe Ala Asn Leu Ala Ser Glu Ile His Gln Asn
35 40 45
Ile Val Ser Tyr Pro Glu Ser Asn Leu Tyr Asp Leu Gln Asn Arg Lys
50 55 60
Arg Thr Ser Ser Ile Ser Asn Leu Asp Gly Ala Phe Gln Met Leu Met
65 70 75 80
Gly Ile Leu Arg Lys Pro Ser
85

<210> 23544
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23544
Ser Leu Ala Ala Ile Ile Arg Ser Thr Trp Ala Ala Asn Ser Asp Trp
1 5 10 15
Ile Leu Thr Ala Ala Pro Ile Ala Asp Asn Thr Ile Gln Asn Cys Asp
20 25 30
Glu Val Arg Asp Asn Met Val Asp Leu Ile Lys Pro Cys Lys Asp Ser
35 40 45
Asp Ser Ile Gly Ala Gly Ile Gly Ile Phe Leu Leu Gln His Thr Cys
50 55 60

<210> 23545

<211> 285
<212> PRT
<213> A.fumigatus

<400> 23545
Thr Pro Tyr Leu Arg Val Met Ile Arg Tyr Ser Arg Ile Ala Ala Lys
1 5 10 15
Val Trp Lys Phe Ile Ser Ala Phe Asn Asn Thr Gly Glu Leu Lys Lys
20 25 30
Asp Glu Met Asn Tyr Leu Asp Trp Leu Val Leu Gln Trp Ala Ala Ala
35 40 45
Ile Pro Ala Ser Leu Arg Leu Gly Ala Asp Ser Ser Thr Glu Pro Arg
50 55 60
Ile Leu Arg Arg Leu Arg Ser Leu Leu Phe Leu Arg Ala Asn Gln Leu
65 70 75 80
Arg Met Leu Ile His Arg Pro Val Leu His Ser Ala Gly His Leu Val
85 90 95
Arg Tyr Pro Ala Glu Cys Gln Thr Ala Val Asp Leu Ala Asn Asp Thr
100 105 110
Ile Arg Phe Ile Thr Arg Leu Ile Glu Thr Ser Asp Ile Tyr His Leu
115 120 125
His Gln Val Ala Phe Asn Trp Phe Leu Met Ser Ala Leu Ala Val Leu
130 135 140
Phe Leu Ala Val Val His Ala Pro Ile Gln Phe Ser Ser Arg Cys Lys
145 150 155 160
Glu Glu Phe Tyr Met Ala Leu Glu Leu Val Asn Gly Phe Ser Thr Gln
165 170 175
Ser Tyr Ile Ser Arg Arg Leu Trp Lys Ser Ile Lys Ser Leu Arg Lys
180 185 190
Leu Gly Pro Gln Val Gly Leu Arg Gln Ser Ala Thr Asp Pro Arg Val
195 200 205
Arg Ala Ala His Gln Thr Val Asp Met Ala Pro Thr Ser Asn Pro Ser
210 215 220
Gln Thr Pro Gln Asp Gly Ala Gln Met Thr Gln Glu Leu Met Glu Trp
225 230 235 240
Phe Glu Ala Val Gly Thr Leu Glu Thr Gln Ile Met Gly Val Thr Gln
245 250 255
Val Phe Asp Asp Gly Ser Gly Arg Met Ala Asn Gly Tyr Met Tyr Asp
260 265 270
Tyr Gly Gly Asp Leu Ser Asn Val Met Arg Asp Leu Phe
275 280 285

<210> 23546
<211> 91
<212> PRT
<213> A.fumigatus

<400> 23546
Arg Ala Tyr Ser Pro Ala His Gly Gln Thr Pro Ala Pro Arg Ser Phe
1 5 10 15
Pro Pro Pro Ser Gln Pro Pro Thr Ala Ala Ser Pro Arg Thr Pro Asn
20 25 30
Cys Pro Ser Ala Gly Ala Cys Pro Ser Tyr Pro Ala Thr Asp Glu Gly
35 40 45
Pro Pro Tyr Pro Lys His Arg His Leu Thr Leu Leu Glu His Arg Arg
50 55 60

```
Leu Thr Pro Ile Arg Gly Leu Asp Ile Leu Asp Pro Gln Pro Phe Arg
65                  70                  75                  80
Pro Val Pro Pro Pro Gly Asn Arg Leu Pro Met
                85                  90

<210> 23547
<211> 132
<212> PRT
<213> A.fumigatus

<400> 23547
Arg Ala Arg Asn His Leu Glu Val Ile Ser Gln Thr Lys Thr Leu Ser
1               5                   10                  15
Asn Arg Asp Ser Gln Thr Ser Ser Ile Ser Thr Tyr Leu Ser Cys Thr
            20                  25                  30
Ile Lys Pro Phe Asn Met Lys Pro Ser Ile Val Thr Phe Leu Met Leu
        35                  40                  45
Ala Ala Val Thr Ala Ala Val Ser Ala Glu Asp Pro Thr Met Ser Ala
    50                  55                  60
Leu Lys Ser Arg Val Glu Glu Ile Ala Gly Gln Val His Gly Val Glu
65                  70                  75                  80
Asp Gln Glu Thr Thr Pro Asp Leu Ser His Cys Val Glu Pro Lys Leu
                85                  90                  95
Cys Cys Gly Ser Leu Thr Thr Pro Leu Asp Pro Ile Leu Asp Pro Ile
            100                 105                 110
Leu Leu Ser Leu Gly Ile Asn Ala Ala Gln Asn Asn Trp Phe Pro Leu
        115                 120                 125
Glu Trp Leu Leu
    130

<210> 23548
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23548
Leu Leu Leu Asp Ile Leu Gly Asp Pro Leu Arg His Leu Arg Arg Cys
1               5                   10                  15
Cys Lys Cys Ile Gly Glu Gly Cys Gly Gly Arg Leu Leu Thr Glu Arg
            20                  25                  30
Gln Asn Ala Val Tyr Glu Phe Glu Gln Cys Arg Leu Pro Lys Tyr Ser
        35                  40                  45
Arg Tyr Ala Asp Leu Gln Glu Leu Lys Ser Met Thr Asn Leu Thr Ile
    50                  55                  60
Thr Cys Thr Tyr Thr Ser Leu Met Phe Ser Gln Pro Leu Val Gly Gly
65                  70                  75                  80
Val Tyr Ile Arg Ser His
                85

<210> 23549
<211> 155
<212> PRT
<213> A.fumigatus

<400> 23549
Gly Pro Leu Gly Lys Asn Asp Phe Arg Ala Phe Gln Leu Leu His Cys
```

```
1               5                   10                  15
Gly Pro Phe Met Asp Arg Gln Thr Gly Ala Lys Pro Asp Asp Arg Val
            20                  25                  30
Gly Phe Glu Pro Asp Lys Trp Gln Lys Asp Val Leu Asp Glu Leu Asp
        35                  40                  45
Lys Asn His Ser Val Phe Val Val Ala Pro Thr Ser Ala Gly Lys Thr
    50                  55                  60
Phe Ile Ser Phe Tyr Ala Met Ser Lys Val Leu Gln Glu Asp Asp Thr
65                  70                  75                  80
Gly Val Leu Val Tyr Val Ala Pro Thr Lys Ala Leu Val Asn Gln Ile
                85                  90                  95
Gly Ala Glu Ile His Ala Arg Phe Arg Lys Arg Tyr Ser Gly Pro Glu
            100                 105                 110
Gln Thr Val Trp Ala Ile Ala Thr Arg Asp Val Arg Ile Asn Asp Pro
        115                 120                 125
Leu Lys Cys Gln Ile Leu Val Thr Val Pro His Phe Leu Gln Ile Val
    130                 135                 140
Ser Ala Met Asn Ser Ala Ile Thr Ile Ser Leu
145                 150                 155
```

<210> 23550
<211> 206
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (166)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23550

```
Thr Gln Leu Ser Leu Phe Leu Tyr Asn Tyr Phe Leu Leu Thr Ala Val
1               5                   10                  15
Phe Lys Met Leu Leu Ser Ser Ala Asn Ala Thr Thr Trp Ala Pro Arg
            20                  25                  30
Val Lys Cys Ile Ile Phe Asp Glu Ile His Ser Ile Gly His Thr Asp
        35                  40                  45
Asp Gly Leu Val Trp Glu Gln Leu Leu Leu Leu Ala Pro Cys Arg Ile
    50                  55                  60
Ile Ala Leu Ser Ala Thr Val Gly Asn Pro Ser Glu Phe Ala Asp Trp
65                  70                  75                  80
Leu Gln Ser Thr Gln Asn Asn Met Gly Val Thr Leu Lys Leu Ile Gln
                85                  90                  95
His Thr Gln Arg Tyr Ser Asp Leu Arg Lys Tyr Val Tyr Met Pro Ala
            100                 105                 110
Asp Arg Pro Phe Asp Gly Leu Ser Arg Pro Arg His Lys Gly Leu Leu
        115                 120                 125
Glu Pro Lys Phe Ile Pro Gly Leu His Pro Leu His Pro Ile Thr Ser
    130                 135                 140
Leu Leu Ser Lys Gln Arg Gln Ile Pro Glu Asp Leu Ser Leu Glu Pro
145                 150                 155                 160
Arg Asp Cys Tyr Thr Xaa Trp Arg Cys Met Val Lys Tyr Ser Ser Val
                165                 170                 175
Asp Phe Pro Val Pro Glu Ser Leu Ser Pro Gln Leu Ala Leu Pro Arg
            180                 185                 190
Phe Ile Arg Arg Ser Asp Val Tyr Glu Trp Glu Ala Gln Leu
```

195 200 205

<210> 23551
<211> 114
<212> PRT
<213> A.fumigatus

<400> 23551
Ala Arg Ala Tyr Leu Thr Ile Phe Ile Ser Phe Leu Ser Leu Ala Leu
1 5 10 15
Ser Asn Asp Leu Val Met Ser Ser Ile Leu Thr Leu Ser Ala Ser His
20 25 30
Leu Ala Trp Ile Thr Arg Asn Gln Glu Thr Lys Gln Leu Ala Tyr His
35 40 45
His Arg Gly Ile Ala Ile Lys Gly Leu His Lys Ala Ile Gly Thr Phe
50 55 60
Ser Lys Glu Asn Cys Glu Ala Ile Leu Ala Ser Ser Ile Leu Leu Ser
65 70 75 80
Trp Gln Ala Ser Asp Trp Gln Thr Trp Ala Ser Leu Gln Gln Gly Leu
85 90 95
Ser Thr Val Ser Ile Leu Pro Val Lys Lys Arg Phe Glu Arg Gly Glu
100 105 110
Arg Asn

<210> 23552
<211> 79
<212> PRT
<213> A.fumigatus

<400> 23552
Val Ile Asp Trp Thr Cys Pro Gln Thr Ser Leu Ala Val Ile Val Pro
1 5 10 15
Cys Val Ala Ser Pro Ser Ser Cys Thr Gln Ala Ser Glu Arg Asp Leu
20 25 30
Lys Ala Lys Ser Phe Lys Pro Leu Ala Phe Ser Arg Asp Tyr Ser Gly
35 40 45
Gln Ser Asn Asn Thr Asp Leu Gly Gly Ser Gln Arg Tyr Thr Tyr Val
50 55 60
Ala Glu Asn Ala Ala Leu Arg Arg Thr Arg Ile Cys Phe Glu Asp
65 70 75

<210> 23553
<211> 396
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(12),(18)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23553
Val Val Ser Met Cys Pro Ala Gly Ala Met Xaa Xaa Arg Thr Val Arg
1 5 10 15
Pro Xaa Asp Lys Lys Ala Ala Ser Ile Glu Glu Thr Arg Lys Ser Leu

```
            20                  25                  30
Pro Ile Tyr Gln Phe Arg Asp Gln Ile Ile Gln Ala Val His Asp His
        35                  40                  45
Gln Val Leu Ile Ile Val Gly Glu Thr Gly Ser Gly Lys Thr Thr Gln
    50                  55                  60
Ile Pro Gln Tyr Leu His Glu Ala Gly Phe Thr Lys Asn Gly Met Lys
65                  70                  75                  80
Ile Gly Cys Thr Gln Pro Arg Arg Val Ala Ala Met Ser Val Ala Ala
                85                  90                  95
Arg Val Ala Glu Glu Met Gly Val Lys Leu Gly Asn Glu Val Gly Tyr
            100                 105                 110
Ala Ile Arg Phe Glu Asp Asn Thr Ser Asp Lys Thr Val Leu Lys Tyr
        115                 120                 125
Met Thr Asp Gly Met Leu Leu Arg Glu Leu Leu Thr Glu Pro Asp Leu
    130                 135                 140
Gly Gln Tyr Ser Ala Leu Met Ile Asp Glu Ala His Glu Arg Thr Val
145                 150                 155                 160
Pro Thr Asp Ile Ala Cys Gly Leu Leu Lys Asp Ile Ala Gln Ala Arg
                165                 170                 175
Pro Asp Leu Lys Leu Leu Ile Ser Ser Ala Thr Met Asp Ala Gln Lys
            180                 185                 190
Phe Gln Lys Tyr Phe Asp Asp Ala Pro Ile Phe Asn Ile Pro Gly Arg
        195                 200                 205
Arg Tyr Pro Val Asp Ile His Tyr Thr Ser Gln Pro Glu Ala Asn Tyr
    210                 215                 220
Leu Ala Ala Ala Ile Thr Thr Val Phe Gln Ile His Val Ser Gln Gly
225                 230                 235                 240
Pro Gly Asp Ile Leu Val Phe Leu Thr Gly Gln Glu Glu Ile Glu Ala
                245                 250                 255
Ala Glu Gln Ser Leu Gln Glu Thr Ala Arg Lys Leu Gly Ser Lys Ile
            260                 265                 270
Pro Glu Met Ile Ile Cys Pro Ile Tyr Ala Asn Leu Pro Ser Glu Leu
        275                 280                 285
Gln Ala Lys Ile Phe Glu Pro Thr Pro Pro Lys Ala Arg Lys Val Val
    290                 295                 300
Leu Ala Thr Asn Ile Ala Glu Thr Ser Leu Thr Ile Asp Gly Ile Val
305                 310                 315                 320
Tyr Val Ile Asp Pro Gly Phe Ala Lys Glu Asn Val Phe Asn Pro Arg
                325                 330                 335
Thr Gly Met Glu Ser Leu Val Val Thr Pro Cys Ser Arg Ala Ser Ala
            340                 345                 350
Asn Gln Arg Ala Gly Arg Ala Gly Arg Val Gly Pro Gly Lys Cys Phe
        355                 360                 365
Arg Leu Tyr Thr Arg Trp Ala Tyr Tyr Asn Glu Leu Glu Glu Ser Thr
    370                 375                 380
Thr Pro Glu Ile Gln Arg Thr Val Phe Thr Thr Gly
385                 390                 395
```

<210> 23554
<211> 390
<212> PRT
<213> A.fumigatus

<400> 23554

```
Val Asp Ser Gln Tyr Leu Tyr Phe Pro Gly Cys Met Ile Met Ser Phe
1               5                   10                  15
```

```
Asp Asp Pro Ser Thr Arg Thr Thr Glu Val Lys Leu Val Arg Val Ala
            20                  25                  30
Gln Gly Ile Asn Leu Gln Lys Leu Ala Asn Thr His Arg Ile Tyr Lys
        35                  40                  45
Asn Val Val His Asp Val Ile Gly Val Glu Glu Ala Ile Gln Glu Leu
    50                  55                  60
Glu Asp Ile Gln Lys Lys Pro Pro Arg Phe Asn Lys Trp Ile Val Val
65                  70                  75                  80
Leu Val Tyr Gly Leu Ala Ser Ala Thr Val Gly Pro Phe Ala Phe Asn
                85                  90                  95
Ala Arg Pro Ile Asp Met Pro Ile Ile Phe Phe Asn Gly Cys Leu Leu
            100                 105                 110
Gly Leu Met Gln Gln Val Phe Ala Pro Arg Ser Ala Leu Tyr Ser Asn
        115                 120                 125
Val Phe Glu Val Thr Ala Ala Val Leu Thr Ser Phe Leu Ala Arg Ala
    130                 135                 140
Phe Gly Ser Ile Pro Lys Ala Val Ile Asp Gly Lys Arg Gln Phe Leu
145                 150                 155                 160
Phe Cys Phe Ser Ala Ile Ala Gln Ser Ser Ile Ala Leu Ile Leu Pro
                165                 170                 175
Gly Phe Leu Val Leu Cys Ser Ser Leu Glu Leu Gln Ser His Gln Ile
            180                 185                 190
Ile Ala Gly Ser Ile Arg Met Val Tyr Ala Ile Ile Tyr Ser Leu Phe
        195                 200                 205
Leu Gly Tyr Gly Ile Thr Val Gly Thr Thr Ile Tyr Gly Leu Met Asp
    210                 215                 220
Pro Ser Ala Val Ser Asp Ile Gln Cys Pro Lys Ala Gly Ala Phe Lys
225                 230                 235                 240
Asn Pro Tyr Leu Gln Arg Phe Pro Phe Val Ala Ile Met Thr Val Trp
                245                 250                 255
Leu Leu Ile Ile Asn Gln Gly Lys Trp Lys Gln Leu Pro Val Met Ser
            260                 265                 270
Thr Ile Ala Met Ser Gly Tyr Ile Thr Asn Tyr Phe Ser Thr Lys Arg
        275                 280                 285
Met Gly Ser Asn Ser Gln Val Ala Asn Thr Val Gly Ala Phe Thr Ile
    290                 295                 300
Gly Ile Met Gly Asn Leu Tyr Ser Arg Leu Trp His Gly His Ala Ala
305                 310                 315                 320
Thr Ala Ile Leu Pro Ala Ile Leu Val Leu Val Pro Ser Gly Leu Ala
                325                 330                 335
Ala Ser Gly Ser Leu Ile Thr Gly Val Ala Ser Ala Asp Gln Ile Arg
            340                 345                 350
His Asn Ile Ser Ser Pro Ser Gly Thr Ser Gln Pro Gly Ala Gly Leu
        355                 360                 365
Ser Thr Asn Ser Ser Val Trp Thr Leu Ala Val Ala Met Val Cys Leu
    370                 375                 380
His Ala Gly Ala Pro Gln
385                 390
```

<210> 23555
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23555
Ala Pro Ser Thr Tyr Gly Arg Leu Thr Ala Pro Leu Cys Ala Glu Phe

```
1               5                   10                  15
Glu Thr Ser Ser Val Pro Thr Ser Thr Leu Ser Ser Thr Arg Met Ser
            20                  25                  30
Pro Pro Thr Arg Pro Ala Ser Ser Leu Leu Arg Arg Ser Arg Ser Leu
        35                  40                  45
Arg Ala Ser Ala Leu Ala Arg Met Phe Ser Thr Trp Arg Pro Ala Gly
    50                  55                  60
Leu Thr Leu Val Thr Pro Thr Ala Arg Leu Phe Pro Val Pro Pro Ser
65                  70                  75                  80
Arg Leu Ser Pro Ser Ser Pro Leu Pro Thr Lys Ser Ala Pro Ser Leu
                85                  90                  95
Ser Ser Ser Pro Thr Leu Met Thr Ser Gly Arg Ser Pro Val Ser Ser
            100                 105                 110
Val Ser Ser Ala Thr Gly Val Ala Ser Thr Pro Ser Thr Lys Ala Arg
        115                 120                 125
Val Glu Leu Ala Phe
    130
```

<210> 23556
<211> 108
<212> PRT
<213> A.fumigatus

```
<400> 23556
Asp Ile Val Gly Ala Asn Ile His Pro Phe Phe Asn Ala Asp Val Ser
1               5                   10                  15
Ala Asp Gln Ala Gly Lys Phe Val Ala Gln Glu Ile Lys Val Leu Glu
            20                  25                  30
Ser Ile Cys Pro Gly Lys Asp Val Leu Asn Leu Glu Thr Gly Trp Pro
        35                  40                  45
His Ala Gly Asn Ala Asn Gly Lys Ala Val Pro Gly Thr Ser Glu Gln
    50                  55                  60
Ala Ile Ala Ile Lys Ser Ile Ala Asp Glu Val Gly Ser Lys Ser Val
65                  70                  75                  80
Phe Phe Ser Tyr Phe Asp Asp Leu Trp Lys Glu Pro Gly Gln Phe Gly
                85                  90                  95
Val Glu Arg Tyr Trp Gly Cys Phe Asp Thr Phe Asn
            100                 105
```

<210> 23557
<211> 387
<212> PRT
<213> A.fumigatus

```
<400> 23557
Asn Pro Tyr Glu Val Thr Lys Glu Asp Lys Val Gln Pro Glu Asn Leu
1               5                   10                  15
Pro Pro Ala Gln Ile Ser Leu Thr Asp Cys Leu Ala Cys Ser Gly Cys
            20                  25                  30
Val Thr Ser Ala Glu Ala Val Leu Ile Ser Leu Gln Ser His Thr Glu
        35                  40                  45
Val Leu Asn Thr Leu Asp Ser Tyr Pro Glu Leu Pro Leu Gly Ser Thr
    50                  55                  60
Ser Tyr Gln Arg Gly Thr Gln Lys Val Gly Ser Ala Asp Ser Asp Gly
65                  70                  75                  80
Arg Ile Phe Val Ala Ser Val Ser Pro Gln Val Arg Ala Ser Leu Ala
```

```
                85                  90                  95
Ala Thr Tyr Gly Ile Thr Glu Arg Glu Ala Lys Tyr Met Ile Asp Gln
            100                 105                 110
Phe Leu Met Gly Pro His Gly Leu Arg Ala Gly Gly Lys His Gly Asn
        115                 120                 125
Gly Phe Thr Trp Val Val Asp Thr Asn Val Met Arg Glu Ala Val Leu
    130                 135                 140
Ala Leu Thr Ala Asp Glu Val Thr Ser Ser Leu Leu Ser Thr Gly Ser
145                 150                 155                 160
Gly Ser Leu Pro Lys Ser Pro Ile Leu Ser Ser Ala Cys Pro Gly Trp
                165                 170                 175
Ile Cys Tyr Ala Glu Lys Thr His Pro Phe Ile Leu Pro His Leu Ser
            180                 185                 190
Arg Leu Lys Ser Pro Gln Ala Leu Ser Gly Thr Phe Leu Lys Ser Val
        195                 200                 205
Leu Ser Lys Ala Leu Gly Val Pro Pro Ser Gln Ile Trp His Leu Ala
    210                 215                 220
Ile Met Pro Cys Phe Asp Lys Lys Leu Glu Ala Ser Arg Glu Glu Leu
225                 230                 235                 240
Thr Asp Ile Ala Trp Ala Ser Thr Phe Thr Gln Ser Gln Thr Thr Pro
                245                 250                 255
Val Arg Asp Val Asp Cys Val Ile Thr Thr Arg Glu Leu Leu Thr Leu
            260                 265                 270
Ala Thr Ala Arg Gly Leu Ser Leu Pro Asn Leu Pro Leu Lys Pro Leu
        275                 280                 285
Pro Ala Ser Cys Leu Thr Pro Phe Pro Asp Gln Ala Leu Glu Ser Phe
    290                 295                 300
Leu Phe Ser Lys Ser Ser Ser Gly Gln Thr Val Glu Ser Gly Thr Ser
305                 310                 315                 320
Gly Gly Tyr Leu His His Val Leu Gln Ile Phe Gln Ala Arg Asn Pro
                325                 330                 335
Gly Ser Lys Ile Val Thr Gln Arg Gly Arg Asn Ala Asp Val Val Glu
            340                 345                 350
Tyr Val Leu Met Ser Ser Gly Asp Glu Pro Leu Phe Arg Ala Ala Arg
        355                 360                 365
Tyr Tyr Gly Phe Arg Asn Ile Gln Asn Leu Val Arg Lys Leu Lys Pro
    370                 375                 380
Ala Arg Val
385
```

<210> 23558
<211> 131
<212> PRT
<213> A.fumigatus

<400> 23558

```
Ala Pro Cys Val Ala Leu Cys Cys Leu Ile Leu Thr Ser Thr Asp Gln
1               5                   10                  15
Phe Phe Glu Lys Gln Ser Thr Gln Pro Ser Cys Pro His Leu Leu Leu
            20                  25                  30
Ser Leu Ala Leu Pro Met Ala Ile Ser Thr Pro Met Thr Thr Ser Leu
        35                  40                  45
Ala Ser Ser Leu Pro Ala Glu Cys Ser Leu Leu Leu Leu Thr Leu Ser
    50                  55                  60
Ser Thr Thr Arg Arg Asp Ala Ser Tyr Ser Lys Cys Phe Leu Ala Ala
65                  70                  75                  80
```

```
Asn Arg Val Asn Gly Trp Ala Asp Gly Tyr His Ser Gly Met Gln Pro
                85                  90                  95
Arg Ala Val Gln Gly Met Leu Asp Phe Asp Phe Ile Cys Lys Arg Ser
            100                 105                 110
Thr Pro Ser Val Ala Gly Ile Ile Tyr Thr Phe Gly Gly Gln Phe Val
        115                 120                 125
Ser Lys Met
    130
```

<210> 23559
<211> 89
<212> PRT
<213> A.fumigatus

<400> 23559

```
Leu Trp Asn Arg Arg Tyr Trp Gly Thr Ser Glu Thr Leu Leu Pro Val
1               5                   10                  15
Tyr Gln Asp Val Ala Lys Ala Met Ala Lys His Pro Asp Val Asp Thr
            20                  25                  30
Val Val Asn Phe Ala Ser Ser Arg Ser Val Tyr Ser Ser Thr Met Glu
        35                  40                  45
Leu Met Asn Tyr Pro Gln Ile Lys Ser Ile Ala Ile Ile Ala Glu Gly
    50                  55                  60
Val Pro Glu Arg Val Cys Leu Ala Tyr Ile Tyr Pro His Arg Val Lys
65                  70                  75                  80
Lys Leu Thr Val Gly Thr Ala Cys Ser
                85
```

<210> 23560
<211> 117
<212> PRT
<213> A.fumigatus

<400> 23560

```
Arg Trp Glu Gln Arg Ala Arg Glu Ile Met Val Thr Ala Lys Glu Lys
1               5                   10                  15
Gly Ile Thr Ile Ile Gly Pro Ala Thr Val Gly Gly Ile Lys Pro Gly
            20                  25                  30
Ala Phe Lys Ile Gly Asn Thr Gly Gly Met Met Asp Asn Ile Val Ala
        35                  40                  45
Ser Lys Leu Tyr Arg Lys Gly Ser Val Gly Tyr Val Ser Lys Ser Gly
    50                  55                  60
Gly Met Ser Asn Glu Leu Asn Asn Ile Ile Ser Gln Thr Thr Asp Gly
65                  70                  75                  80
Val His Asp Gly Ile Ala Ile Gly Gly Asp Arg Tyr Pro Gly Thr Thr
                85                  90                  95
Phe Ile Asp His Leu Leu Arg Tyr His Ala Asp Pro Asp Cys Lys Ile
            100                 105                 110
Leu Leu Leu Leu Gly
        115
```

<210> 23561
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23561
Thr Arg Cys Ala Gln Cys His Thr Val Glu Ser Gly Gly Pro His Lys
1 5 10 15
Val Gly Pro Asn Leu His Gly Leu Phe Gly Arg Lys Thr Gly Ser Ala
20 25 30
Glu Gly Tyr Ala Tyr Thr Asp Ala Asn Lys Gln Ala Gly Val Thr Trp
35 40 45
Asp Glu Asn Ser Leu Val Cys Leu Ser Phe Ser Ile Leu Ala
50 55 60

<210> 23562
<211> 188
<212> PRT
<213> A.fumigatus

<400> 23562
Tyr Arg His Arg Ala Phe Gly Leu Leu Leu Tyr Leu Thr Thr Ala Ser
1 5 10 15
Leu Ser Phe Ala Leu Val Phe Asp Lys Arg Ala Met Gln His Pro Lys
20 25 30
Phe Leu Arg His Gln Ile Arg Leu Glu Ile Gly Gln Ala Leu Arg Ala
35 40 45
Met Pro Val Met Ala Ala Leu Thr Ala Pro Leu Phe Leu Ala Glu Val
50 55 60
Arg Gly Tyr Ser Lys Leu Tyr Asp Phe Pro Thr Gly Ser Pro Phe Pro
65 70 75 80
Leu Tyr Thr Tyr Leu Gln Tyr Pro Leu Phe Ile Ala Phe Thr Asp Phe
85 90 95
Ala Ile Tyr Trp Ile His Arg Gly Leu His His Pro Ala Ile Tyr Lys
100 105 110
Arg Leu His Lys Pro His His Arg Trp Ile Ile Ser Thr Pro Tyr Ala
115 120 125
Ser Tyr Ala Phe His Pro Val Asp Gly Trp Cys Gln Ser Leu Pro Tyr
130 135 140
His Val Tyr Pro Phe Leu Phe Pro Leu Gln Lys Ala Ala Tyr Leu Gly
145 150 155 160
Leu Phe Val Phe Val Thr Ile Trp Thr Val Met Ile Arg Glu Ser Pro
165 170 175
Glu Leu Leu Ile Ser Glu Ala Ala Arg Cys Leu Cys
180 185

<210> 23563
<211> 96
<212> PRT
<213> A.fumigatus

<400> 23563
Asn Glu Cys Pro Asp Asp Gly Glu Tyr Ala Leu Asp Ser Pro Val Ile
1 5 10 15
Asn Gly Ser Ala Cys His Thr Ile His His Tyr Tyr Phe Asn Tyr Asn
20 25 30
Tyr Gly Gln Phe Thr Thr Phe Trp Asp Arg Ile Gly Gly Ser Tyr Arg
35 40 45
Arg Pro Asn Arg Glu Leu Phe Asp Lys Gln Gln Arg Leu Gln Gln Thr
50 55 60
Glu Ile Gln Arg Gln Val Glu Glu Met Glu Arg Leu Val Lys Glu Val

65 70 75 80
Glu Gly Ser Asp Asp Arg Cys Tyr Glu Gln Asp Thr Lys Lys Thr Ser
85 90 95

<210> 23564
<211> 224
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (186)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23564
Val Val Met Gly Ser Arg Thr Arg Ser Asp Leu Asn Leu Leu Cys Arg
1 5 10 15
Tyr Leu Thr His Gly Ser Trp Cys Leu Leu Trp Pro Val Gln Leu Leu
20 25 30
Ile Leu Arg Ile Gln Lys Arg Lys Leu Ser Trp Glu Ala Phe Trp Arg
35 40 45
Arg His Val Tyr Leu Leu Arg Thr Thr Ala Gln Met Val Glu Ser Arg
50 55 60
Asp Leu His Leu Thr Ser Arg Asp Leu His Arg Ser Pro Ile Pro Tyr
65 70 75 80
Met Leu Arg Thr Thr Ala Phe Val Thr Val Ala Leu Thr Ile Ala Gly
85 90 95
Gly Ser Trp Tyr Val Ala Val Asn Leu Thr Thr Ala Ser Asp Leu Thr
100 105 110
Ala Ile Tyr Asn Cys Ser Ala Phe Phe Ala Tyr Ala Phe Ser Ile Pro
115 120 125
Leu Leu Asn Asp Lys Leu Arg Cys Asp Lys Val Cys Thr Val Val Ala
130 135 140
Ala Ile Val Gly Val Leu Glu Val Ala Tyr Gly Asp Arg Ser Glu Cys
145 150 155 160
Lys Gln Thr Pro Asp Gly Thr Val Trp Lys Thr Lys Gln Asp Ala Gln
165 170 175
Asn Arg Leu Trp Gly Asn Ile Ile Ile Xaa Val Gly Ser Val Leu Tyr
180 185 190
Cys Leu Tyr Tyr Val Leu His Lys Gln Tyr Ala Cys Ser His Glu Gly
195 200 205
Thr Ser Ala Gly Arg Asn Met Ile Leu Ala Thr Pro Ser Ala Val Val
210 215 220

<210> 23565
<211> 76
<212> PRT
<213> A.fumigatus

<400> 23565
Leu His Tyr Ala Thr Ser Phe Ala Pro Leu Pro Cys Lys Thr Asn Thr
1 5 10 15
Met Glu Tyr Ser His Met His Met Asn Met Ala Phe Ile His Ile Pro
20 25 30
Leu Pro Glu Tyr Arg Asp Ser Ser Asn Tyr Tyr Arg Gly Asn Trp Ser
35 40 45

```
Glu Ala Pro Thr Ala Pro Gly Phe Asn Ser Gly Phe Lys Asp Ala Leu
    50                  55                  60
Glu Glu Glu Gly Ile Leu Phe Val Ser Cys Gly Gln
65                  70                  75

<210> 23566
<211> 91
<212> PRT
<213> A.fumigatus

<400> 23566
Leu Ile Thr Ser Asp His Val Asn Asp Tyr Cys Met Leu Asn Lys Asp
1               5                   10                  15
Arg Asp Gln Lys Pro Ser Leu Trp Met Cys Tyr Gly Gly Gly Ala Gly
            20                  25                  30
Phe Gly Gly Tyr Gly Gly Tyr Gly Gly Tyr Val Arg Arg Val Arg Phe
        35                  40                  45
Tyr Asp Phe Asp Met Asn Pro Gly Arg Val Val Thr Tyr Lys Arg Leu
    50                  55                  60
Glu Tyr Gly Glu Val Glu Ala Lys Ile Asp Glu Met Met Ile Ile Asp
65                  70                  75                  80
Gly Gly Ala Val Lys Gly Pro Asp Glu His His
                85                  90

<210> 23567
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23567
Arg Ser Phe Ser Leu Trp Tyr Arg Glu Leu Leu Ser Phe Lys Val Trp
1               5                   10                  15
Cys Leu Ile Ser Thr Ile Met Lys Val Asn Ala Thr Leu Thr Leu Leu
            20                  25                  30
Leu Leu Gly Leu Ala Val Ala Ser Pro Ala Ser Glu Pro Asn Ser Glu
        35                  40                  45
Asp Ser Leu Gln Gly Met Ser His Ser Leu Ile Ser Gly Leu Ile Tyr
    50                  55                  60
Asn Ala Ile Thr
65

<210> 23568
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23568
Tyr Tyr Arg Asp Asp Ser Ser Ser Ala Asp Trp Asn Ile Ser Ile Arg
1               5                   10                  15
Ile Tyr Asp Thr Gly Cys Lys Phe Cys Cys His Arg Lys Leu Phe Cys
            20                  25                  30
His Phe Ile Tyr Asn Lys Leu Ser Asp Thr Ser Pro Trp Leu Asn Val
        35                  40                  45
Ser Leu Glu Ser Lys Thr Arg Thr Lys Lys Arg Ala Ile Asp Arg Leu
    50                  55                  60
Ser Cys Asp Thr Gln Lys Val Arg
```

65 70

<210> 23569
<211> 264
<212> PRT
<213> A.fumigatus

<400> 23569
Arg Asn Arg Gly Pro Ser Met Pro Val Val Lys Ala Leu Ile Tyr Pro
1 5 10 15
Gln Ala Gln Ser Gly Asp Phe Pro His Leu Leu Met Tyr Gly Pro Ser
20 25 30
Gly Ala Gly Lys Lys Thr Arg Val Ile Ala Thr Leu Lys Glu Leu Tyr
35 40 45
Gly Ser Gly Val Glu Lys Ile Lys Ile Asp Ala Arg Val Phe Gln Thr
50 55 60
Thr Ser Asn Arg Lys Leu Glu Phe Asn Ile Val Ser Ser Val Tyr His
65 70 75 80
Leu Glu Ile Thr Pro Ser Asp Val Gly Asn Tyr Asp Arg Val Val Ile
85 90 95
Gln Glu Leu Leu Lys Glu Val Ala Gln Thr Gln Gln Val Asp Leu Ser
100 105 110
Ala Lys Gln Arg Phe Lys Val Val Val Ile Asn Glu Ala Asp His Leu
115 120 125
Thr Arg Asp Ala Gln Ala Ala Leu Arg Arg Thr Met Glu Lys Tyr Ser
130 135 140
Pro Asn Leu Arg Leu Ile Leu Leu Ala Asn Ser Thr Ser Asn Ile Ile
145 150 155 160
Ala Pro Ile Arg Ser Arg Thr Leu Leu Val Arg Val Ala Ala Pro Thr
165 170 175
Glu Glu Gln Ile Cys Ser Val Leu Gln Asn Ala Gly Lys Arg Glu Gly
180 185 190
Trp Pro Glu Ala Pro Gly Leu Asn Lys Arg Ile Ala Lys Glu Ser Asp
195 200 205
Arg Asn Ile Arg Arg Ala Leu Leu Met Phe Glu Ala Ile Tyr Ala Gln
210 215 220
Thr Trp Val Leu Ser Ala Ile Cys Asp Cys Arg Cys Val Thr Asn Asn
225 230 235 240
Ala Thr Gln Ser Gly Arg Arg Ser Arg Thr Thr Arg Gln Phe Pro Arg
245 250 255
Leu Thr Gly Lys Leu Leu Ser His
260

<210> 23570
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23570
Gln Cys Tyr Ser Ile Arg Glu Lys Val Thr Asp Asn Thr Pro Ile Pro
1 5 10 15
Pro Pro Asp Trp Glu Ala Leu Ile Ser Leu Ile Ala Asp Glu Ile Leu
20 25 30
Ala Glu Arg Ser Pro Ala Arg Leu Leu Gln Val Arg Ala Arg Leu Tyr
35 40 45
Asp Leu Leu Thr His Cys Ile Pro Pro Thr Thr Ile Ile Lys Val

50 55 60

<210> 23571
<211> 288
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23571
Gly Glu Arg Met Arg Gly Ser Phe Arg Pro Leu Trp Trp Lys Thr Thr
1 5 10 15
His Ala Asp Tyr Pro Xaa Lys Lys Arg Pro Arg Val Asp Asp Asp Ser
20 25 30
His Ser Ser Glu Val His Asp Leu Val Arg Pro Arg Pro Leu Ser Trp
35 40 45
Arg Pro Ser Ala Pro Val Glu Pro Pro Leu Gln Ala Ala Gln Leu Arg
50 55 60
Ser Leu Gly Val Leu Ser Ile Leu Asn Ser Pro Thr Lys Ser Ala Pro
65 70 75 80
Pro Cys Leu Val Ser Ser Gly Gly Asp Asn Leu Ser Leu Val Arg His
85 90 95
Gln Ser Ser Ala Pro Pro Cys Ser Pro Ser Ala Pro Ala Ser His Val
100 105 110
Arg Leu His Ser Ser Pro Thr Leu Arg Leu Ala Ser Pro Ser Ile His
115 120 125
Pro Ala Lys Gln Gln Ser Leu Ser Pro Gly Ser Val Asn Arg Gln Ile
130 135 140
Leu Ser Pro Val Ser Pro Thr Ser Arg Phe Val Gly Ala Gly Gly Pro
145 150 155 160
Tyr Ala Arg Lys His Ser Ala Met Gln Ser Pro Leu Ala Gln Glu Ser
165 170 175
Arg Pro Gly Leu Tyr Pro Leu Ser Ser Gly Ser Pro Leu Pro Leu Glu
180 185 190
Asn Ala Thr Val Asn Pro Asn His Gly Pro Glu Thr Ile Ala Pro Val
195 200 205
Pro Val Ser Ile His Ser Thr Gln Pro Phe His Ser Arg Gly Thr Ser
210 215 220
Val Asn Pro Thr Pro Thr Pro Asn Ser Gln Glu Arg Ser Pro Thr Thr
225 230 235 240
Pro Leu Ser Ile Tyr Gly Thr Leu Gly Arg Ser Ser Pro Ala Ile Val
245 250 255
Gly Met Pro Ile Ser Gln Ser Ala Pro Ala Phe Ala Asn Ser Gln Val
260 265 270
Tyr Gly Thr Ser Glu Thr Val Ser Arg Leu Pro Ser Val Val Gly Glu
275 280 285

<210> 23572
<211> 74
<212> PRT
<213> A.fumigatus

<400> 23572

```
Arg Cys Ser Ala Lys Lys Ala Gly Val Thr Leu Phe Val Thr Leu Pro
1               5                  10                  15
Gly Asn Glu Arg Gly Ser Glu Pro Ile Ala Thr Ile Ala Lys Leu Lys
            20                  25                  30
Thr His Val Tyr Tyr Lys Gly Asn Leu Val Met Ile Ala Lys Leu Ala
        35                  40                  45
Asn Val Val Ser Val Tyr Val Pro Gly Lys Cys Pro Ala Trp Thr Val
    50                  55                  60
Glu Val Ala Glu Gly Met Val Tyr Leu Trp
65                  70
```

<210> 23573
<211> 111
<212> PRT
<213> A.fumigatus

<400> 23573

```
Arg Asn Lys Arg Pro Leu Tyr Ser Ile Leu Ala Trp Ala Asp His Leu
1               5                  10                  15
Pro Ser Val Asn Asn Asn Leu His Ile Ser Val Ser Met Pro Cys Ile
            20                  25                  30
Glu Val Gly Thr Ile Gly Gly Gly Thr Ile Leu Glu Pro Gln Ala Ala
        35                  40                  45
Met Leu Asp Leu Leu Gly Val Arg Gly Ala His Ala Thr Asn Pro Gly
    50                  55                  60
Asp Asn Ala Arg Gln Leu Ala Arg Ile Val Ala Ala Ala Val Leu Ala
65                  70                  75                  80
Gly Glu Leu Ser Thr Cys Ala Ala Leu Ala Ala Gly His Leu Val Ser
                85                  90                  95
Ala His Met Ala His Asn Arg Ser Lys Val Ala Ala Lys Thr Gly
            100                 105                 110
```

<210> 23574
<211> 104
<212> PRT
<213> A.fumigatus

<400> 23574

```
Arg Gln Leu Ala Trp Asn Leu Ser Ala His Ser Lys Ala Trp His His
1               5                  10                  15
Gln Asn Tyr Ser His Ser Lys Leu Pro Pro Ala Leu Asp Thr Lys Asp
            20                  25                  30
Val Asp Ala Asp Pro Val Pro Leu His Val Lys Gln His Ser Gln Ser
        35                  40                  45
Leu Pro Gly Gly Asp Phe Thr Ile Ser Thr Tyr Pro Thr Asp Asp Ser
    50                  55                  60
Pro Leu Gly Thr Lys Leu Phe Ser Val Lys Gly Asp Phe Gly Trp Leu
65                  70                  75                  80
Ser Ser Lys Arg His Leu Ser Asp Ile Ser Gly Leu Pro Leu Phe Asp
                85                  90                  95
Ala Ala Ala Gln Lys Lys Pro Ala
            100
```

<210> 23575
<211> 83
<212> PRT

<213> A.fumigatus

<400> 23575

```
Arg Ser Leu Leu Leu Val Tyr Leu Val Ser Lys Leu Ala Val Cys Leu
1               5                  10                  15
Lys Thr Asp Leu Leu Ala Asn Tyr Asn Phe Ile Phe Asn Leu Leu Asp
            20                  25                  30
Gly Leu Thr Leu Asn Arg Ala Thr Ile Tyr Thr His Ile Ile Asn Tyr
        35                  40                  45
Lys Phe Ser Phe Ile Lys Val Cys Asn Glu Thr Pro Thr Leu Ile Ile
    50                  55                  60
Ile Thr Tyr Tyr Thr Tyr Ile Gly Thr Ile Ser Asn Thr Asn Phe Ile
65                  70                  75                  80
Thr Ala Tyr
```

<210> 23576
<211> 234
<212> PRT
<213> A.fumigatus

<400> 23576

```
Phe Lys Cys Asn Arg Ser Asp Trp Gln Leu Asp Ile Lys Ser Leu Glu
1               5                  10                  15
Phe Tyr Glu Ala Ser Ser Ile Asn Ala Ala Leu Arg Ser Phe Ser His
            20                  25                  30
Ser Ile Asn Phe Arg Arg Thr Ala Asp Ile Asn Asp Ile Ser Ala Lys
        35                  40                  45
Pro Gln Arg Lys Val Val Phe Pro Ala Ser Ala Pro Val Ser Arg Phe
    50                  55                  60
Val Glu Lys Thr Ala Ile Arg Tyr Arg Leu Lys Asn Thr Lys Tyr Ile
65                  70                  75                  80
Leu Glu Ile Ala Arg Tyr Asp Glu Tyr Ser Arg Met Thr Leu Pro Gly
                85                  90                  95
Tyr Gly Gly Gln Ser Pro Ala Ala Ile Thr Gly Pro Ile Ser Glu Val
            100                 105                 110
Pro Ser Ser Ser Trp Gly Ala Ser Ile Phe Asp Pro Asn Trp Asp Asn
        115                 120                 125
Leu Leu Gly Gln His Ala Asn Ile Pro Leu Gly His Thr Ala Arg Tyr
    130                 135                 140
Ser Pro Ser Leu Asn Thr Phe Phe Pro Ser Ile Glu Glu Thr Thr Gly
145                 150                 155                 160
Gly Lys Cys Lys Gly Phe Trp Glu Leu Ile Ala Leu Val Arg Gln Val
                165                 170                 175
Ala Glu Leu Leu Gly Ser Thr Asn Thr Ala Ala Glu Asn Gly Lys Gln
            180                 185                 190
Arg Val Pro Lys Ser Pro Ser Ser Glu Lys Ser Asp Glu Ala Gly Thr
        195                 200                 205
Ala Arg Gln Lys His Gln Gln Phe Asn Asn Gly Pro Gln Met Arg Val
    210                 215                 220
Leu Leu Asp Ala Asp Leu Gly Thr Leu Phe
225                 230
```

<210> 23577
<211> 260
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (246)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23577
Ser Lys Pro Ala Glu Pro Gln Gly Gln Pro Thr Thr Thr Ser Asp Tyr
1 5 10 15
Phe Ala Ser Ser Lys Arg Asn Thr Lys Pro Gly Lys Ser Glu Asp Val
20 25 30
Ala Lys Thr Lys Glu Val Arg Pro Ser His Thr Ala Ser Leu Asn Gly
35 40 45
Arg Asp Ala Glu Asp Ala Ser Glu Thr Lys Asn Lys Lys Thr Leu Asp
50 55 60
Gln Ser Pro Arg Gln Ser Ser Arg Arg Thr Ala Asn Lys Ser Thr Val
65 70 75 80
Val Leu Gln Asp Asp Asp Gly Leu Gly Asn Asp Asp Ile Phe Ala Thr
85 90 95
Asp Tyr Arg Lys Pro Gly Gln Tyr Asp Asp Asp Tyr Val Glu Glu Asp
100 105 110
Glu His Asp Gly Asp Asp Asp Phe Glu Lys Met Glu Val Lys Pro Ala
115 120 125
Ser Ala Ala Ser Gly Gln Ser Ser Arg Arg Lys Asn Ala Asn Ala Ala
130 135 140
Glu Ser Ala Asp Val Ala Met Asn Asp Ala Pro Ala Glu Pro Lys Ser
145 150 155 160
Ala Ser Arg Thr Gly Gln Lys Arg Lys Ser Ala Ala Ile Asp Arg Asp
165 170 175
Gly Asp Tyr Glu Asp Cys Lys Thr Ser Lys Gly Pro Ala Arg Thr Arg
180 185 190
Ala Ile Pro Ser Ala Pro Ala Ala Lys Lys Gln Arg Gly Val Ala Thr
195 200 205
Lys Lys Asp Glu Pro Glu Ser Lys Glu Ile Gln Asp Ile Phe Asp Ser
210 215 220
Ile Pro Thr Ile Lys Pro Pro Ser Pro Pro Pro Pro Ser Gly Glu Lys
225 230 235 240
Ala Lys Phe Asn Phe Xaa Ala Thr His Arg Cys Arg Asp Pro Val Glu
245 250 255
Ile Arg His Gly
260

<210> 23578
<211> 276
<212> PRT
<213> A.fumigatus

<400> 23578
Asn His Ser Arg Arg Phe Asp Arg Trp Asn Gly Arg Leu Val Asp Lys
1 5 10 15
Ala Arg Gly Asn Arg Leu Phe Arg Phe Val Ser Asp Arg Asn Glu Gly
20 25 30
Asn Phe Ser Arg Leu Leu Thr Pro Phe Thr Gly Ala Ser Ser Ser Val
35 40 45
Val Pro Leu Arg Ala Leu Leu Lys His Gly Phe Asp Leu Asn Phe Pro

```
    50                  55                  60
Ala Ser Pro Asn Lys Pro Ala Glu Arg Val Pro Leu Lys Ser Gln Leu
65                  70                  75                  80
Leu Ser Thr Ala Pro Ser Gly Leu Ile Glu Gln Ala Phe Met Asp Ala
                85                  90                  95
Phe Phe Leu Asn Tyr His Thr Ser Tyr Pro Phe Val His Glu Ala Thr
            100                 105                 110
Phe Lys Ala Gln Phe Tyr Glu Gln Val Pro Arg Pro His Gly Gln Ala
        115                 120                 125
Trp Gln Ile Leu Leu Asn Thr Ile Leu Ala Leu Gly Ala Trp Ser Ile
    130                 135                 140
Gly Asp Asp Asn Ser Asp Leu Asp Ile Thr Phe Tyr Gln Glu Ala Arg
145                 150                 155                 160
Ser His Leu Gln Gln Val Ser Val Phe Glu Thr Gly Asn Leu Thr Leu
                165                 170                 175
Ile Leu Ala Leu Leu Leu Leu Ser Asn Tyr Ala Gln Lys Arg Asn Lys
            180                 185                 190
Pro Asn Thr Gly Trp Asn Phe Leu Gly Leu Ala Val Arg Met Ala Met
        195                 200                 205
Ser Leu Gly Leu His Lys Glu Phe Pro Gly Trp Lys Ile Ser Leu Leu
    210                 215                 220
Gln Arg Glu Met Arg Arg Arg Leu Trp Trp Gly Val Tyr Ile Phe Asp
225                 230                 235                 240
Ser Gly Ala Ala Lys Thr Phe Gly Arg Pro Ile Leu Leu Pro Glu Asp
                245                 250                 255
Ser Val Met Asp Ala Lys His Val Leu Asn Ile His Asp Glu Val Tyr
            260                 265                 270
Gln Ser Pro Pro
        275
```

<210> 23579
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23579

```
Ala Leu Thr Ser Thr Thr Thr Val Leu Pro Thr Glu Glu Asn Gly Pro
1               5                   10                  15
Thr Ile Tyr Ser Gly Met Ile Ala Gln Ala Lys Phe His Leu His Thr
            20                  25                  30
Asn Ser Val Tyr Gln Arg Leu Ile Ser Thr Pro Ser Leu Thr Ala Glu
        35                  40                  45
Glu Thr Leu Gly Leu Ser Lys Pro Met Glu Asp Trp Tyr Val Leu His
    50                  55                  60
Gln Thr Gly Cys Lys Asp Met Arg
65                  70
```

<210> 23580
<211> 71
<212> PRT
<213> A.fumigatus

<400> 23580

```
Leu Thr Asn Thr Glu Tyr Glu Asn Leu Leu Pro Asn Gly Lys Thr Asp
1               5                   10                  15
Gln Tyr Ile Gln Cys Thr Arg Gln Arg Leu Asp Ser Pro Val Lys Tyr
```

```
            20                  25                  30
His Phe Phe Arg Pro Lys Thr Pro Gly Gly Arg Asp Ile Leu Phe Leu
        35                  40                  45
Gly Ser Leu Glu Leu Glu Thr Thr Asp Asp Arg Leu Tyr Thr Arg Lys
    50                  55                  60
Ser Ser Thr Trp Ala Ala Ser
65                  70
```

<210> 23581
<211> 175
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23581

```
Ser Leu Cys Ile Ser Tyr Pro His Ile Leu Ile Thr Gly Xaa Glu Ala
1               5                   10                  15
Met Val Ile Leu Pro Val Lys Ser Ile Leu Arg Val Ile Ser Ser Ser
            20                  25                  30
Ile Leu Phe Leu Arg Val Leu Phe Trp Gly Lys Thr His Gln Thr Gln
        35                  40                  45
Glu Ser Leu Asp Leu Leu Asp Gln Ala Ile Ala Val Trp Thr Ser Asp
    50                  55                  60
Leu Leu Asp Asp Ile Tyr Leu Val Ser Arg Tyr Ala Ala Leu Leu Lys
65                  70                  75                  80
Ile His Val Ser Arg Leu Gly Arg Pro Phe Ala Asn Cys Ser Arg Phe
                85                  90                  95
Ser Ser Lys Gly Glu Ser Tyr Thr Gln Glu Pro Gly Thr Pro Val Pro
            100                 105                 110
Thr Ala Ala Glu Arg Phe Asp Trp Asp Pro Ser Met Met Asp Leu Gly
        115                 120                 125
Glu Ala Asn Gly Ser Asp Asp Trp Leu Ser Leu Leu Leu Asp Pro Leu
    130                 135                 140
Met Ala Pro Phe Gly Ser Trp Asp Asn Gly Leu Thr Asp Leu Gly Thr
145                 150                 155                 160
Ala Ser Gly Asp Leu Asn Leu Asp Phe Val Trp Asn Leu Pro Pro
                165                 170                 175
```

<210> 23582
<211> 73
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (52),(55),(67),(68)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23582

```
His Leu Phe Leu Ile Ser Ser Met Cys Leu Phe Asn Gln Tyr Thr His
1               5                   10                  15
Ile Thr Ser Val Pro Asn Phe Pro Cys Ser Thr Glu Leu Ser Ile Thr
```

```
            20                  25                  30
Thr Thr Glu Ala Leu Gly Gly Lys His Lys Thr Gln Ile Pro Val Tyr
        35                  40                  45
Thr Trp Ser Xaa Tyr Cys Xaa Asn Arg Pro Gly Trp Pro Glu Met Gly
    50                  55                  60
Ser Ile Xaa Xaa Asp Ser Ala Ala Pro
65                  70
```

<210> 23583
<211> 483
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (137),(140)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23583

```
Gly Leu Phe Leu Arg Leu Leu Asp Ser Asn Ile Val Ile Asn Leu Arg
1               5                   10                  15
Asp Tyr Ser Phe Ile Asn Thr Ile Asn Phe Tyr Ser Lys Leu Lys Gln
            20                  25                  30
Asp Ile Ser Leu Leu Lys Leu Thr Ile Ser Ala Pro Thr Met Tyr Glu
        35                  40                  45
Leu Leu Ala Phe Ile Thr Ile Pro Trp Val Ile Ala His Pro Arg Leu
    50                  55                  60
Phe Met Ala Val Ala Ala Ala Thr Thr Tyr Phe Met His Ser Thr Gly
65                  70                  75                  80
Arg Thr Phe His Asn Val His Ala Asn Met Ala Ser Gln Val Thr Gly
                85                  90                  95
Ile Leu Pro Glu Asp Leu Arg Arg Asp Asp Val Leu Ser Asn Arg Met
            100                 105                 110
Thr Val Val Phe Leu His Leu Phe Val Phe Arg Tyr Leu Arg Leu Ile
        115                 120                 125
Val His Leu Ile Ser Phe Trp Leu Xaa Tyr His Xaa Thr Pro Val Pro
    130                 135                 140
Lys Asn Pro Ala Leu Ser Pro Ser Asp Cys Thr Ile Ile Leu Pro Thr
145                 150                 155                 160
Ile Asp Pro Lys Asn Arg Asp Phe Glu Glu Cys Ile Thr Ser Cys Leu
                165                 170                 175
Arg Asn Thr Pro Gly Ala Ile Ile Ile Val Thr Val Gly Asp Gln Leu
            180                 185                 190
Thr Lys Leu Thr Lys Asp Ile Ile Ala Pro Tyr Lys Arg Ile Phe Pro
        195                 200                 205
Asn Thr Glu Ile Ser Val Arg Thr Ala Asp Glu Ala Asn Lys Arg Arg
    210                 215                 220
Gln Val Ala His Gly Leu Arg Tyr Val Lys Thr Lys Ile Thr Val Leu
225                 230                 235                 240
Leu Asp Asp His Val Val Trp Pro Thr Glu Arg Phe Leu Pro Thr Ile
                245                 250                 255
Leu Ala Pro Phe Glu Asp Pro Lys Val Gly Ile Val Gly Thr Asn Lys
            260                 265                 270
Arg Val Arg Arg Thr Asp Thr Gly Phe Asn Ile Arg Ser Phe Trp Asn
        275                 280                 285
Met Leu Gly Ala Leu Tyr Leu Glu Arg His Asn Phe Glu Ile Arg Ala
```

```
    290                 295                 300
Thr Asn Ala Ile Asp Asn Gly Val Phe Val Val Ser Gly Arg Thr Ser
305                 310                 315                 320
Ala His Arg Ser Glu Ile Leu Lys Asp Pro Lys Phe Ile Ala Glu Phe
                325                 330                 335
Thr Asn Glu Arg Phe Phe Phe Gly Leu Phe Gly Pro Leu Asn Ala Asp
            340                 345                 350
Asp Asp Asn Phe Ile Thr Arg Trp Asp Val Arg His Gly Trp Lys Val
        355                 360                 365
Lys Ile Gln Tyr Cys Pro Asp Ala Met Ile Glu Thr Thr Leu Gly Thr
    370                 375                 380
Tyr Pro Lys Phe Leu Ser Gln Cys Leu Arg Trp Val Arg Thr Thr Trp
385                 390                 395                 400
Arg Ser Asn Ser Ala Ser Leu Phe Thr Asp Arg Thr Val Trp Tyr Thr
                405                 410                 415
Gln Pro Trp Cys Val Tyr Ala Val Tyr Trp Thr Ser Phe Val Asn Phe
            420                 425                 430
Ala Leu Phe Tyr Asp Gly Ala Leu Ala Tyr Thr Leu Leu Lys Ser Pro
        435                 440                 445
Leu Gly Thr Ala Asp Asn Leu Lys Tyr Leu Ala Ala Trp Ile Phe Cys
    450                 455                 460
Thr Lys Met Val Lys Leu Thr Pro Tyr Phe Leu Arg Glu Pro Gln Asp
465                 470                 475                 480
Leu Val Met
```

<210> 23584
<211> 428
<212> PRT
<213> A.fumigatus

```
<400> 23584
Asn Pro Trp Thr Arg Ala Ser Arg Arg Arg Ser Pro Arg Pro Lys Gly
1               5                   10                  15
Gly Lys Cys Ser Pro Arg Pro Asn Thr Arg Ala Glu Phe Gly Met Phe
            20                  25                  30
Gly Glu Trp Gly Pro Ser Pro Pro Ala Met Phe Gly Ile Leu Arg Pro
        35                  40                  45
Arg Leu His Arg Ser Ala Asp Thr Pro Ser Phe Leu Arg Pro Val Pro
    50                  55                  60
Arg Phe Gly Ser Pro Leu Asp Thr Ile Pro Lys Arg Ser Ser Ser Phe
65                  70                  75                  80
Gly Arg Trp Thr Glu Gln Gln Arg Gln Asn Asp Arg Ser Met Val Ser
                85                  90                  95
Arg Pro Arg Asn Met Gly Glu Thr Ala Glu Thr Thr Asp Pro Gly Ser
            100                 105                 110
Pro Met Thr Val Arg Pro Arg Thr Ser Leu Asp Gly Asp Leu Phe Gln
        115                 120                 125
Pro Ser Arg Glu Gly Leu Phe Phe Pro Arg Pro Ala Pro Val Ser Pro
    130                 135                 140
Leu Phe Ser Ser His Gly Ala Gly Gly Ala Gly Gln Val Arg Pro Ala
145                 150                 155                 160
Ala His Pro Leu Ser Arg Thr Ile Thr Gln Ser Ser Ser Asn Ser Ser
                165                 170                 175
Leu Ala Asp Asp Ser Pro Thr His Glu Pro Met His Lys Ser Glu Arg
            180                 185                 190
```

```
Pro Arg Gly Val Phe Asp Phe Ser Lys Ser Leu Pro Ala Gly Ala Thr
        195                 200                 205
Arg Pro Gly Val Val Arg His Leu Asn Arg Glu Asp Ser Thr Ser Ser
    210                 215                 220
Val Asp Ser Phe Ala Thr Pro Glu Asn Tyr Lys Leu Val Lys Pro Leu
225                 230                 235                 240
Pro Ala Ala Phe Met Ser Thr Gly Leu Ile Ser Lys Lys Asn Arg Asn
                245                 250                 255
Ala Gly Asp His Gln Asn Met Leu Gly Phe Asn Lys Asn Met Pro Asp
            260                 265                 270
Thr Pro Cys Lys Arg Pro Ile Asn Leu Phe Pro Thr Gly Gln Lys Pro
        275                 280                 285
Met Ser Glu Trp Glu Arg Pro Arg Leu Met Pro Gln Ala Asp Val Val
    290                 295                 300
Pro Ser Pro Ser Pro Ser Asn Pro Pro Ser Ala Arg Pro Thr Ser Gly
305                 310                 315                 320
Pro Phe Ala Arg Gly Met Gly Ile Phe Gly Asn Ser Phe Asn Lys Pro
                325                 330                 335
Asp Leu Ser Arg Arg Gly Ser Leu Val Ser Val Asp Gly Asp Glu Leu
            340                 345                 350
Thr Gln Ser Gln Ser Pro Cys Ala Gln Pro Asp Ser Gln Pro Leu Ser
        355                 360                 365
Glu Tyr Asp Leu Pro Pro Thr Pro Thr Lys Gln Thr Phe Phe Pro Ser
    370                 375                 380
Arg Thr Tyr Pro Pro Ala Thr Gln Gln Ile Ala Ser Leu Glu Arg Leu
385                 390                 395                 400
Ser Glu Val Leu Gly Asn Asn Ser Ser Pro Leu His Asp Arg Phe Gln
                405                 410                 415
Arg Ser Ser Pro Arg Gly Trp Lys Glu Arg Val His
            420                 425
```

<210> 23585
<211> 292
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (38)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23585

```
Ile Tyr Val Gly Pro Val Trp Glu Arg Ile Leu Ser His Ile Gly Gly
1               5                   10                  15
Val Tyr Asn Ile Pro Asn Phe His Val Arg Gly Gly Val Cys Gln Thr
            20                  25                  30
Asn Ile Val Ser Asn Xaa Ala Phe Arg Gly Phe Gly Gly Pro Gln Gly
        35                  40                  45
Met Phe Phe Ala Glu Ser Phe Met Glu Glu Ile Ala Asp His Leu Asp
    50                  55                  60
Ile Pro Val Glu Gln Phe Arg Gln Gln Asn Met Tyr Gln Pro Gly Asp
65                  70                  75                  80
Lys Thr His Phe His Gln Glu Leu Lys Asp Trp His Val Pro Leu Met
                85                  90                  95
Tyr Asn Gln Val Leu Glu Glu Ser Ala Tyr Ala Glu Arg Arg Lys Ala
            100                 105                 110
```

```
Val Glu Glu Tyr Asn Lys Lys His Lys Trp Ser Lys Arg Gly Met Ala
        115                 120                 125
Ile Ile Pro Thr Lys Phe Gly Ile Ser Phe Thr Ala Leu Phe Leu Asn
    130                 135                 140
Gln Ala Gly Ala Leu Val His Ile Tyr His Asp Gly Ser Val Leu Val
145                 150                 155                 160
Ala His Gly Gly Val Glu Met Gly Gln Gly Leu His Thr Lys Met Thr
                165                 170                 175
Met Ile Ala Ala Glu Ala Leu Gly Val Pro Gln Ser Asp Val Phe Ile
            180                 185                 190
Ser Glu Thr Ala Thr Asn Thr Val Ala Asn Thr Ser Ser Thr Ala Ala
        195                 200                 205
Ser Ala Ser Ser Asp Leu Asn Gly Tyr Ala Ile Phe Asn Ala Cys Glu
    210                 215                 220
Gln Leu Asn Glu Arg Leu Arg Pro Tyr Arg Glu Lys Met Pro Gly Ala
225                 230                 235                 240
Ser Met Lys Glu Leu Ala His Ala Ala Tyr Phe Asp Arg Val Asn Leu
                245                 250                 255
Ser Ala Gln Gly Phe Tyr Arg Thr Pro Asp Ile Gly Tyr Val Trp Gly
            260                 265                 270
Glu Asn Lys Ala Gln Met Phe Val Phe Tyr His Glu Ala Ala Arg Ile
        275                 280                 285
Arg Val Leu Gly
    290
```

<210> 23586
<211> 175
<212> PRT
<213> A.fumigatus

```
<400> 23586
Cys Ala Thr Gln Asn His Pro Leu Pro Ile Tyr Ser His Arg Phe Ala
1               5                   10                  15
Ser Ser Ala Thr Tyr Ser Leu Leu Ser Ser Arg Ala Val Ile Asp His
            20                  25                  30
Arg Ile Leu Ile Ser Arg Ile Ala Ile Met Thr Asp Met Val Gly Gly
        35                  40                  45
Gln Ser Asp Asp Val His Gln Val Pro Pro Pro Leu Pro Pro Ala Pro
    50                  55                  60
Met Glu Asn Tyr Thr Phe Pro Glu His Arg Leu Lys Arg Lys Met Asp
65                  70                  75                  80
Asp Pro Glu Lys Thr Pro Leu Leu Leu Val Ala Cys Gly Ser Phe Ser
                85                  90                  95
Pro Ile Thr Tyr Leu His Leu Arg Met Phe Glu Met Ala Ala Asp Tyr
            100                 105                 110
Val Lys Phe Ser Thr Asp Phe Glu Leu Ile Gly Gly Tyr Leu Ser Pro
        115                 120                 125
Val Ser Asp Ala Tyr Arg Lys Ala Gly Leu Ala Ser Ala Glu His Arg
    130                 135                 140
Tyr Glu Ile Ser Arg Leu Phe Tyr Pro Leu Val Gln Thr Ala Asp Ala
145                 150                 155                 160
Met Cys Leu Met Thr His Gln Gly Cys Tyr Val Pro Thr Cys Gly
                165                 170                 175
```

<210> 23587
<211> 131

<212> PRT
<213> A.fumigatus

<400> 23587
Ala Lys Phe Pro Pro Leu Val Leu Arg Pro Ser Val Asn Glu Ser Ala
1 5 10 15
His Val Ala Trp Pro Ile Ala Asp Glu Ala Leu Thr Gln Asn Leu Leu
20 25 30
Asp Leu Val Gln Gln Ala Ser His Tyr Arg Gln Leu Lys Lys Gly Ala
35 40 45
Asn Glu Gly Met Pro Val Trp Leu Ser Phe Cys Leu Leu Phe Leu Thr
50 55 60
Asp Ile Leu Pro Gln Leu Pro Arg Leu Ser Ile Val Val Pro Pro Lys
65 70 75 80
Leu Ser Ser Ser Leu Pro Thr Pro Pro Pro Trp Leu Ser Cys Phe Thr
85 90 95
Phe Leu Phe Phe Ala Lys Ile Arg Thr Tyr Gly Phe Ser Phe Arg Tyr
100 105 110
Thr Ser Leu Leu Arg Ser Asn Thr Asn Tyr Gln Ser Gly Ser Leu Arg
115 120 125
Val Arg Ser
130

<210> 23588
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40),(73)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23588
Glu Arg Thr Val Ser Pro Ser Asp Ile Leu Leu Tyr Ser Gly Arg Ile
1 5 10 15
Leu Thr Ile Asn Gln Val Pro Tyr Val Tyr Val Pro Ser Lys Leu Ala
20 25 30
Leu Gly Arg Ala Thr Gly Val Xaa Arg Pro Val Ile Ala Ala Ser Ile
35 40 45
Thr Thr Asn Glu Ala Ser Asp Leu Met Gly Gln Ile Arg Thr Ile Lys
50 55 60
Asp Lys Val Glu Arg Leu Met Ile Xaa Thr Trp Phe Arg Ser Val Asp
65 70 75 80
Glu

<210> 23589
<211> 115
<212> PRT
<213> A.fumigatus

<400> 23589
Lys Leu Ser Leu Phe Phe Tyr Arg Leu Ser Leu Pro Val Ala Ile Thr
1 5 10 15
Met Pro Val Thr Ala Ser Arg Ala Val Leu Arg Gln Ser Gln Phe Leu

```
            20                  25                  30
Thr Arg Arg Thr Ala Val Arg Tyr Ala Ser Asn Thr Ser Glu Ala Ala
        35                  40                  45
Ser Lys Ala Ser Gln Thr Ala Ser Ser Ala Val Ser Lys Ala Ser Glu
    50                  55                  60
Gly Leu Ser Arg Val Thr Ser Thr Ala Gly Pro Ala Ile Ser Asn Ala
65                  70                  75                  80
Ala Gln Gly Leu Gly Ser Ala Leu Arg Lys Val Gly Gly Arg Thr Gly
                85                  90                  95
Lys Val Ile Ala Phe Val Ser Ser Pro Thr Gly Leu Glu Arg Ser Ala
            100                 105                 110
Leu Cys Asp
        115
```

<210> 23590
<211> 97
<212> PRT
<213> A.fumigatus

<400> 23590

```
Arg Gly Ser Phe Glu Pro Arg Gly Glu Asp Tyr Ser Gly Gln Asn Gly
1               5                   10                  15
Lys Asn Gln Arg Val Leu Thr Trp Leu Ala Ser Asp Ser Arg Thr Asp
            20                  25                  30
Pro Gln Ala Lys Gly Lys Thr Thr Glu Ser Phe Thr Gly Asp Leu Leu
        35                  40                  45
Pro Leu Ile Thr Asp Leu Tyr Ser Met Thr Gly Glu Ala Tyr Pro Ser
    50                  55                  60
Lys Ser Asp Tyr Met Gly Ile Phe Gln Phe Gly Thr Glu Ala Phe Ser
65                  70                  75                  80
Ser Ser Thr Asn Val Thr Phe Trp Ala Pro Lys Phe Ser Val Asp Leu
                85                  90                  95
Arg
```

<210> 23591
<211> 374
<212> PRT
<213> A.fumigatus

<400> 23591

```
Phe Arg Ala Ala Tyr Ala Leu Gly Val Leu Ala Ser Gly Phe Ala Asp
1               5                   10                  15
Asn Leu Asp Gln Leu Lys Glu Leu Cys Thr Lys Ala Phe Ala Val Ser
            20                  25                  30
Pro Gln Val Leu Ile Glu Lys Ser Met Lys Gly Trp Lys Glu Ile Glu
        35                  40                  45
Tyr Glu Val Val Arg Asp Cys Gln Asp Asn Cys Ile Thr Val Cys Asn
    50                  55                  60
Met Glu Asn Phe Asp Pro Leu Gly Ile His Thr Gly Asp Ser Ile Val
65                  70                  75                  80
Val Ala Pro Ser Gln Thr Leu Ser Asp Glu Asp Tyr Asn Met Leu Arg
                85                  90                  95
Thr Thr Ala Val Asn Val Ile Arg His Leu Gly Val Val Gly Glu Cys
            100                 105                 110
Asn Ile Gln Tyr Ala Leu Asn Pro Phe Ser Lys Glu Tyr Cys Ile Ile
```

```
        115                 120                 125
Glu Val Asn Ala Arg Leu Ser Arg Ser Ser Ala Leu Ala Ser Lys Ala
    130                 135                 140
Thr Gly Tyr Pro Leu Ala Phe Ile Ala Ala Lys Leu Gly Leu Gly Ile
145                 150                 155                 160
Pro Leu Asn Glu Ile Lys Asn Ser Val Thr Lys Val Thr Cys Ala Cys
                165                 170                 175
Phe Glu Pro Ser Leu Asp Tyr Cys Val Val Lys Ile Pro Arg Trp Asp
            180                 185                 190
Leu Lys Lys Phe Thr Arg Val Ser Thr Gln Leu Gly Ser Ser Met Lys
        195                 200                 205
Ser Val Gly Glu Val Met Ala Ile Gly Arg Thr Phe Glu Glu Ala Ile
    210                 215                 220
Gln Lys Ala Ile Arg Ser Val Asp Phe His Asn Leu Gly Phe Asn Glu
225                 230                 235                 240
Thr Asn Ala Leu Met Ser Ile Asp Gln Glu Leu Gln Thr Pro Ser Asp
                245                 250                 255
Gln Arg Leu Phe Ala Ile Ala Asn Ala Met Ala Ala Gly Tyr Ser Val
            260                 265                 270
Asp Asp Ile Trp Lys Leu Thr Arg Ile Asp Lys Trp Phe Leu Ala Arg
        275                 280                 285
Leu Lys Arg Leu Ser Asp Phe Gly Lys Leu Met Ser Thr Tyr Asn Ala
    290                 295                 300
Thr Thr Val Pro Arg Pro Leu Leu Arg Glu Ala Lys Gln Leu Gly Phe
305                 310                 315                 320
Ser Asp Arg Gln Leu Ala Lys Phe Leu Ser Ser Asn Glu Leu Ser Ile
                325                 330                 335
Arg Arg Leu Arg Val Glu Ala Gly Ile Ile Pro Ile Val Gln Gln Ile
            340                 345                 350
Asp Thr Val Ala Ala Glu Phe Pro Ser Met Asn Asn Tyr Leu Tyr Leu
        355                 360                 365
Thr Tyr Asn Ala Ser Ala
    370
```

<210> 23592
<211> 307
<212> PRT
<213> A.fumigatus

```
<400> 23592
Pro Arg Arg Phe Ser Arg Lys Ala Lys Phe Lys Pro Gly Pro Asn Leu
1               5                   10                  15
Gly Ser Phe Tyr Pro Asn Pro Leu Gly Gln Glu Arg Pro Val Phe Leu
            20                  25                  30
Arg Pro Pro Pro Ala Gln Arg Leu Val Lys Met Ser Ala Thr Pro Asp
        35                  40                  45
Thr Arg Arg Pro Arg His Thr Ser Gly Ile Asp Gly Thr Gly Thr Pro
    50                  55                  60
Ala Thr Arg His Lys Gln Cys Ser Tyr Arg Ser Phe Thr Pro Ser Leu
65                  70                  75                  80
Pro Gly Ile Glu Pro Pro Leu Gly Pro Leu Thr Gly Ala Gly His Asn
                85                  90                  95
Ala Ile Val Gly Leu Leu Asn Ala Pro Ser Leu Arg Gln Leu Lys Thr
            100                 105                 110
His Ile Gln Arg Ala Glu Glu Lys Leu Thr Asp Ser Ala Gly Glu Val
        115                 120                 125
```

```
Asn Glu Arg Leu Thr Asp Ala Arg Val Arg Tyr Gln Lys Glu Arg Ala
    130                 135                 140
Arg Lys Arg Arg Lys Ala Asn Gly Glu Met Pro Leu Ala Glu Gly Val
145                 150                 155                 160
Gly Ala Lys Gln Glu Arg Glu Asp Gly Ser Glu Asp Asp Asp Asp Asp
                165                 170                 175
Asp Gly Glu Glu Arg His Arg Leu Ala Arg Leu Glu Glu Gln Val Gln
            180                 185                 190
Ser Val Thr Glu Glu Leu Glu Ala Arg Met Arg Gln Thr Ile Asp Ala
        195                 200                 205
Glu Val Lys Leu Glu Gly Leu Lys Gly Val Leu Ala Asp Met Ala Lys
    210                 215                 220
Glu Ala Glu Glu Ala Thr Val Ala Gly Ala Gly Ala Arg Thr Ala Gln
225                 230                 235                 240
Leu Arg Ser Arg Arg Thr Arg Arg Arg Gln Gly Asp Asp Glu Gly Asp
                245                 250                 255
Gln Asp Pro Glu Glu Glu Gly Asp Glu Asp Tyr Glu Ala Thr Pro Glu
            260                 265                 270
Pro Gln Met Pro Gly Ile Pro Pro Ser Arg Arg Leu Glu Gln Lys Leu
        275                 280                 285
Asp Glu Glu Ser Ala Arg Trp Ala Gly Gln Ser Leu Thr Gln Arg Tyr
    290                 295                 300
Val Leu Ala
305
```

<210> 23593
<211> 152
<212> PRT
<213> A.fumigatus

```
<400> 23593
Leu Arg Gly Thr Tyr Leu His Ser Pro Met Ala Gly Arg Lys Glu Glu
1               5                   10                  15
Trp Pro Lys Leu Lys Thr Tyr Arg Tyr Ser Thr Asn Asn Ala Tyr Ile
            20                  25                  30
Gly Phe Tyr Arg Ile Val His Asp Ala Lys His Pro Gly Glu Asp Ile
        35                  40                  45
Pro Pro Leu Pro His Ser Ser Thr Trp Phe Ala His Met Glu Asp Pro
    50                  55                  60
His Ala Thr Thr Thr Ser Thr Thr Glu Gln Thr Ser Ala Arg Arg Thr
65                  70                  75                  80
Arg Gln Arg Arg Ser Pro Ser Pro Ala Asp Ser Asp Glu Ile Ala Ile
                85                  90                  95
Glu Arg Glu Arg Ile Ser Leu Arg Cys Pro Leu Thr Leu Leu Pro Phe
            100                 105                 110
Arg Asp Pro Val Thr Ser Thr Lys Cys Pro His Ser Phe Glu Arg Glu
        115                 120                 125
Ala Ile Thr Asp Met Ile Ala His Ser Pro Thr Thr Val Pro Val Leu
    130                 135                 140
Thr Ala Gly Leu Glu Asn His Ala
145                 150
```

<210> 23594
<211> 179
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23594
Lys Met Asp Gly Val Gly Gly Tyr Ala Gly Trp Arg Trp Ile Phe Ile
1 5 10 15
Leu Glu Gly Leu Leu Thr Val Ala Val Ala Leu Val Ala Pro Phe Ala
20 25 30
Ile His Asp Phe Pro Glu Thr Ala Thr Phe Leu Thr Glu Glu Glu Arg
35 40 45
Arg Trp Val Ile His Lys Leu Arg Ser Gln Ser Gly Xaa Asp Thr Thr
50 55 60
Gln Asp Gly Thr Asp His Glu Glu Ser Arg Phe Arg Val Arg Tyr Val
65 70 75 80
Leu Asp Ala Leu Thr Asp Trp Gln Ile Tyr Val Ala Leu Phe Ser Met
85 90 95
Leu Pro Leu Cys Val Ala Arg Arg Arg Leu Val Gly Leu Met Asp Gln
100 105 110
Cys Thr Gly Glu Ser Pro Pro Leu Ser Thr Val Ser Arg Thr Ser Cys
115 120 125
His Pro Ser Ser Arg Thr Ser Gly Thr Ser Leu Gln Arg Arg Ser Cys
130 135 140
Ser Arg Cys Arg Phe Thr Ser Arg Pro Pro Leu Trp Leu Ser His Gln
145 150 155 160
Pro Gly Cys Arg Ile Val Ala Ser Ser Asp Leu His Ser Phe Ser Ser
165 170 175
Ser Cys Arg

<210> 23595
<211> 143
<212> PRT
<213> A.fumigatus

<400> 23595
Cys Val Asp Arg Leu Ala Asn Leu Arg Gly Leu Val Gln Tyr Ala Ser
1 5 10 15
Pro Leu Arg Cys Ala Thr Thr Thr Gly Trp Thr Asn Gly Ser Val Tyr
20 25 30
Trp Gly Ile Thr Thr Pro Leu Tyr Gly Ile Ser Tyr Phe Leu Pro Ser
35 40 45
Ile Ile Lys Asp Leu Gly Tyr Lys Ser Ser Thr Ala Gln Leu Leu Thr
50 55 60
Val Pro Ile Tyr Ile Thr Ala Ala Ile Val Ala Ile Ala Ser Ala Trp
65 70 75 80
Leu Ser Asp Arg Arg Lys Gln Arg Ser Pro Phe Ile Phe Phe Phe Met
85 90 95
Ser Leu Ile Ala Ile Gly Phe Ile Ile Val Leu Ala Ser Thr Gly Arg
100 105 110
Gly Val Pro Gly Val Val Tyr Phe Gly Val Leu Ile Ala Val Val Gly
115 120 125
Lys Phe Phe Ala His Gln Gln Arg Thr Arg Leu Thr Arg Gln Gly
130 135 140

<210> 23596
<211> 65
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (51),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23596
Asp Gln Ser Cys Ile Val Asp Pro Arg Ile Ser Pro Cys Leu Ala Arg
1 5 10 15
Ser Asp Pro Phe Thr Gly Glu Tyr Cys Ser Pro Leu Ala Arg Gln Ala
20 25 30
Phe Met Asp Tyr Thr Glu Ile Phe Arg Tyr Gln Ile Gly Pro Met Gly
35 40 45
Tyr Val Xaa Leu Thr Ala Ala Val Xaa Asp Gln Asp Leu Val Lys Lys
50 55 60
Gly
65

<210> 23597
<211> 112
<212> PRT
<213> A.fumigatus

<400> 23597
Cys Cys Arg Ser Leu Val Cys Ser Pro Ser Leu Gly Gly Ala Ile Gly
1 5 10 15
Tyr Ala Val Ala Ala Ala Ile Tyr Thr Asn Val Phe Pro Gly Ala Leu
20 25 30
Glu Ser Arg Leu Pro Ala Asp Leu Lys Ser Asn Ala Thr Ser Ile Tyr
35 40 45
Met Gly Gly Tyr Thr Val Gln Gln Thr Tyr Pro Met Gly Ser Ala Ala
50 55 60
Arg Asp Ala Ile Asn Tyr Ala Trp Gly Arg Ser Gln Arg Phe Gly Ala
65 70 75 80
Val Ala Ala Thr Cys Ile Leu Ile Leu Gly Ile Pro Ala Ile Ala Val
85 90 95
Trp Lys Asn Tyr Asn Val Asn Lys His Gln Asn Lys Gly Val Met Ile
100 105 110

<210> 23598
<211> 79
<212> PRT
<213> A.fumigatus

<400> 23598
Glu Thr Leu Ser Asn Lys Pro Leu Pro Asn Thr Met Ser Arg Glu Ala
1 5 10 15
Tyr Gln Val Pro Ser Leu Gly Ala Gln Asn Thr Phe Gly Thr Glu Gly
20 25 30
Met Ala Ala Gly Ser Met Asp Gly Pro Val Val Ala Tyr Leu Cys Gly
35 40 45

```
Glu Cys Asn Ala Arg Val Ser Leu Lys Arg Gly Asp Gln Ile Arg Cys
    50                  55                  60
Lys Asp Cys Gly His Arg Val Leu Tyr Lys Glu Arg Thr Lys Arg
65                  70                  75
```

<210> 23599
<211> 78
<212> PRT
<213> A.fumigatus

<400> 23599

```
Ser Ala Asp Ser Asp Ser Glu Gly Ser Val Thr Thr Glu Pro Val Ser
1               5                   10                  15
Val Leu Ser Arg Asp Asn Gln Ile His Glu Phe Leu Asn Tyr Trp Ser
            20                  25                  30
Glu Lys Val Asp Ile Pro Leu Ser Arg Leu Ala Tyr Thr Ser Tyr Arg
        35                  40                  45
Glu Val Glu Ser Asp Val Gly Lys Thr Lys Asn Ala Pro Asn Glu Thr
    50                  55                  60
Ala Arg Val Val Glu Leu Ala Gly Lys Ile Gly Gly Gly Trp
65                  70                  75
```

<210> 23600
<211> 316
<212> PRT
<213> A.fumigatus

<400> 23600

```
Arg Lys His Val Ile Pro Gly Asp Asn Arg Leu Gln Ile Cys Leu Thr
1               5                   10                  15
Ser Tyr Ser Ser Lys Ser Arg Leu Cys Leu Asn Leu Arg Tyr Pro Cys
            20                  25                  30
Ile Lys Ser Gln Leu Asp Ser Thr Cys Gly Leu Lys Ser Ser Tyr Glu
        35                  40                  45
Thr Cys Arg Glu His Ala Thr Met Ser Lys Gln Asp Ser Leu Leu Thr
    50                  55                  60
Arg Lys Ala Leu Ala Ser Ser Val Ser Gly Thr Thr Leu Leu Val Met
65                  70                  75                  80
Ile Gln Leu Val Ser Arg Leu Phe Thr Phe Val Ala Asn Gln Leu Val
                85                  90                  95
Leu Arg Asn Leu Ser Pro Ala Thr Leu Gly Ala Ala Thr Gln Leu Glu
            100                 105                 110
Leu Phe Met Val Thr Ile Leu Tyr Phe Ser Arg Glu Ala Ile Arg Leu
        115                 120                 125
Ala Ile Leu Arg Gln Pro Leu Asp Ser Pro Ser Ser Pro Asp Ile Ser
    130                 135                 140
Lys Gln Glu Lys Pro Arg Ile Ala Cys Asp Lys Glu Met Glu Ala Gln
145                 150                 155                 160
Ser Met Ala Thr Gln Ser Ile Val Asn Met Ser Tyr Leu Ser Leu Ala
                165                 170                 175
Val Gly Ile Ala Leu Ser Ile Leu Leu Gly Thr Phe Tyr Ile Gln Phe
            180                 185                 190
Ala Ala Glu Gln Val Ala Gln Thr Ser Phe Tyr Arg Cys Ser Val Ala
        195                 200                 205
Ile Val Cys Leu Ala Ser Thr Leu Glu Leu Cys Thr Glu Pro Phe Phe
    210                 215                 220
```

```
Ala Val Val His Arg Tyr Met Leu Tyr Lys Thr Arg Ala Thr Val Glu
225                 230                 235                 240
Met Ala Ala Ala Phe Val Arg Ser Leu Thr Thr Cys Gly Leu Leu Leu
                245                 250                 255
Trp Ala Ser Trp Asn Gly Ser Asn Val Gly Ile Leu Pro Phe Ala Leu
            260                 265                 270
Gly His Leu Phe Tyr Ala Leu Val Leu Leu Cys Gly Tyr Ser Ala Thr
        275                 280                 285
Leu Ser Asn Ser Ala Ser Arg Trp His Phe Ser Phe Leu Pro Ser Arg
    290                 295                 300
Ile Arg Ser Arg Tyr Val Glu Val Ile Thr Ile Lys
305                 310                 315
```

<210> 23601
<211> 178
<212> PRT
<213> A.fumigatus

<400> 23601

```
Leu Tyr Pro Pro Pro Lys Arg Leu Met Glu Ser Asp Gly Ile Lys Val
1               5                   10                  15
Asn Asp Thr Thr Pro Arg Ala Ala Gln Asp Leu Arg Phe Thr Pro Ser
            20                  25                  30
Phe Val Asp Pro Asn Ser Leu Ser Tyr Met Asn Phe Pro Ala Gln Gln
        35                  40                  45
Ser Gly Tyr Tyr Thr Pro Asn Ser Glu Gly Leu Gly Pro Leu Phe His
    50                  55                  60
Ser Gln Ala Gly Asp Leu His Thr Pro Gly Met Ser Met Ile Thr Pro
65                  70                  75                  80
Met Ser Leu Thr Gln Gln Leu Pro Gly Pro Thr Leu Thr Ala Gly Gly
                85                  90                  95
Gln Ala Phe Ser Leu Asp His Tyr Asp Gln His Tyr Ile Asn Pro His
            100                 105                 110
Phe His Asn Pro Gln Ala Phe Ala Pro Gln Pro Ser Phe Ala Pro Ser
        115                 120                 125
Ala Phe Val His Arg Asp Ser Gly Tyr Asp Ala Met Asp Glu Ser Val
    130                 135                 140
Asp Glu Met Ser Leu Asn Asp Val Asp Ile Gln Gly Asn Thr Ser Gln
145                 150                 155                 160
Phe Ala Thr Ser Ala Ala His Asp Leu Ser Asp Thr Pro Gly Ser Ser
                165                 170                 175
Glu Lys
```

<210> 23602
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23602

```
Thr His Ala Arg Ser Phe Gln Pro Arg Gly Glu Asp Ser Leu Thr Gly
1               5                   10                  15
Arg Lys Asn Ser Gln Lys Pro Asp Asp Glu Phe Ile Gln Arg Phe Gln
            20                  25                  30
Lys Thr Phe Ser Glu Val Val Pro Leu Gly Ser Gln Arg Asn Ala Pro
        35                  40                  45
```

```
Gly Leu Gly Gln Val Ala Gly Asn Gln Pro Ile Thr Pro Ser Arg Tyr
    50                  55                  60
Val Ile
65

<210> 23603
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23603
Pro Phe Ile Leu Val Pro Ile Gly Ser Pro Asp Leu Leu Thr Ser Thr
1               5                   10                  15
His Ala Leu Ser Ser Asn Leu Thr Ile Val Pro Ser Gly Leu Cys Ile
            20                  25                  30
Ser Phe Phe Ala Arg Thr Thr Thr Ala Cys Arg Ile Ser Pro Arg Arg
        35                  40                  45
Thr Leu Phe Ala Met Pro Leu Leu Phe Val Leu Ser Gly Pro Lys Phe
    50                  55                  60
Arg Cys Phe
65

<210> 23604
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23604
Arg Thr Trp Ile Leu Ile Trp Leu Gln Leu Val Ile Gly Asp Arg Ile
1               5                   10                  15
Val Val Val Val Gln Lys Gln Arg Asn Phe Gly Pro Glu Ser Thr Asn
            20                  25                  30
Asn Ser Gly Ile Ala Asn Lys Val Arg Arg Gly Asp Ile Arg His Ala
        35                  40                  45
Val Val Val Arg Ala Lys Lys Glu Met Gln Arg Pro Asp Gly Thr Ile
    50                  55                  60
Val Lys Phe Asp Asp Asn Ala Cys Val Leu Val Asn Lys Ser Gly Asp
65                  70                  75                  80
Pro Ile Gly Thr Arg Met Asn Gly
                85

<210> 23605
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23605
Gln Ser Arg Thr Ala Thr Asn Phe Ile Asp Arg Gly Lys Gly Thr Pro
1               5                   10                  15
Arg Arg Lys Val Lys Asn Val His Lys Ser Ser Gly Ala Asp Asp Lys
            20                  25                  30
Lys Leu Gln Thr Thr Leu Asn Lys Met Asn Val Gln Pro Ile Gln Ala
        35                  40                  45
Ile Glu Glu Val Asn Met Tyr Lys Glu Asp Gly Asn Val Ile His Phe
    50                  55                  60
Thr Ala Pro Lys Gly Glu Phe Leu Thr Pro Ala Ser Val Ser Val Ser
```

65 70 75 80
Pro Asn Pro Glu Gly Arg
85

<210> 23606
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23606
Asp Ala Val Pro Ser Ser Thr Ala Phe Phe Leu Arg Val Ser Leu Leu
1 5 10 15
Cys Phe Thr Thr Thr Cys Ala His Ala Thr Met Ser Glu Glu Pro Thr
20 25 30
Pro His Asp His Gly Glu Ser Ile Ala Ala Pro Pro Asp Leu Pro Pro
35 40 45
Gly Trp Lys Tyr Arg Gln Arg Arg Ile Phe Gly Phe Asn Ile Pro Trp
50 55 60
Tyr Ala Ser Pro Ser Val Gln Leu
65 70

<210> 23607
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23607
Gly Val Gly Lys Ser Leu Lys Asn Ser Thr Leu Lys Met Leu Leu Pro
1 5 10 15
Leu Glu Tyr Phe Lys Ile Ser Lys Asn Leu Pro Met Lys Cys Ser Glu
20 25 30
Ile His Leu Phe Asn Tyr Pro Ala Ser Ile Met Pro Pro Ile Pro Trp
35 40 45
Ser Leu Asn Ser Gln Gly Pro Pro Arg Trp Trp His Phe Pro Pro
50 55 60

<210> 23608
<211> 162
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (115)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23608
Leu Arg Thr Pro Tyr Asp Cys Gln Ser His Gln Thr Gln Glu Asp Val
1 5 10 15
Glu Cys Cys Cys Leu Ala Cys Ile Asn Arg Thr Arg Ser Tyr Asp Gly
20 25 30
Phe Met Ala Ser Leu Leu Lys Asn Val Val Lys Asn Pro Pro Tyr Ala
35 40 45
Leu Phe Ala Ile Pro Gly Leu Pro Asp Ile Pro Met Trp Trp Cys Asn
50 55 60
Ser Cys Thr Ala Tyr Leu Arg Lys Glu Ser Thr Pro Val Ile Asn Ile

```
65                  70                  75                  80
Arg Ser Gly Trp Ser Ala Gly Leu Asn Thr Asp Trp Thr Ala Pro Asp
                85                  90                  95
Lys Ile Thr Asn Thr Ile Ser Asn Gln Gln Leu Trp Phe Tyr Gly Trp
            100                 105                 110
Trp Ile Xaa Ile Thr Leu Lys Gly Gly Ser Pro Leu Ala Asn Pro Asn
        115                 120                 125
Pro Thr Thr Glu Lys Ile Phe Leu Cys Ser Thr Leu Ala Lys His Arg
    130                 135                 140
Leu Ile Ser Trp Ile Lys Gly Pro Thr Phe Leu Thr Pro Cys Leu Lys
145                 150                 155                 160
Ala Asn
```

<210> 23609
<211> 199
<212> PRT
<213> A.fumigatus

<400> 23609

```
Ile Thr Tyr Asp Asp Ser Lys Leu Ala Ser Asp Leu Thr Ser Arg Leu
1               5                   10                  15
Ala Gln Ile Tyr Gln Lys Pro Glu Ala Phe Met Met Val Thr Ile Gln
            20                  25                  30
Gln Asp Ala Cys Leu Tyr Phe Gly Asn Ser Ala Leu Pro Ala Tyr Leu
        35                  40                  45
Met Lys Val Phe Ala Leu Pro Tyr Leu Ile Ala Pro Ile Thr Asn Leu
    50                  55                  60
Arg Asn Thr Ile Leu Ile Gln Ala Ala Leu Gln Asp Leu Leu His Val
65                  70                  75                  80
Ala Pro Ser Arg Gly Ile Val Leu Tyr Ile Pro Ile Ser Glu Glu Asn
                85                  90                  95
Phe Ala Thr Asn Gly Val Thr Met Met Gly Glu Ile Ala Arg Leu Glu
            100                 105                 110
Gly His Ala Glu Asp Gln Asp Ala Gly Ile Leu Arg Ser Ile Ser Arg
        115                 120                 125
Ser Met Arg Arg Arg Ile Lys Ser Asn Ser Thr Thr Ser Ala Pro Leu
    130                 135                 140
Ser Val Ala Thr Thr Ser Ser Trp Thr Pro Gly Phe Asp Pro Cys Gln
145                 150                 155                 160
Gln Glu Trp His Asp Ala Arg Arg Arg Asn Val Ser Ser Glu Gly Glu
                165                 170                 175
Ser Asn Thr Val Arg Lys Pro Lys Ser Met Arg Asp Phe Val Cys Pro
            180                 185                 190
Ala Val Leu Ala Ser Asp Met
        195
```

<210> 23610
<211> 190
<212> PRT
<213> A.fumigatus

<400> 23610

```
Asp Ile Ala Phe Pro Ser Phe Pro Ser Leu Ser Asp Gln Pro Tyr Pro
1               5                   10                  15
Phe Gly Tyr Ser Arg Phe Leu Ser Ile Phe Val Phe Phe Phe Phe Phe
```

```
            20                  25                  30
Thr Phe Ala Gly Leu Gly Pro Asn Ser Ser Met Pro Ser Asp Ser Phe
        35                  40                  45
Asp Thr Asp Tyr Ala Gln Arg Glu Arg Ser Arg Ser Pro Arg Arg Arg
    50                  55                  60
Ser Arg Ser Pro Arg Arg Ser Arg Arg Ser Tyr Ser Pro Arg Ser Arg
65                  70                  75                  80
Ser Arg Ser Arg Asp Asp Tyr Arg Arg Ser Asp Arg Arg Ser Arg Ser
                85                  90                  95
Pro Met Ser Thr Ala Gln Gly Ala Thr Gly Gly His Ser Gly Ser Gly
            100                 105                 110
Tyr Gly Gly Arg Ser Ser Tyr Pro Pro Ser Arg Ser Phe Glu Glu Arg
        115                 120                 125
Ser Val Ala Lys Glu Gln Met Met Gln Ser Val Arg Glu Ser Ser Gln
    130                 135                 140
Gln Asp Arg Arg Val Tyr Val Gly Asn Leu Ser Tyr Asp Val Lys Trp
145                 150                 155                 160
His His Leu Lys Asp Phe Met Arg Gln Gly Glu Gln Gly His Ile Val
                165                 170                 175
Ser Ala Val Arg Arg Ser Phe Cys Trp Met Lys Thr Cys Gly
            180                 185                 190
```

<210> 23611
<211> 90
<212> PRT
<213> A.fumigatus

<400> 23611

```
His Pro Ser Gly Arg Asn Pro His Pro Ser Gly Ile Glu Val His Ser
1               5                   10                  15
Val Tyr Gly His Ile Trp Ser Asp Asp Pro Tyr Ala Gly Gly Val Met
            20                  25                  30
Pro Val Arg Lys Pro Gly Phe Met Gly Lys Tyr His Asp Glu Ile Arg
        35                  40                  45
Lys Pro Gln Gly Asn Val His Phe Cys Gly Ser Asp Phe Ala Asp Gly
    50                  55                  60
Trp Arg Gly Phe Val Ser Gly Ala Phe Glu Asp Ala Tyr Arg Val Thr
65                  70                  75                  80
Arg Glu Val Glu Thr Ser Leu Ser Ile Lys
                85                  90
```

<210> 23612
<211> 217
<212> PRT
<213> A.fumigatus

<400> 23612

```
Arg Leu Cys Ser His Ile Leu Val Tyr Val Ser Arg Thr Lys Asn Phe
1               5                   10                  15
Gln Lys Gly Gly Asn Ser Tyr Asp Ala Ile Ala Lys Lys Asn Asp Gln
            20                  25                  30
Met Tyr Ala Leu Ile Ala Ile Cys Val Ala Leu His Pro Thr Arg Leu
        35                  40                  45
Asp Asp Thr Ile His Ser Ala Leu Arg Glu Lys Tyr Gly Glu Gln Leu
    50                  55                  60
Leu Arg Leu Gln His Gly Gly Pro Asp Ala Leu Pro Leu Phe Glu Glu
```

```
65                  70                  75                  80
Leu Phe Arg Ser Ala Cys Pro Lys Phe Ile Ser Pro Thr Pro Pro Asp
                85                  90                  95
Phe Asp Asn Pro Ala Leu Asn Ile Asp Pro Val Asp His His Thr Ala
            100                 105                 110
Ile Phe Met Asp Glu Val Lys Asn Thr Leu Tyr Asn Pro Thr Ile Arg
        115                 120                 125
Ser Tyr Leu Lys Leu Tyr Thr Thr Met Asp Leu Lys Lys Leu Ala Gly
    130                 135                 140
Phe Leu Glu Val Gln Pro Glu Val Leu Arg Ser Trp Leu Leu Val Asn
145                 150                 155                 160
Lys Gln Arg Ser Arg Gln Val Arg Trp Val Glu Gly Gly Leu Leu Glu
                165                 170                 175
Gly Glu Val Val Ser Ala Asn Asp Leu Asp Tyr Ala Leu Glu Asn Asp
            180                 185                 190
Leu Ile His Val Ser Glu Thr Lys Ala Gly Arg Arg Leu Val Asp Trp
        195                 200                 205
Tyr Leu Arg Asn Leu Ala Arg Val Tyr
    210                 215
```

<210> 23613
<211> 218
<212> PRT
<213> A.fumigatus

<400> 23613

```
Ser Leu Gly Val Arg Ser Gly Pro Gly His Ile Asn Arg Pro Gly Arg
1               5                   10                  15
Arg Gly Gln Gly Gln Gln Asp Leu Ala Leu Pro Asp Arg Arg Asp Gly
            20                  25                  30
Gly Asp Val Ser Asp Ile Glu Glu Glu Ser Asp Glu Asp Phe Ile Asp
        35                  40                  45
Gln Tyr Tyr Gly Asp Glu Glu Tyr Thr Leu Thr Pro Glu Gln Ala Glu
    50                  55                  60
Glu Gly Arg Arg Leu Gln Asn Asn Pro Gln Ser Gln Ser Gly Arg Ala
65                  70                  75                  80
Thr Pro Arg Glu Leu Thr Arg Ser Ser Gln Phe Pro Ser Ser Pro Ser
                85                  90                  95
Val His Ser Asp Met Gly Leu Ala Pro Pro Thr Arg Pro Phe Leu Glu
            100                 105                 110
Pro Gly Asn Arg Leu Ser Ser Ala Ser Val Leu Ser Val Asp Ser Val
        115                 120                 125
Val Gly Asp Lys Lys Asp Phe Lys Leu Gln Lys Val Asp Pro Phe Phe
    130                 135                 140
Thr Asp Ser His Gly Glu Tyr Ala Arg Leu Phe Glu Lys Ser Leu Glu
145                 150                 155                 160
Asn Leu Asn Ala Ala Asn Ser Glu Thr Gln Leu Cys Ile Glu Glu Phe
                165                 170                 175
Leu Val Lys Ser Glu Lys Glu Trp Phe Asp Lys Phe Arg Asp Ala Lys
            180                 185                 190
Leu Gly Arg Leu Asn Ser Pro Ala Pro Ser Val Phe Arg Gly Ser Ser
        195                 200                 205
Pro Arg Gly Trp Lys Asp Pro Arg Gly Arg
    210                 215
```

<210> 23614

<211> 173
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (95)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23614
Ala Cys Ala Asp Pro Ser Gly Pro Pro Val Val Lys Thr Thr Gly Leu
1 5 10 15
Val Asp Ser Lys Leu His Gly Gln Arg Lys Thr Met Phe Gln Arg Ala
20 25 30
Ile Asp Leu Gly Leu Pro Ala Ser Phe Val Glu Leu Arg His Glu Ala
35 40 45
Thr His Arg Glu Leu Pro Ser Leu Val Val Leu Arg Asn Ala Thr Gln
50 55 60
Arg Ser Leu Glu Trp Leu Trp Asp Tyr Tyr Trp Ala Lys Thr Asp Ser
65 70 75 80
Asp Val Ala Leu Ala Ser Gly Arg Pro Ala Ser Ala Val Ser Xaa Gly
85 90 95
Ala Glu Asn Gly Asn Val Glu Glu Ile Arg Ser Val Ile Arg Thr Ala
100 105 110
Leu Glu His Pro Ala Asn Gln Gly Asp Leu Ser Glu Pro Pro Arg Lys
115 120 125
Lys Arg Lys Ser Asp Gln Gln Ser Ser Phe Leu Ala Glu Gln Leu Gly
130 135 140
Ala Ile Cys Lys Ala Ser Ser Arg Ser Pro His Ser Leu Ser Arg Val
145 150 155 160
Leu Ile Glu Asp Ala Ile Ile Val Pro Lys Gly Arg Lys
165 170

<210> 23615
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23615
Ser Ser Leu Phe Cys His Leu His Cys Asp His Ile Asp Ser Thr Leu
1 5 10 15
Val Gly Asn Thr Asp Tyr Leu Glu Ile Leu Asn Ser Asn Tyr Ser Pro
20 25 30
Cys Asn Tyr Leu Gln Ile Val Thr Trp Pro Lys Trp Pro Gln Leu Met
35 40 45
Ser Leu Arg Gly Leu Met Val Arg Leu Leu Lys Arg Ser Ala Pro His
50 55 60
Glu Thr Asn Pro Asp
65

<210> 23616
<211> 324
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (307),(318)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23616

```
Gln Leu Ile Val Arg Ser Gly Arg Arg His Pro Phe Ser Ser Trp Met
1               5                  10                  15
Lys Arg Leu Thr Gly Leu Lys Gly Ser Ser Thr Asp Ser Gly Thr Ile
            20                  25                  30
Arg Trp Ser His Lys Arg His Asp Ala His Lys Asn Lys Arg Asn Asn
        35                  40                  45
Lys Asn Asn Pro Tyr Pro Leu Ser Gly Thr Thr Asn Val Val Arg Glu
    50                  55                  60
Tyr Ser Ser Asp Phe Val Pro Ser Val Ser Asp Thr Asn Ala Ala Asn
65                  70                  75                  80
Gly Pro Arg Ser Cys Ser Tyr Ser Glu Pro Ser Ile Ala Cys Ser Gly
                85                  90                  95
His Asp Asn Gln Val Pro Ala Thr Ser Ala Lys Ser Thr Ala Pro Thr
            100                 105                 110
Ile Ser Thr Asn Gly Asp Thr Ala Ile Ser Glu Ala Ala Tyr Ser Lys
        115                 120                 125
Ser Gly Thr Met Ala Thr Ala Gly Gly Gly Ile Ser Ser Gln Gly Gly
    130                 135                 140
Gly Glu Gly Ser Thr Phe Ser Ser Pro Ala Pro Ser Val Arg Ser Leu
145                 150                 155                 160
Thr Thr Thr Leu Thr Thr Val Gln Ser Ala Ala Pro Ser Ile His Phe
                165                 170                 175
Tyr Asn Val Gln Ser Thr His Gln Gly Leu Ala His Ala Asn Ser Thr
            180                 185                 190
His Ser Asn Ala Ser Gln Gln Val Gln Phe Ser Gln Pro Phe Pro Ser
        195                 200                 205
Ser Pro Ala Thr Ala Val Pro Pro His Leu Val Pro His Gly His Ser
    210                 215                 220
His Thr Tyr Ser Thr Ala Thr Ala Asn Asn Ile Leu Thr Asp Asn Ala
225                 230                 235                 240
Ser Ile Leu Thr Leu Ala Ser Ser Ser Lys Arg Arg Arg Arg Asn Ser
                245                 250                 255
Leu Asp Thr Asn Ala Ser Val Arg Ala Leu Ala Pro Ser Ser Val Phe
            260                 265                 270
Gly Gly Ser Arg Glu Ser Leu Pro Leu Ser Val Leu Ser Ala Asn Val
        275                 280                 285
Gly Glu Pro Ser Asn Thr Ser Thr Phe Ser Thr Pro Gly Val Leu Asn
    290                 295                 300
Arg Pro Xaa Met Val Gly Leu Ala Ser Ala Glu Arg Ile Xaa Val Tyr
305                 310                 315                 320
Ser Ala Ser Gly
```

<210> 23617
<211> 106
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (100)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23617

```
Arg Val Asn Ser Thr Ser Ser Leu Gln Val His Ser Ile Met Tyr Arg
1               5                  10                  15
Phe His Pro Ser Val Lys Tyr Thr Thr Ala Tyr Pro Ser Gln Gln Glu
            20                  25                  30
Ile Arg Asp Gln Ile Ile Asp Val Trp Lys Arg Tyr Gly Leu Gln Lys
        35                  40                  45
Arg Thr Ala Phe Asp Thr Pro Val Thr Ser Val Lys Gln Thr Lys Asp
    50                  55                  60
Gly Lys Trp Ile Ile Asn Asp Asn Glu Glu Glu Tyr Gly Arg Phe Asp
65                  70                  75                  80
Gly Val Ile Ala Ser Val Phe Thr Thr Gly Leu Glu Asp Ser Arg Leu
                85                  90                  95
Ser Val Arg Xaa Trp Gly Ala Gly Gly Ala
            100                 105
```

<210> 23618
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23618

```
Thr Glu Cys Ser Ser Ser Met Ala Gln Ser Lys Ala Lys Ser Thr Ile
1               5                  10                  15
Val Asp Phe Phe Thr His Pro Phe Leu Val Val Phe Ser Leu Val Tyr
            20                  25                  30
Met Leu Phe Gln Asn Ile Leu Thr Trp Val Phe Ser Pro Ala Pro Pro
        35                  40                  45
Pro Pro Ala Ser Thr Ala Asn Gly Leu Pro Lys Lys Arg Val Ala Val
    50                  55                  60
Ile Gly Ala Gly Leu Thr Gly Val Ser Ser Ala Ala His Cys Ile Gly
65                  70                  75                  80
His Gly Phe Asp Val Gln Leu Phe Glu Ala Arg Pro Lys Asp Lys Gly
                85                  90                  95
Leu Gly Gly Ile Trp Ser Val Cys Cys Val Leu Tyr Gly Val Asp Leu
            100                 105                 110
Asn Ser Ala Asn Ala Trp Ala Val Ser Val Ser Thr Leu Pro His Pro
        115                 120                 125
Cys Arg Phe Ile Val
    130
```

<210> 23619
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23619

```
Phe Glu Asp Leu Pro Val Lys Pro Leu Thr Leu Thr Thr Ala His Pro
1               5                  10                  15
Leu Pro Thr Asp Val Leu Leu Lys Pro Thr Phe Ser Pro Phe Tyr Val
            20                  25                  30
Val Ile Phe Lys Lys Asn Gly Leu Ser Val Phe Cys Gln Ile Met Leu
        35                  40                  45
Asp Ser Arg His Val Tyr Leu Ser Ser Met Gln Ile Phe Tyr Gln Leu
```

50 55 60
Cys Asn
65

<210> 23620
<211> 309
<212> PRT
<213> A.fumigatus

<400> 23620
Asp Gly Thr Ile His Pro Glu Gly Val Trp Lys Lys Asp Ser His Met
1 5 10 15
Gly Thr Tyr Glu Pro Ser Asp Thr Leu Ser Ile Ser Lys Asp Val Ile
20 25 30
Val Gln His Trp Gln Tyr Gly Gln Ser Asp Pro Val Ser Leu Ala Asn
35 40 45
Asp Gly Tyr Ile Met Ile Asn Ser Glu Asp Gln Trp Ala Tyr Met Ser
50 55 60
Leu Lys Asn Asp His Met Pro Ile Phe Pro Ala Pro Tyr Pro Tyr Leu
65 70 75 80
Phe Asn Thr Ser Arg Val Leu Asn Phe Ala Asn Ile Asp Gly Trp Gln
85 90 95
Trp Thr Pro Ala Leu Phe Asn Pro Phe Asn Val Thr Glu Gln Pro Asn
100 105 110
Lys Gln Ala Val Gln Gly Ala Ile Leu Ala Ala Trp Asn Asp Asn Gly
115 120 125
Pro Asp Ala Thr Thr Gln Leu Glu Ala Phe Tyr Ala Met Arg Asn Gly
130 135 140
Ile Pro Ile Val Ala Ser Arg Ala Trp Thr Gly Asp Arg Gly Pro Arg
145 150 155 160
Leu Asp Glu Ser Ser Leu Ser Trp Ser Ala Lys Leu Leu Thr Ala Arg
165 170 175
Ala Ala Gly Gln Asn Leu Asp Arg Arg Phe Thr Gly Gly Val Asn His
180 185 190
Lys Thr Asp Ser Leu Phe Ser Trp Thr Ser Gly Lys Gln Ser Gly Glu
195 200 205
Arg Ile His Leu Gly Tyr Gly Ser Lys Gly Met Asn Tyr Thr Leu Glu
210 215 220
Leu Asp Val Ala Gly Pro Phe Val Leu Ser Ser Glu Asp Cys Ala Leu
225 230 235 240
Ser Leu Ser Ala Ser Gly Thr Leu Ala Phe Thr Ser Asp Gly Trp Glu
245 250 255
Tyr Pro Leu Arg Ser Val Ala Glu Asn Pro Asp Ser Thr Asn Val Phe
260 265 270
Gly Asn Glu Leu Asp Lys Gln Asn Ser Leu His Ala Glu Thr Arg Pro
275 280 285
Asn Pro Leu Pro Arg Arg Ser Leu Phe Arg Thr Lys Val Leu Gly Arg
290 295 300
Glu His Asn Leu Gly
305

<210> 23621
<211> 185
<212> PRT
<213> A.fumigatus

<400> 23621
Leu Phe Ala Gly Gln Ala Leu Ser Glu Phe Ala Glu Tyr Ala Asp Lys
1 5 10 15
Gln Gln Ser His Arg Ser Ala Gln Val Ala Pro Ser Asp Ser Gly Tyr
20 25 30
Ser Thr Ala His Ala Thr Glu Asp His Ala Glu Leu Asp Ile Leu Asp
35 40 45
Gln Leu Thr Leu Ser Asp Thr Pro Lys Thr Val Lys Leu Lys Asp Leu
50 55 60
Leu Leu Gly Thr Gly Glu Glu Ala Glu Asp Ser Leu Gln Leu Leu Gly
65 70 75 80
Ser Ile Leu Gln Ala Arg Ile Asp Glu Gly His Gly Glu Thr Ile Phe
85 90 95
Asp Leu Gly Leu Glu Asp Gly Gly Asp Ser Met Gly Phe Asp Leu Glu
100 105 110
Gln Trp Asn Thr Ala Leu Gln Arg Leu Arg Glu Ala Ala Glu Ala Leu
115 120 125
Pro Ala His Cys Arg Thr Leu Leu Thr Cys Asn Val Gly Asp Pro Glu
130 135 140
Glu Ser Lys Thr Lys Asn Asp Arg Ile Lys Gly Ala Trp Gly Lys Ile
145 150 155 160
Leu Ile Arg Gln Pro Ala Asp Thr Val Glu Glu Met Ala Asp Ile Arg
165 170 175
Ile Pro Val Val Gly Asn Val Asp Ala
180 185

<210> 23622
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23622
Ser Phe Asp Ser Trp Val Pro Leu Val Asn Phe Gln Ser Leu Cys Ala
1 5 10 15
Tyr Trp Arg Ala Cys Ser Val Leu Glu Gly Tyr Arg Asn Gly Ala Val
20 25 30
Phe Ala Ala Ser Lys His Ala Ala Val Gly Met Val Lys Ser Ala Ala
35 40 45
Phe Glu Val Gly Ser Arg Gly Ile Arg Val Asn Gly Ile Leu Pro Cys
50 55 60
Val Phe Leu Leu Phe Tyr Leu Thr Ser
65 70

<210> 23623
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23623
Leu Arg Asp Glu Val Asn Gln Val Tyr Ser Gly Pro Ile Asp Thr Pro
1 5 10 15
Met Phe His Gln Val Arg Glu Asn Ala Gly Leu Ser Ser Ser Ala Ser
20 25 30
Asp Thr Pro Ile Pro Arg Pro Gly Gln Pro Glu Glu Val Ala Ser Ile
35 40 45
Ala Val Phe Leu Leu Gly Asp Gln Ser Ser Tyr Val Thr Gly Ala Val

```
    50                  55                  60
Trp Asn Val Asp Gly Gly Ala Asn Ala
65                  70
```

<210> 23624
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23624

```
Tyr Pro Leu Ser Cys His Leu Val Gly Asp Val Ser Ala Pro Leu Lys
1               5                   10                  15
Gly Asn Ser Thr Asp Asn Cys Ile His Gly Met Gly Lys His Lys Phe
            20                  25                  30
Asp Ser Arg Ala Gly Glu Val Val Trp Met Glu Glu Ile Ala Arg Val
        35                  40                  45
Ser Arg Tyr Ala Val Asn His Leu Glu Gly Arg Ile
    50                  55                  60
```

<210> 23625
<211> 111
<212> PRT
<213> A.fumigatus

<400> 23625

```
Ser Ser Asp Arg Ser Ser Pro Thr Ser Ala Arg Ala Ser Ser Asn Ser
1               5                   10                  15
Arg Ser Ser Cys Trp Pro Asn Gly Ser Arg Thr Ser Arg Thr Val Pro
            20                  25                  30
Ala Asn Thr Thr Gly Ser Cys Gly Met Met Pro Thr Arg Glu Arg Arg
        35                  40                  45
Ser Cys Ser Arg Thr Trp Ala Arg Ser Val Pro Ser Met Trp Met Asp
    50                  55                  60
Pro Asp Arg Ala Ser Arg Gln Arg Arg Ser Ala Arg Ala Ser Glu Asp
65                  70                  75                  80
Leu Pro Ala Pro Val Arg Pro Thr Ile Pro Thr Arg Ser Pro Ala Arg
                85                  90                  95
Arg Val Lys Val Arg Pro Cys Arg Thr Gly Gly Arg Ser Gly Pro
            100                 105                 110
```

<210> 23626
<211> 181
<212> PRT
<213> A.fumigatus

<400> 23626

```
Val Arg Arg Leu Arg Asp His His Leu Arg His His Pro His Pro Arg
1               5                   10                  15
Arg Pro Pro Arg Arg Ile Arg Pro Gln Leu Arg Pro Gly Thr Leu Arg
            20                  25                  30
Ala His Leu Leu Ala Pro Leu Ala Val Arg Gln Thr Arg Thr Arg Arg
        35                  40                  45
Gln Arg Arg Arg Ala His Ser Arg Val His Ala Ala Arg Pro Gly Thr
    50                  55                  60
Pro Ile Arg His Ser Arg Thr Arg Leu Leu Ala Ala Arg Arg Arg Asp
65                  70                  75                  80
```

```
Pro Gly Asp Arg Ser Leu Arg Gly Leu Arg Ala Arg Pro Pro Ala Arg
                85                  90                  95
Pro Ala Gly Pro His Leu His Pro Ala Arg Arg Arg Ala Ser Arg Asp
            100                 105                 110
Arg Gly Pro Asn Arg Arg Arg Gln Ile Leu Ala Arg Pro Gly Ala Pro
        115                 120                 125
Pro Leu Pro Gly Arg Ala Val Arg Ile His Pro His Arg Arg Asp Arg
    130                 135                 140
Ser Arg Pro Gly Ala Ala Thr Arg Ser Pro Leu Ala Arg Gly His His
145                 150                 155                 160
Pro Ala Arg Thr Gly Cys Val Cys Trp His Gly Ala Arg Gly Ser Gly
                165                 170                 175
Pro Val Arg Pro Ala
            180
```

<210> 23627
<211> 342
<212> PRT
<213> A.fumigatus

```
<400> 23627
Pro Ser Lys Phe Val Ala Ser Val Thr Ile Thr Phe Val Thr Ile Arg
1               5                   10                  15
Thr Leu Asp Ala Pro Leu Ala Gly Phe Ala Leu Ser Phe Ala Leu Glu
            20                  25                  30
Leu Ser Glu His Ile Ser Trp Leu Leu Ser Gln Tyr Ala Lys Leu Glu
        35                  40                  45
Leu Asp Ala Asn Ala Ala Glu Arg Ile Val Glu Tyr Thr Gln Leu Asp
    50                  55                  60
Gln Glu Pro Gln Ser Gly Ile Pro Val Pro Ala Ser Trp Pro Pro Ala
65                  70                  75                  80
Gly Glu Ile Gln Val Thr Asp Leu Cys Val Ala Tyr Gly Pro Asp Leu
                85                  90                  95
Pro Pro Val Leu Gln Gly Leu Thr Phe Thr Leu Arg Ala Gly Glu Arg
            100                 105                 110
Val Gly Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ala Leu
        115                 120                 125
Ala Leu Leu Arg Cys Leu Asp Ala Arg Ser Gly Ser Ile His Ile Asp
    130                 135                 140
Gly Thr Asp Leu Ala Gln Val Arg Leu His Asp Leu Arg Ser Arg Val
145                 150                 155                 160
Gly Ile Ile Pro His Glu Pro Val Val Phe Ala Gly Thr Val Arg Glu
                165                 170                 175
Val Leu Asp Pro Phe Gly Gln His Asp Asp Arg Glu Leu Leu Asp Ala
            180                 185                 190
Leu Ala Glu Val Gly Leu Leu Arg Ser Glu Asp Tyr Ala Pro Gly Asp
        195                 200                 205
Tyr Lys Asp Gly Phe Leu Leu Asp Ala Thr Ile Ile Glu Gly Gly Arg
    210                 215                 220
Asp Leu Ser Gln Gly Gln Lys Gln Leu Leu Cys Leu Ala Arg Ala Leu
225                 230                 235                 240
Val Ser Arg Ala Lys Ile Leu Ile Met Asp Glu Ala Thr Ala Ser Ile
                245                 250                 255
Asp Met Glu Ser Asp Ile Arg Ile Gln Arg Thr Leu Arg Gln Val Ile
            260                 265                 270
Arg Gly Cys Thr Leu Leu Val Ile Ala His Arg Leu Ser Thr Ile Ala
```

```
        275                 280                 285
Asp Phe Asp Lys Ile Ile Val Leu Asp Gly Gly Arg Val Val Glu Met
    290                 295                 300
Gly Pro Pro Gly Glu Leu Met Met Ile Glu Asn Gly Ile Phe Arg Gly
305                 310                 315                 320
Leu Val Gln Glu Ser Gly Glu Arg Ala Val Ile Glu Gly Met Ile His
                325                 330                 335
Gly Asn Thr Arg Glu Leu
            340
```

<210> 23628
<211> 310
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (295)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23628

```
Ser Gly Ser Lys Thr Leu Arg Asp Gln Val Gly Asn Pro Asn Asn Tyr
1               5                   10                  15
Ala Val Ile Gly Leu Gly Ala Asp Cys Leu Leu Tyr Leu Phe Ser Val
            20                  25                  30
Glu Phe Tyr Lys Phe Leu Gly Leu Asn Gln Ile Gln Gln Leu Asp Phe
        35                  40                  45
Pro Glu Asn Lys Phe Ser Leu Tyr Phe Leu Ala Tyr Asn Gly Pro Gln
    50                  55                  60
Ser Leu Gln Gly Asp Arg His Trp Thr Asp Arg Asn Ala Val Leu Glu
65                  70                  75                  80
Leu Thr His Asn Tyr Gly Thr Glu Asn Asp Pro Asn Tyr Thr Val Ala
                85                  90                  95
Asn Gly Asn Thr Glu Pro His Arg Gly Phe Gly His Ile Ala Ile Ser
            100                 105                 110
Val Asp Asn Ile Glu Ala Ala Cys Lys Arg Leu Glu Asp Ala Gly Tyr
        115                 120                 125
Gln Phe Gln Lys Lys Leu Thr Glu Gly Arg Met Lys His Ile Ala Phe
    130                 135                 140
Val Lys Asp Pro Asp Gly Tyr Trp Val Glu Ile Ile Arg Arg His Asp
145                 150                 155                 160
Gln Asp Val Gly Thr Ala Thr Asp Pro Gly Thr Tyr Arg Leu Asn His
                165                 170                 175
Thr Met Leu Arg Val Lys Ser Ala Glu Thr Ser Leu Lys Phe Tyr Gln
            180                 185                 190
Glu Val Met Gly Met Thr Leu Val Arg Thr Ile Glu Asn Lys Asp Ala
        195                 200                 205
Ala Phe Asn Leu Tyr Phe Leu Gly Tyr Pro Ala Ser Asn Pro Thr Ala
    210                 215                 220
Gln Glu Gly Ala Lys Asn Pro Val Ala Glu Trp Glu Gly Leu Leu Glu
225                 230                 235                 240
Leu Thr Trp Asn Tyr Gly Thr Glu Lys Gln Glu Gly Lys Val Tyr His
                245                 250                 255
Asp Gly Asn Ser Glu Pro Gln Gly Phe Gly His Ile Cys Lys Pro Pro
            260                 265                 270
Arg His Leu Leu His Arg Ser Asn Cys Ala Asp Ile Asp Val Pro Ala
```

```
        275                 280                 285
Gly Phe Leu Leu Thr Ile Xaa Leu His Ser Gln Pro Trp Lys Glu Ile
    290                 295                 300
Ile Leu Arg Thr Gln Asp
305                 310
```

<210> 23629
<211> 105
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (47),(86)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23629

```
Leu Tyr Asn Tyr Ala Thr Ser Ser Ser Ser Ser Ser Arg Leu Ser Phe
1               5                   10                  15
Gln Asp Gln Pro Ser Arg Ala Ala Arg Glu Leu Thr Thr Leu Thr Gln
            20                  25                  30
Pro Ile Thr Lys Ala Leu Thr Ser Ile Leu Ser Leu Gly Phe Xaa Thr
        35                  40                  45
Ser Leu Val Leu Gly Ser Glu Asn Ala Glu Cys Gly Thr Arg Ser Ala
    50                  55                  60
Met Ala Pro Pro Cys Pro Ala Ser Ala Ala Ala Ala Ala Arg Ile Ser
65                  70                  75                  80
Glu His Phe Asn Asn Xaa Leu Ser Ser Phe Ser Ile Pro Glu Arg Tyr
                85                  90                  95
Ile His Arg Trp Phe Pro Ile Ile Leu
            100                 105
```

<210> 23630
<211> 143
<212> PRT
<213> A.fumigatus

<400> 23630

```
Cys Gln Ile Met Ala Ala Thr His Gly Arg Lys Ser Thr Ala Asp Ser
1               5                   10                  15
Asn Val Ser Glu Pro His Val Leu Arg Gly Asn Val Ser His Gln Val
            20                  25                  30
Gln Ala Phe Thr Asp Trp Ser Gln Ala Arg Arg Phe Arg Ile Leu Asp
        35                  40                  45
Thr Ile Lys His Asp His Ser Glu Ile Lys Ser Phe Tyr Glu Leu Ile
    50                  55                  60
Val Ser Ser Pro Gly Pro Glu Glu Gln Thr Lys Tyr Gln Asn Gln Phe
65                  70                  75                  80
Thr Trp Glu Leu Ala Arg His Thr Val Gly Glu Glu Leu Val Ile Tyr
                85                  90                  95
Pro Ala Leu Glu Lys Tyr Leu Asp Asp Gly Lys Glu Leu Ala Arg Lys
            100                 105                 110
Asp Arg Ala Glu His Gln Thr Val Arg Ser Leu Phe Pro Phe Ser Phe
        115                 120                 125
Val Cys Ser Gly Glu Cys Val Phe Pro Thr Asp Cys Asn Thr Ala
    130                 135                 140
```

<210> 23631
<211> 131
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (130)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23631
Ala Met Ala Tyr Ser Pro Ala Pro Ala Ser Pro Ala Thr Gly Thr Ala
1 5 10 15
Gly Gln Thr Leu Ser Ser Ser Leu His Pro Arg Gly Arg Ser Pro Ser
20 25 30
Pro Ala Thr Asn Ala Pro Leu Ser Lys Arg Asp Lys Arg Arg Gly Ala
35 40 45
Leu Gln Glu Arg Leu His Asp Leu Thr Ala Thr Phe Ser His Asn Arg
50 55 60
Asp Ala Gln Phe Arg Gln Gln Leu His Thr Leu Gln Cys Asp Met Thr
65 70 75 80
Leu Ile Asn Asn Ala Asp Pro Tyr Ser Pro Gly Pro Leu Pro Asp Ser
85 90 95
Ala Glu Glu Ile Ala Ala Leu Val Glu Lys Thr Ile Gly Gly Gly Ala
100 105 110
Phe Ala Lys Glu Met Ala Asn Leu Ser Gly Met Trp Tyr Ser Arg Phe
115 120 125
Val Xaa Glu
130

<210> 23632
<211> 181
<212> PRT
<213> A.fumigatus

<400> 23632
Arg Phe Asp Ile Thr Gln Glu Ala Glu Val Arg Ile Arg Cys Pro Glu
1 5 10 15
Arg Glu Glu Arg Ala Asp Gln Leu Gly Thr Ile Gly Gln Val Ala Arg
20 25 30
Trp His Arg Arg Arg Asn Gln Pro Cys Lys Ala Gly Asp Gln Leu Val
35 40 45
Glu Gln Gly Arg Arg His Arg Arg His Gln Ser Arg Arg Ala Gly Ser
50 55 60
Gly Cys Ala Arg Gly Arg Gly Val Pro Ala Gln His Pro Leu Arg Gln
65 70 75 80
Gly Arg Met Arg Arg Pro Ala Gly Ala Cys Ile Ala Leu Leu Gly Gly
85 90 95
Cys Arg Arg Ala Ala Ala Ala Val Gly Thr Pro Asp Asp Glu Lys Asp
100 105 110
Arg Lys Glu Phe Arg Ala Thr Ala Asp Glu Gln Gly Gly Ala Asp Gly
115 120 125
Arg Gly Ala Arg Arg Gly Arg Arg Trp Gln Arg Pro Asp Ala Leu Arg
130 135 140
Arg Arg Gly Gly Arg Thr Ala Gln Arg Arg Arg Gly Glu Gly Glu Arg

```
145                 150                 155                 160
Ser Leu Arg Cys Arg Arg Gly Ala Val Val Met Leu Val Gly Thr Glu
                165                 170                 175
Ile Gly Gly Gly Arg
            180
```

<210> 23633
<211> 379
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (62),(137),(145),(146),(155),(156)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23633

```
Asp Leu Ser Asn Leu Trp Val Thr Arg Gly Phe Phe Trp Val Arg Gly
1               5                   10                  15
Leu Ile Ile Pro Gly Gly Gly Phe Phe Ser Phe Asn Trp Arg Glu Thr
            20                  25                  30
Pro Thr Trp Gly Gly Ile Gly Gly Phe Pro Lys Val Ala Gly Ser Trp
        35                  40                  45
Val Ala Arg Thr Pro Ile His Arg Ala Lys Leu Leu Phe Xaa Lys Val
    50                  55                  60
Gly Ser Pro Arg Asn Ser Gly Leu His Leu Thr Gly Arg Gly Trp Pro
65                  70                  75                  80
Trp Val Phe Ser Pro Thr Pro Met Ala Thr Gly Gly Ile His Thr Thr
                85                  90                  95
Gly Pro Glu Glu Leu Ser Pro Ser Asn Pro Ser Thr Pro Val Phe Pro
            100                 105                 110
Ser Phe Ser Ser Gln Ser Gln Ser Val Thr Arg Ser Gly Gln Gln Ser
        115                 120                 125
Pro Thr Ala Gly Met Thr Met Ser Xaa Thr Arg Leu Thr Pro His Gly
    130                 135                 140
Xaa Xaa Gln Asp Ile Ser Leu Ser Ala Ser Xaa Xaa Thr Leu Gly Thr
145                 150                 155                 160
Ser Ala Ser Thr Thr Asn Phe Gly Thr Asp Gln His His His Ser Pro
                165                 170                 175
Ala Ser Thr Pro Gln Gly Ser Phe Pro Phe Pro Pro Pro Pro Leu Arg
            180                 185                 190
Arg Ala Ser Thr Ala Pro Ala Gln Ser Ile Arg Pro Leu Pro Pro Pro
        195                 200                 205
Ser Pro Ala Ser Pro Thr Ala Ile Ser Thr Ala Leu Leu Val Ser Ser
    210                 215                 220
Cys Ala Lys Leu Phe Pro Ile Leu Leu Val Ile Trp Gly Pro Asp Gly
225                 230                 235                 240
Ser Gly Gly Ser Ser Thr Pro Ala Gln Gln Gly Asn Thr Ser Ala Gly
                245                 250                 255
Gly Thr Thr His Ser Thr Leu Thr Gln Arg Met Leu Ser Arg Tyr Thr
            260                 265                 270
Pro Thr Ala Ser Ala Ala Ala Pro Gly Ala Thr Gly Leu Val Ser Ser
        275                 280                 285
Val Ser Ser Ser Leu Leu Asp Lys Leu Val Ser Ser Leu Ala Trp Leu
    290                 295                 300
Ile Pro Ala Ser Val Pro Thr Ser Tyr Leu Thr Asn Cys Ala Glu Leu
```

```
305                 310                 315                 320
Val Gly Ser Leu Phe Ser Leu Gly Ala Ala Asp Thr His Leu Gly Leu
                325                 330                 335
Leu Ser Asn Ile Glu Ala Leu Tyr Ile Leu Leu Gly Cys Gly Tyr Leu
            340                 345                 350
Arg Ala Val Ala Leu Ala Val Thr Gly Leu Leu Ala Arg Trp Met Val
        355                 360                 365
Gln Arg Val Ile Leu Gly Ala Val Gly Ile Gly
    370                 375
```

<210> 23634
<211> 254
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (80)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23634

```
Ser Lys Gln Trp Trp Leu Thr Met Ser Lys Tyr Ala Ala Arg Gly Ile
1               5                   10                  15
Gly Met Ala Ala Phe Gln Gly Trp Gln Gln Ile His Ile Ala Thr His
            20                  25                  30
Asp Ser Ile Gly Thr Gly Glu Asp Gly Pro Thr His Gln Pro Ile Ala
        35                  40                  45
Leu Ala Ala Leu Tyr Arg Ala Met Pro Asn Leu Leu Tyr Ile Arg Pro
    50                  55                  60
Cys Asp Ser Glu Glu Thr Ala Gly Ala Phe Ile Ala Ala Met Gln Xaa
65                  70                  75                  80
Thr Ser Thr Pro Thr Ile Ile Ser Leu Ser Arg Gln Asn Leu Glu Gln
                85                  90                  95
Tyr Pro Lys Phe Ser Ser Arg Glu Gly Val Gln Arg Gly Ala Tyr Val
            100                 105                 110
Phe Ile Glu Asp Glu Gln Ala Gln Val Thr Leu Ile Gly Val Gly Ala
        115                 120                 125
Glu Met Val Phe Ala Val Arg Thr Arg Gln Val Leu Gln Asp Arg Phe
    130                 135                 140
Asn Ile Arg Ser Arg Ile Val Ser Phe Pro Cys Gln Arg Leu Phe Ala
145                 150                 155                 160
Gln Gln Ser Gln Glu Tyr Arg Arg Glu Val Leu Lys Tyr Arg Ser Gly
                165                 170                 175
Ile Pro Arg Val Val Ile Glu Ala Tyr Ala Val Thr Gly Trp Glu Arg
            180                 185                 190
Tyr Ala Asp Ala Gly Phe Thr Met Ser Thr Phe Gly His Ser Leu Pro
        195                 200                 205
Gly Ala Ala Ala Tyr Lys Tyr Phe Gly Phe Asp Glu His Val Ile Ala
    210                 215                 220
Pro Glu Val Ala Lys Leu Val Asp Glu Val Gln Arg Asp Gly Ile Glu
225                 230                 235                 240
Ser Leu Arg Gly Asp Phe Arg Asp Leu Asn Pro Val Arg Arg
                245                 250
```

<210> 23635
<211> 111

<212> PRT
<213> A.fumigatus

<400> 23635
Ser Ile Met Ala Asp Ile Thr Ala Val Gly Glu Glu Asn Pro Ser Pro
1 5 10 15
Thr Gln Asp Asp Leu Gln Gln Ala Ala Gly Asn Gly Ala Ala Asp Asn
20 25 30
Arg Gly Pro Lys Arg Ser Arg Met Ser Ala Glu Asp Asp Asp Asp Asp
35 40 45
Asp Asp Lys Pro Gly Arg Glu Arg Arg Lys Ile Glu Ile Lys Phe Ile
50 55 60
Gln Asp Lys Ser Arg Arg His Ile Thr Phe Ser Lys Arg Lys Ala Gly
65 70 75 80
Ile Met Lys Lys Val Arg Thr Leu Ala Ser Pro Cys Pro Arg Ser Ser
85 90 95
Pro Val Ser Arg Val Ser Tyr Phe Phe Leu Ser Cys Pro Leu Val
100 105 110

<210> 23636
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23636
Arg Phe Asn Ala Ile Ala Lys Gln Ala Tyr Glu Leu Ser Val Leu Thr
1 5 10 15
Gly Thr Gln Val Leu Leu Leu Val Val Ser Glu Thr Gly Leu Val Tyr
20 25 30
Thr Phe Thr Thr Pro Lys Leu Gln Pro Leu Val Thr Lys Ala Glu Gly
35 40 45
Lys Asn Leu Ile Gln Val Ser Cys Leu His His Gly Arg Arg Lys Ile
50 55 60
Arg Asp Ala
65

<210> 23637
<211> 101
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23637
Ala Leu Ile Ser Ser Tyr Ala Ala Phe Arg Arg His Phe Arg Gly Leu
1 5 10 15
Val Leu Tyr Leu Gly Thr Ile Pro Asn Arg Ala Arg Lys Ala Thr Ile
20 25 30
Ile Gln His His Leu Pro Asn Ile Ser His Asn Gln Ile Phe His Met
35 40 45
Ile His Thr Asp Xaa Glu Gly Met Leu Thr Leu Ser Ile Ser Ile Leu
50 55 60
Leu Val Trp Ala Ile Lys Val Asn Gln Val Asn Ser Ser Ala Leu Pro

```
65                  70                  75                  80
Tyr Ala Phe Pro Ser Leu Ser Gly Ser Pro Thr Ala Leu Pro Asp His
                85                  90                  95
Gly Tyr Ala Ser Ala
            100
```

<210> 23638
<211> 249
<212> PRT
<213> A.fumigatus

<400> 23638

```
Leu Phe Ser Ser Arg Gln Thr Val Leu Thr Ile Gln Val Ala Asp Leu
1               5                   10                  15
Asp Leu Met Asp Gly His Val Ser Arg Leu Ile Asp Leu Val Pro Lys
            20                  25                  30
Asp Gly Ser Ala Phe Asp Ile Gln Arg Leu Phe Phe Leu Leu Thr Ile
        35                  40                  45
Asp Ser Ala Thr His Phe Leu Phe Gly Glu Ser Val Gly Ser Leu His
    50                  55                  60
Ala Gly Thr Asp Thr Gly Leu Leu Gly Arg Ser Ala Val Gly Asn Ala
65                  70                  75                  80
Glu Gly Phe Ala Glu Ala Phe Asn Lys Ala Gln Glu Tyr Leu Ala Ala
                85                  90                  95
Arg Ser Arg Ala Val Val Phe Tyr Trp Met Ile Asn Pro Lys Glu Phe
            100                 105                 110
Arg Asp Ala Asn Lys Arg Val His Glu Val Val Asp His Tyr Val Gln
        115                 120                 125
Leu Ala Leu Glu Ser Arg Arg Asn Pro Glu Lys Lys Gln Pro Gly Gly
    130                 135                 140
Arg Tyr Ile Phe Ala Glu Ala Leu Ala Ala Glu Asn Asp Asn Pro Lys
145                 150                 155                 160
Val Leu Arg Asp Asn Met Leu Asn Ile Leu Leu Ala Gly Arg Asp Thr
                165                 170                 175
Thr Ala Ser Leu Leu Ser Ser Thr Phe Phe Tyr Leu Ala Arg His Pro
            180                 185                 190
Asn Val Trp Ile Lys Leu Arg Gln Val Ile Val Asp Ala Phe Gly Asp
        195                 200                 205
Ala Glu His Pro Lys Glu Glu Ile Thr Gln Thr Lys Leu Lys Asp Ile
    210                 215                 220
Pro Tyr Leu Arg Tyr Val Leu Asn Glu Gly Thr Leu Thr Pro Arg Thr
225                 230                 235                 240
Gln Met Ser Ser Pro Arg Gly Cys Lys
                245
```

<210> 23639
<211> 109
<212> PRT
<213> A.fumigatus

<400> 23639

```
Pro Val Thr Met Cys Ala Ala Pro Cys Arg Leu Val Val Lys Thr Glu
1               5                   10                  15
Leu Ile Ala Glu Gln Tyr Gly Lys Tyr Gly Asn Thr Phe Thr Gln Thr
            20                  25                  30
Ile Phe Gly Gln Pro Leu Val Ser Thr Ile Glu Pro Glu Asn Leu Lys
```

```
        35                  40                  45
Ala Leu Leu Ala Thr Gln Phe Asn Asp Phe Glu Leu Gly Thr Arg His
    50                  55                  60
Arg Glu Phe Tyr Pro Leu Leu Gly Asp Gly Ile Phe Thr Leu Asp Gly
65                  70                  75                  80
Ala Gly Trp Ser His Ala Arg Ala Leu Leu Arg Pro Gln Phe Thr Arg
                85                  90                  95
Asp Gln Val Ser Asp Cys Phe Arg Leu Val Lys Leu Cys
            100                 105
```

<210> 23640
<211> 232
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (217),(220)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23640

```
Ala Gln Glu Pro Pro Tyr His Leu Leu Ala Thr Gly Ala Asn Ile Ser
1               5                   10                  15
Arg Lys Val Arg Ile Ile Phe Thr Gly Cys Leu Leu Gly Glu Ser Ile
            20                  25                  30
Ala Gly Gly Gln Lys Leu Ile Cys Pro Phe Tyr Ser Asn Leu Asp Trp
        35                  40                  45
Glu Ile Val Ile Val Asp Asp Gly Ser Pro Asp Gly Thr Leu Glu Val
    50                  55                  60
Ala Lys Gln Leu Gln Thr Leu Trp Gly Ser Glu His Ile Asn Leu Lys
65                  70                  75                  80
Pro Arg Ala Gly Lys Leu Gly Leu Gly Thr Ala Tyr Val Tyr Gly Leu
                85                  90                  95
Gln Tyr Val Arg Gly Asn Tyr Val Ile Ile Met Asp Ala Asp Phe Ser
            100                 105                 110
His His Pro Lys Phe Ile Pro Glu Met Ile Arg Ile Gln Lys Glu Thr
        115                 120                 125
Asp Ala Asp Ile Val Thr Gly Thr Arg Tyr Ala Ser Arg Asp Gly Ile
    130                 135                 140
Lys Gly Gly Val Tyr Gly Trp Asp Leu Phe Arg Lys Phe Thr Ser Arg
145                 150                 155                 160
Thr Ala Asn Leu Ile Ala Asp Val Met Leu Met Pro Gly Val Ser Asp
                165                 170                 175
Leu Thr Gly Ser Phe Arg Leu Tyr Lys Lys Ser Val Leu Glu Lys Val
            180                 185                 190
Ile His Ser Thr Gln Ser Lys Gly Tyr Ser Phe Gln Met Glu Met Met
        195                 200                 205
Val Arg Ala Lys Ala Asn Gly Phe Xaa Val Ala Xaa Cys Ser Ile Thr
    210                 215                 220
Phe Val Asp Arg Leu Tyr Gly Gly
225                 230
```

<210> 23641
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23641
Asp Leu Lys Ser Val Ala Ser Glu Ser Leu Gln Ser Ile Thr Ile Lys
1 5 10 15
Met Lys Phe Asn Ile Ile Ala Val Ser Ser Leu Leu Val Leu Ala Thr
20 25 30
Ala Gln Ser Thr Thr Glu Ser Ala Pro Ser Thr Thr Thr Ser Leu Ser
35 40 45
Pro Glu Ala Ser Cys Ala Ala Lys Cys Ser Tyr Phe Tyr Leu Phe Leu
50 55 60
Asn Tyr Pro Ser His Lys Ala Asn Leu Ala Ile Ala Phe Arg Arg Phe
65 70 75 80

<210> 23642
<211> 116
<212> PRT
<213> A.fumigatus

<400> 23642
Thr Ile Arg Leu Ile Lys Leu Thr Leu Gln Leu His Leu Gly Gly Ser
1 5 10 15
Asn Asp Ile Cys Cys Val Ala Gly Cys Tyr Asn Val Pro Cys Pro Ser
20 25 30
Asp Gln Gln Ala Asn Asp Thr Ile Ser Cys Val Ala Ala Cys Pro Gln
35 40 45
Gly Ser Gly Thr Pro Ser Asp Thr Asp Lys Tyr Ala Ala Cys Gln Asn
50 55 60
Ser Cys Tyr Ser Ser His Phe Phe Pro Ala Thr Met Thr Asn Ala Gly
65 70 75 80
Ser Ala Lys Thr Gly Val Ser Ser Asn Thr Ala Thr Thr Thr Gly Thr
85 90 95
Gly Ser Ser Ser Ser Glu Thr Gly Thr Ser Gly Met Ser Leu Val Leu
100 105 110
Phe Gly His Phe
115

<210> 23643
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23643
Ile Leu Ser Arg Met Pro Lys Leu Ile Gly Gln Ser Ala Gly Ser Asp
1 5 10 15
Ser Thr Ala Ser Gly Ser Gly Thr Ala Thr Ser Ser Ser Thr Ala Thr
20 25 30
Ser Thr Pro Asn Ala Ala Val Val Ser Gln Met Gln Leu Gly Val Ser
35 40 45
Ala Ala Gly Leu Leu Gly Phe Val Leu Ala Ala Trp Ala Leu
50 55 60

<210> 23644
<211> 81
<212> PRT
<213> A.fumigatus

<400> 23644
Cys Met Glu Glu Val Ser Tyr Leu Val Gly Ser Ser Pro Thr Met Val
1 5 10 15
Arg Asp Leu Ser Arg Gln Phe Asp Asn Lys Ser Arg Glu Ser Gly Thr
20 25 30
Pro His Cys Ile Lys Leu Arg Cys Pro Cys Phe Leu Leu Ala Gly Lys
35 40 45
His Met Glu Ser Ser Tyr Tyr Val Trp Tyr Asp Val Val Asp Phe Phe
50 55 60
Pro Ser Ala Ile Leu Glu Met Lys Asn Tyr Pro Trp Phe Ile Arg Lys
65 70 75 80
Tyr

<210> 23645
<211> 451
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (392),(422)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23645
Ser Leu Phe Leu Pro Leu Phe Arg Ser Ala Asn His Gly Ile His Ala
1 5 10 15
Glu Asn Lys Ser Phe Gln Pro Pro Ile Phe Leu Lys Cys Gly Pro Leu
20 25 30
Leu Arg Tyr Thr Gly Leu Lys Arg Val Arg Ile Asp Gly Pro Asn Gly
35 40 45
Pro Phe Asp Lys Glu Thr Trp Arg Gly Ser Val Met Ile Val Thr Lys
50 55 60
Asp Ser Arg Ser Ser Tyr Glu Ser Pro Pro Thr Leu Arg Leu Phe Ser
65 70 75 80
Gln Pro Met Asp Leu Leu Pro Pro Pro Pro Val Glu Val Ser Asp Ala
85 90 95
Gln Leu Ala Pro Glu Tyr Val Asp Pro Thr Ala Gly Leu Met Lys Leu
100 105 110
Gly Arg Asp Gly Arg Pro Leu Tyr Val Lys Pro Ile Asp His Thr Glu
115 120 125
Glu Gly Val Asp Leu Ser Phe Val Glu Asn Asp Asp Gly Val Tyr Glu
130 135 140
Met Ser Pro Ser Asn Leu Asp Tyr Ser Ser Asp Gly Val Lys Gln Ser
145 150 155 160
Ile Pro Ala Asn Arg Leu His Ser Val Asp Gly Glu Thr Val Gly Ala
165 170 175
Tyr Lys Glu Ile Pro Gly Ala Arg Leu Tyr Ala Asp Ser Ala Arg Asp
180 185 190
Val Thr Phe Trp Arg Phe Asn Ile Glu Ile Glu Leu Gly Glu Thr Gln
195 200 205
Gln Arg Ile Ala Tyr Arg Leu Asn His Gly Pro Ala Leu Gly Phe Trp
210 215 220
Val Pro Ala Arg Gly Gln Ser Met Asn Ile Met Phe Tyr Ser Cys Asn
225 230 235 240
Gly Phe Ser Leu Gly Val Asp Ser Asn Lys Phe Cys Gly Pro Asp Pro

```
                245                 250                 255
Leu Trp Arg Asp Val Leu Asn Glu His Gln Thr Arg Pro Phe His Val
            260                 265                 270
Met Ile Gly Gly Gly Asp Gln Ile Ser Asn Asp Arg Val Met Leu Asp
        275                 280                 285
Ser Pro Arg Phe Gln Glu Trp Ile Lys Val Lys Asn Leu Thr Asp Lys
    290                 295                 300
Tyr Asp Met Pro Phe Asp Pro Glu Phe Arg Ala Glu Ile Glu Ser Phe
305                 310                 315                 320
Tyr Leu Glu Asn Tyr Ser Ala Trp Phe Ser Gln Gly Leu Phe Ser Leu
                325                 330                 335
Ala Asn Ser Gln Ile Pro Met Val Asn Ile Trp Asn Asp His Asp Ile
            340                 345                 350
Ile Glu Gly Phe Gly Ser Tyr Pro Asp Glu Phe Met Ala Thr Pro Val
        355                 360                 365
Ile Ser Gly Leu Gly Arg Ile Ala Phe Lys Tyr Tyr Leu Leu Phe Gln
    370                 375                 380
His His Ser Leu Thr Glu Glu Xaa Glu Ala Asp Glu Pro Ser Trp Leu
385                 390                 395                 400
Leu Gly Ala Gln Leu Gly Pro Tyr Ile Asn Gln Arg Asn Arg Asn Val
                405                 410                 415
Phe Met Ser Leu Gly Xaa Glu Ile Thr Phe Leu Gly Leu Asp Cys Arg
            420                 425                 430
Asn Glu Arg Leu Val Arg Ile Met Cys Phe Pro Gly Gly Lys Glu Lys
        435                 440                 445
Gly Lys Cys
    450
```

<210> 23646
<211> 118
<212> PRT
<213> A.fumigatus

```
<400> 23646
Arg Arg Ser Glu Ala Leu Lys Pro Leu Gln Ala Asn Ser Ile Ile Ser
1               5                   10                  15
Glu Cys Asp Ile Arg Leu Phe Lys Pro Val Leu Met Leu Leu Phe Leu
            20                  25                  30
Leu Leu Gly Cys Pro Thr Pro Gln Arg Ile Val Thr Tyr Ser Leu Ser
        35                  40                  45
Ser Asn Arg Gln Arg Pro Leu Ala Gly Ala Phe His Ala Ala Ile Phe
    50                  55                  60
Asn Thr Phe Arg Arg Phe Arg Ser Gln Val Leu Tyr Val Val Pro Pro
65                  70                  75                  80
Phe Val Val Ala Tyr Ala Ala Met Asn Trp Ala Ile Glu Arg Tyr Ala
                85                  90                  95
Pro Ser Cys Leu Ala Ser Leu Phe Ala Leu Gln Ala Ser Asn Gln Ser
            100                 105                 110
Leu Ile Val Ala Ile Val
        115
```

<210> 23647
<211> 107
<212> PRT
<213> A.fumigatus

<400> 23647
Gly Arg Pro Ile Arg Thr Ile Leu Ala Pro Ser Ala Arg Ala Leu Ala
1 5 10 15
Thr Ser Ala Pro Gln Arg Thr Pro Glu Ser Lys Met Thr Ser Arg Ser
20 25 30
Phe Pro Thr Ala Ser Thr Met Ser Gly Ser Met Ser Lys Asp Pro Thr
35 40 45
Pro Pro Ser Cys Trp Arg Pro Pro Trp Leu Asp Thr Thr Ile Pro Cys
50 55 60
Ile Pro Tyr Ser Thr Ala Ser Phe Ala Ser Ser Thr Val Cys Ile Pro
65 70 75 80
Phe Ser Thr Ile Gly Pro Ser Gln Cys Cys Arg Arg Asn Trp Arg Ser
85 90 95
Ser His Pro Trp Leu Ile Pro Gly Asn Ile Ile
100 105

<210> 23648
<211> 221
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23648
Val Thr Xaa Asp Thr Tyr Ile Val Gly Trp Arg Pro Ser Asp Leu Asp
1 5 10 15
Asn Gly Tyr His Pro Phe Leu Arg Lys Asp His Ile Gly Val Ala Thr
20 25 30
Gly Phe Ser Asp Pro Val Phe Gln Lys Lys Phe Ala Glu Lys His Gly
35 40 45
Lys Ser Ile Pro Val Asp Met Ala Thr Ala Ala Ala Glu Trp Ala His
50 55 60
Met Ile Phe Pro Gly Met Ser His Gly Trp Glu Asp Leu Gln Phe Leu
65 70 75 80
Arg Gln His Trp Asp Gly Pro Ile Val Leu Lys Gly Ile Gln Thr Val
85 90 95
Glu Asp Ala Lys Leu Ala Val Glu Tyr Gly Met Gln Gly Ile Val Val
100 105 110
Ser Asn His Gly Gly Arg Gln Gln Asp Gly Gly Val Gly Ser Leu Asp
115 120 125
Met Leu Pro Asp Ile Val Asp Ala Val Gly Lys Asp Leu Glu Val Ile
130 135 140
Phe Asp Ser Gly Val Arg Cys Gly Ala Asp Val Ala Lys Ala Leu Ala
145 150 155 160
Leu Gly Ala Lys Met Val Leu Ile Gly Arg Pro Tyr Val Tyr Gly Leu
165 170 175
Ala Ile Ala Gly Arg Glu Gly Val Arg His Val Leu Gln Ser Thr Leu
180 185 190
Gly Asp Leu Gln Leu Thr Leu His Leu Ser Gly Ile Arg Ser Val Gln
195 200 205
Pro Glu His Leu Asn Arg Ser Arg Leu Arg Arg Met Asp
210 215 220

<210> 23649
<211> 124
<212> PRT
<213> A.fumigatus

<400> 23649
Asn His Ser Cys Arg Cys Tyr Val Thr Leu Lys Ile Phe Ile Lys Ser
1 5 10 15
Ala Ser Met Gly Gln Gln Leu Asp Asp Glu Leu Gln Met Tyr Lys Arg
20 25 30
Met Glu Arg Gly Ser Lys Asn His Pro Gly Arg Ser Ala Val Arg Ser
35 40 45
Leu Leu Asp Ser Phe Asp Val Asp Gly Pro Glu Asp Lys His Arg Cys
50 55 60
Leu Val His Pro Pro Leu Trp Asp Ser Val Leu Thr Phe Leu His Arg
65 70 75 80
Asn Pro Glu Gln Arg Leu Pro Ala Pro Val Leu Ala Phe Val Leu Lys
85 90 95
Arg Leu Phe Leu Ala Leu Asp Tyr Leu His Thr Glu Cys Gln Ile Ile
100 105 110
His Ala Gly Ile Tyr Ser Gly Gly Pro Met Asp Val
115 120

<210> 23650
<211> 136
<212> PRT
<213> A.fumigatus

<400> 23650
Lys Met Ala Ser Gln Ile Trp Asn Ile Phe Glu Gly Glu Ser Leu Phe
1 5 10 15
Thr Gly Tyr Asp Pro Glu Ser His Thr Tyr Arg Ser Arg Ala His Leu
20 25 30
Ala Glu Ile Ile Lys Leu Leu Gly Pro Pro Ser Pro Ser Leu Leu Ala
35 40 45
Arg Gly Lys Leu Ser His Lys Phe Phe Ser Asp Glu Gly Lys Pro Met
50 55 60
Pro Leu Ser Phe Gln Tyr Pro Leu Thr Leu Ser Asn Val Ile Asp Asp
65 70 75 80
Leu Cys Ala Lys Val Leu Ser Glu Gly Arg Ile Pro Leu Glu Lys Arg
85 90 95
Glu Thr Thr Leu Gln Gly Gln Asp Lys Ala Asp Phe Leu Arg Leu Met
100 105 110
Leu Lys Met Leu Gln Trp Asp Pro Ala Asn Arg Ser Ser Ala Arg Glu
115 120 125
Leu Gln Glu Asp Glu Trp Met Ser
130 135

<210> 23651
<211> 89
<212> PRT
<213> A.fumigatus

<400> 23651
Gly Glu Phe Leu Thr Tyr Leu Cys Val Leu Gly Phe His Thr Pro Ser
1 5 10 15

```
Lys Phe Leu Ser Ile Asp His Leu Val Arg Met Glu Ser Phe Asp Val
            20                  25                  30
Thr Asp Ile Ser Asn Ala Leu Lys Glu Val Thr Gly Glu Lys Ile Tyr
        35                  40                  45
Lys Asn Val Glu Ala Ser Asn Leu Ala Arg Glu Lys Gly Trp Val Leu
    50                  55                  60
Pro Glu Gln Tyr Asp Tyr Thr Lys Leu Gln Gln Trp Val Leu Leu Glu
65                  70                  75                  80
Asn Pro Glu Asp Val Thr Glu Gln Lys
                85
```

<210> 23652
<211> 159
<212> PRT
<213> A.fumigatus

<400> 23652

```
Ala Ser Ser Pro Asp Lys Lys Pro Pro Trp Leu Arg Thr Leu Gly Thr
1               5                   10                  15
Thr Met Thr Ser Thr Leu Pro Tyr Leu Thr Ser Pro Pro Ala Thr His
            20                  25                  30
Pro Ser Asn Ser Asp His Lys Lys Leu Arg Ser Ala Cys Asp Ser Cys
        35                  40                  45
His Gln Cys Lys Val Lys Cys Ser Gly Gly Ser Pro Cys Phe Arg Cys
    50                  55                  60
Thr Ser Lys Gly Leu Asn Cys Arg Tyr Gly Tyr Gln Asn Arg Ala Gly
65                  70                  75                  80
Lys Pro Lys Gly Ser Lys Asn Arg Lys Thr Leu Glu Arg Glu His Gln
                85                  90                  95
Leu Arg Met Glu Trp Leu Thr Ser Gln Leu Arg Asp Ala Asn Gly Gly
            100                 105                 110
Leu Gly Asn Leu Asn Ile Asp Leu Ser Asp Pro Thr Thr Leu Leu Pro
        115                 120                 125
Ser Pro Phe Phe Gln Ser Thr Arg Trp Lys Gln Val Ser Arg Cys Leu
    130                 135                 140
Cys His Pro Gly Tyr Leu Leu Ser Leu Met Leu Ala Gly Ala Asn
145                 150                 155
```

<210> 23653
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23653

```
Asp Arg Glu Asp Ser Val Cys Phe Gly Leu Leu Gly Ala Leu Ile Asp
1               5                   10                  15
Arg Thr Asp Phe Leu Ser Ile Pro Arg Leu Gln Leu Gln Gly Glu Leu
            20                  25                  30
Gln Ala Lys Ser Glu Ala Val Lys Lys Tyr Lys Gly Val Phe His Gly
        35                  40                  45
Val Lys Gly His Phe Ala Lys Met Lys Val Leu Gly Gly Leu Phe Pro
    50                  55                  60
Gly Asn Arg Leu
65
```

<210> 23654

<211> 215
<212> PRT
<213> A.fumigatus

<400> 23654
Ala Ala Arg Tyr Leu Leu Ala Pro Ala Cys Val His Pro Leu Arg Ile
1 5 10 15
Asp Gly Asn Ala Tyr Val Trp Glu Gln Thr Pro Thr Gly Trp Lys Pro
20 25 30
Thr Leu Val Leu Leu Arg Ile Asn Arg Ala Ala Thr Phe Val Arg Trp
35 40 45
Ser Pro Ser Glu Gln Lys Phe Ala Val Gly Ser Gly Ala Arg Val Ile
50 55 60
Ala Val Cys Tyr Phe Glu Glu Glu Asn Asp Trp Trp Ile Ser Lys His
65 70 75 80
Leu Lys Lys Pro Ile Arg Ser Thr Ile Thr Thr Leu Ser Trp His Pro
85 90 95
Asn Ser Val Leu Leu Ala Ala Gly Ser Thr Asp Ser His Ala Arg Val
100 105 110
Phe Ser Ser Phe Ile Lys Gly Ile Asp Thr Arg Pro Glu Pro Ser Ala
115 120 125
Trp Gly Glu Arg Leu Pro Phe Asn Thr Val Cys Gly Glu Phe Leu Asn
130 135 140
Asp Ser Ala Gly Trp Ile His Ala Val Cys Phe Ser Pro Ser Gly Asn
145 150 155 160
Ala Leu Ala Phe Thr Gly His Asp Ser Ser Val Thr Val Val Tyr Pro
165 170 175
Ser Ala Pro Glu Gln Pro Pro Arg Ala Met Leu Asn Ile Thr Thr Arg
180 185 190
Leu Leu Pro Phe Thr Ser Leu Ile Trp Asn Gly Glu Asn Glu Ile Ile
195 200 205
Ala Ala Gly His Val Ser Phe
210 215

<210> 23655
<211> 117
<212> PRT
<213> A.fumigatus

<400> 23655
Asp Cys Glu Pro Phe Arg Phe Ser Gly Asp Glu Ser Gly Trp Lys Leu
1 5 10 15
Ala Gly Ala Ile Glu Ser Lys Thr Gly Ala Gly Ala Gly Ser Val Arg
20 25 30
Asp Glu Ser Ala Leu Asn Met Phe Arg Gln Met Asp Leu Lys Gly Gln
35 40 45
Thr His Ala Asp Thr Gln Leu Lys Thr Ile His Gln Asn Thr Ile Asn
50 55 60
Thr Ile Arg Val Tyr Lys Glu Thr Gly Gly Ala Val His Gln Phe Ser
65 70 75 80
Ser Glu Leu Tyr Met Leu His Tyr Lys Ala Leu Ala Leu Pro Glu Arg
85 90 95
Asp Ile Thr Asn Gly Cys Val Leu Ala Ser Gly Val Asp Gly Arg Val
100 105 110
Val Val Trp Thr Ile
115

<210> 23656
<211> 295
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (225)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23656

```
Pro Ser Asp Leu Lys Asn Gly Ser Ala Tyr Ser Leu Asn Gly Pro Arg
1               5                  10                  15
Ser Ser Ala Ser Ser Tyr Thr Arg Asp Leu Pro His Ser Lys Asp Gly
            20                  25                  30
Ser Met His Ser Leu Gly Asn Gly Ser Val Arg Asp Pro Arg Glu Ser
        35                  40                  45
Gly Arg Phe Ser Met Thr Met Asp Lys Asp Phe Thr Arg Lys Ser Ser
    50                  55                  60
Asp Ala Gly Ala Ser Ala Gly Ile Gly Ser Ala Ala Gly Ser Ile Ser
65                  70                  75                  80
Ser Ala Gln Gln Val Asn Gly Ile Ser Pro Ser His Arg Thr Thr Asn
                85                  90                  95
Gly Lys Ser Leu Val Asn Gly Asp Arg Pro Gln Pro Ser Ala Asp Glu
            100                 105                 110
Val Val Ser Gln Asn Ser Ala Ala Ala Ala Asn Gly Asn Thr Ile Val
        115                 120                 125
Ala Ser Leu Pro Glu Asp Thr Ser Arg Leu Ala Ser Glu Pro Asp Arg
    130                 135                 140
Leu Ala Ala Ser Arg Thr Thr Thr Pro His Arg Tyr Ser Ser Pro Pro
145                 150                 155                 160
Leu Pro Ser Ala Ser Ala Asp Ala Ser His Pro Gln Asp Pro Ala Ala
                165                 170                 175
Ser Ser Gly Leu Arg His Arg His Thr Leu Gln Val Pro Arg Ala Thr
            180                 185                 190
Ser Ala Arg Arg Asn Ser Arg Asp Gln Gly Asp Glu Thr Ala Tyr Ser
        195                 200                 205
Asn Gly Arg Leu Ser Pro Thr Ala Gly Ala Ile Arg Arg Thr Ser Leu
    210                 215                 220
Xaa Leu Val Arg Arg Ala Thr Lys Thr Asn Pro Ala Asp Ser Val Pro
225                 230                 235                 240
Asp Glu Ala Asn Ala Asn Asp Asp Ala Pro Arg Trp Ala Glu Ala Ile
                245                 250                 255
Met Gln Arg Arg Ala Ser Arg Arg Lys Arg Arg Asp Glu His Asp Asp
            260                 265                 270
Asp Arg Val Phe Val Gly Thr Thr Val Asp Gln Lys Pro Leu Lys Trp
        275                 280                 285
Val Thr Ala Phe Asn Met Leu
    290                 295
```

<210> 23657
<211> 99
<212> PRT
<213> A.fumigatus

<400> 23657
His Leu Leu Ser Asp Leu Ala Pro Ser Leu Leu Lys Pro Glu Trp Phe
1 5 10 15
Arg Ser Val Phe Ala Val Leu Asp Pro Gln Ser Ala Glu Leu Leu Asn
20 25 30
Leu Arg Ile Ser Tyr Asp Ile Arg Lys Asn Asn Asn Arg Asn Asn Gln
35 40 45
Thr Thr Leu Thr His Asp Leu His Trp Ala Asn Trp Ser Ser Ser Ala
50 55 60
Asp Pro Tyr Leu Thr Tyr Gln Tyr Val Arg Thr Leu Asn Thr Thr Gly
65 70 75 80
Asn Trp Ser Val Ile Trp Glu Leu Tyr Trp Gln Ser Cys Asp Glu Glu
85 90 95
Ala Glu Ser

<210> 23658
<211> 158
<212> PRT
<213> A.fumigatus

<400> 23658
Ser Gly Ser Ser Thr Gly Lys Ala Ala Thr Arg Lys Arg Asn Arg Asp
1 5 10 15
Glu Lys Val Leu Pro Ser Asp His Asp Gly Gly Val Phe Glu His Tyr
20 25 30
Tyr Ser Trp Trp Gln His Phe Thr Ile Asp Asp Ser Ala Leu Lys Lys
35 40 45
Val Asp Leu Val Ala Ala Thr Ala Asn Ala Thr Cys Pro Gly Asp Arg
50 55 60
Asn Ala Ile Ala Ile Asn Val Thr Asp Thr Thr Met His Ser Pro Pro
65 70 75 80
Gly Leu Asn Ser Ala Gly Arg Asp Thr Cys Val Val Thr Ala Thr Thr
85 90 95
Thr Ala Ser Ala Thr Arg Thr Thr Pro Asp Pro Cys Arg Val Ala Ile
100 105 110
Asp Ala Asp Ala Glu Ala Ser Met Ala Ala Val His Gln Lys Leu Leu
115 120 125
Cys Asp His Leu Lys Asn Ser Asn Pro Pro Glu Val Cys Pro Ala Glu
130 135 140
Glu Asn Gly Ala Gln Gln Leu Ala Ala Leu Gly Val Ala Ser
145 150 155

<210> 23659
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23659
Lys Arg Gly Ala Leu Phe Ser Pro Lys Thr Pro Pro Gln Lys Lys Glu
1 5 10 15
Ile Phe Phe Pro Phe Phe Pro Arg Gly Phe Phe Phe Pro Pro Lys Pro
20 25 30
Pro Phe Phe Phe Pro Gly Ala Pro Pro Phe Ser Pro Pro Asn Phe Phe
35 40 45
Trp Glu Ile Phe Pro Pro Lys Ile Leu Asn Phe Pro Gln Ile Phe Phe

```
    50                  55                  60
Phe Phe Pro Pro Pro Pro Leu Lys Lys Ser Pro Lys Ile Leu Lys Lys
65                  70                  75                  80
Lys Pro Pro Pro Gln Asn Pro Gly Gly Gly Pro Gln Thr Gln Lys Leu
                85                  90                  95
Gly Thr Ser Gln Val Leu Arg Ser Leu Ala Arg Ala Thr Arg Ala Ser
            100                 105                 110
Pro Ser Arg Ser Ile His Ile Gln Pro Ala Ser Leu Arg Pro Ser Arg
        115                 120                 125
Pro Thr Cys Ser Val
    130
```

<210> 23660
<211> 118
<212> PRT
<213> A.fumigatus

<400> 23660

```
Gln Asn Leu Ser Pro Leu Ser Gln Pro Thr Leu Ser Arg Pro Phe Ser
1               5                   10                  15
His Ser Ala Pro Val Ser Ser Ser Pro Phe Arg Leu Thr Ser Lys Pro
            20                  25                  30
Asp Thr Asp His Thr Ile Pro Pro Glu Pro Pro Leu Asp Gly Glu Pro
        35                  40                  45
Ala Pro Tyr Tyr Ser Pro Tyr Lys Pro Lys Arg Gln Trp Pro Pro Asp
    50                  55                  60
Met Ser Lys Leu Ser Pro Lys His Gln Phe Arg Leu Glu Arg Lys Tyr
65                  70                  75                  80
Arg Arg Arg Ala Ala Leu Lys Phe Ala Arg Pro Lys Trp Val Lys Thr
                85                  90                  95
Thr Asn Leu Ile Gln Trp Gly Val Ile Gly Cys Lys Phe Ser Val Phe
            100                 105                 110
Val Arg Gly Lys Ala Ile
        115
```

<210> 23661
<211> 182
<212> PRT
<213> A.fumigatus

<400> 23661

```
Gln Pro Pro Pro Gly Gly Gly Gly Phe Phe Leu Pro Leu Phe Phe Pro
1               5                   10                  15
Pro Lys Lys Lys Lys Phe Phe Phe Phe Gly Gly Lys Thr Pro Pro Gln
            20                  25                  30
Lys Gly Val Leu Lys Lys Gly Gly Pro Phe Phe Pro Lys Asn Pro Pro
        35                  40                  45
Pro Lys Lys Arg Asn Phe Phe Pro Phe Phe Pro Pro Gly Val Phe Phe
    50                  55                  60
Ser Pro Lys Thr Ser Phe Phe Phe Ser Gly Gly Pro Pro Phe Phe Pro
65                  70                  75                  80
Pro Lys Phe Phe Leu Gly Asn Phe Ser Pro Gln Asn Phe Lys Phe Ser
                85                  90                  95
Pro Asn Phe Phe Phe Phe Ser Pro Pro Pro Phe Lys Lys Lys Pro Gln
            100                 105                 110
Asn Phe Lys Lys Lys Ala Pro Pro Pro Lys Pro Arg Gly Gly Ala Pro
```

```
        115                 120                 125
Asn Pro Lys Ile Gly His Phe Pro Gly Pro Ala Gln Pro Gly Lys Gly
    130                 135                 140
His Thr Arg Ile Pro Leu Pro Ile His Pro His Pro Ala Arg Phe Ile
145                 150                 155                 160
Lys Ala Ile Pro Thr Asn Met Gln Arg Met Ile Phe Phe Ile Pro Ser
                165                 170                 175
Leu Val Ile Pro Leu Leu
            180
```

<210> 23662
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23662

```
Tyr Ala Phe Arg Ser Arg Leu Val Met Asn Gly Gly Arg Ser Phe Ser
1               5                   10                  15
Ile Cys Leu Gln Ser Val Ile Glu Gly Leu Ile Ala Leu Glu Asn Leu
            20                  25                  30
Ser Val Ser Arg His Ala Arg Val Trp Tyr Leu Leu Val Val Arg Ser
        35                  40                  45
Ile Glu Ser Thr Ser Asp Thr Trp Ala His Arg His Ile Thr
    50                  55                  60
```

<210> 23663
<211> 225
<212> PRT
<213> A.fumigatus

<400> 23663

```
Gly Val Asn Ser Arg Pro Asp Leu Gly Trp Asn Pro Ser Val Lys Phe
1               5                   10                  15
Val Ala Trp Glu Gly Ile Gln Ala Gly Gln Lys His Gly Gly Glu Phe
            20                  25                  30
Gly His Trp His Pro Ile Asn Gly Phe Val Ala Leu Arg Val Thr Gly
        35                  40                  45
Leu Ala Cys Pro His Thr Ser Ser Arg Ile Leu Leu His Gln Gln Pro
    50                  55                  60
His Pro Gln Gln Gln Gln Tyr Ser Ser Phe Pro Trp Asp Gln Leu Ser
65                  70                  75                  80
Lys Ser Pro Lys Pro Gly Ile Ser Asn Leu Ser Lys Leu Glu Ser Ala
                85                  90                  95
Phe Ser Ser Phe Leu Pro Gly Gly Ser Ser Arg Glu Glu Arg Val Glu
            100                 105                 110
Asn Val Ala Pro Gln His Gln Ala Pro Tyr Gln His Gln Gln Pro Asp
        115                 120                 125
Arg Pro Tyr Gln Pro His Gly Gln Gln Pro Tyr Glu Thr His Ser Gln
    130                 135                 140
Pro His His Pro Gln Tyr Tyr Gln Pro Pro Pro Gln Gln His Pro Gly
145                 150                 155                 160
Gly Gly Tyr Gly Glu Pro His Gly Gly Tyr Gln Ser Thr Pro Tyr Gly
                165                 170                 175
Asp Gln Tyr Gly His Pro Pro Pro Val Pro Gly Tyr Arg Pro Pro Glu
            180                 185                 190
His Gln His His Glu His His His Gln Ser His Gly His Gly Glu Gly
```

```
        195                 200                 205
Tyr His Gly Tyr Pro Gly Ser Gly Tyr Asp Asn Arg Tyr Gly Ser Gly
    210                 215                 220
Tyr
225

<210> 23664
<211> 126
<212> PRT
<213> A.fumigatus

<400> 23664
Leu Gly Leu Phe Leu Phe Phe Ile Ala Val Arg Leu Gly Val Tyr Asn
1               5                   10                  15
Tyr Ser Leu Lys Val Leu Asn Glu Gly Gln Thr Ile Leu Gly Thr Asn
            20                  25                  30
Glu Gln His Pro Pro Leu Met Lys Ser Phe Thr Lys Gln Phe Trp Asp
        35                  40                  45
Met Tyr Leu Thr Val Val His Leu Met Asp Pro Trp Asn Trp Ala Leu
    50                  55                  60
Tyr Tyr Asn Tyr Tyr Asn Pro His Leu Trp Thr Ile Pro Val Glu Phe
65                  70                  75                  80
Arg Cys Ser Ile Val Leu Phe Leu Thr Ile Ile Ala Thr Ser Arg Val
                85                  90                  95
Thr Ala Val Ala Arg Leu Ser Leu Val Ser Gly Leu Val Trp Phe Cys
            100                 105                 110
Met Arg Val Phe Thr Asp Gly Gly Trp Lys Asp Thr Ser Phe
        115                 120                 125

<210> 23665
<211> 195
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (152),(187),(195)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23665
His Lys His His Pro Gln Asp Met Leu Leu Ile Asp Lys Asp Thr Arg
1               5                   10                  15
Pro Ser Pro Ala Ile His Asp Ile Pro Leu Asp Asp Leu Glu Ser Gly
            20                  25                  30
Pro Tyr Gly Ser Lys Ser Ser Phe Asn Trp Thr Asn Leu Ser Asp Tyr
        35                  40                  45
Thr Pro Ser Arg Val Leu Thr Arg Pro Asp Arg Leu Ser Ser His Val
    50                  55                  60
Gln His Val Ser Asn His Trp Gln Glu Tyr Leu Asp Arg Trp Leu Lys
65                  70                  75                  80
Arg Leu Gly Ile Ala Leu Thr Pro Ser Tyr Leu Gln His Leu Val Gly
                85                  90                  95
Gly Glu Pro Pro Gln Pro Thr Lys Phe His Ala Ile Ala Ala Leu Asp
            100                 105                 110
Gly Leu Arg Gly Trp Ala Cys Leu Leu Val Phe Asn Phe His Phe Leu
        115                 120                 125
```

```
Phe Thr Tyr Thr Trp Lys Val Ala Val Gly Trp Gly Phe Asn Asn Glu
    130                 135                 140
Asn Tyr Gly Ile Phe His Leu Xaa Ile Ile His Phe Leu Phe Ser Gly
145                 150                 155                 160
His Ile Met Val Ala Ile Phe Phe Val Ile Ser Gly Tyr Val Leu Ser
                165                 170                 175
Tyr Lys Pro Leu Lys Met Ile Arg Thr Arg Xaa Trp Glu Gln Thr Leu
            180                 185                 190
Ala Thr Xaa
        195
```

<210> 23666
<211> 137
<212> PRT
<213> A.fumigatus

<400> 23666

```
Thr Glu Arg Gly Leu Asp Ala Cys Ile Phe Gln Val Arg Pro Ala Ile
1               5                   10                  15
Ala Val Glu Thr Ile Phe Glu Arg Ala Leu Arg Ser Val Ser Ile His
            20                  25                  30
Arg Arg Lys Ser Arg Gln Thr Phe Val Phe Leu His Phe Gln Val Leu
        35                  40                  45
Thr His Phe Val Lys Met Gly Phe Gly Gln Phe Asp Ser Ile Cys Gln
    50                  55                  60
Lys Ala Ala Leu Pro Leu Cys Ser Leu Val Gly Pro Ser Ser Pro Ile
65                  70                  75                  80
Ser Gly Ser Thr Gly Ile Ile Pro Asn Cys Tyr Ala Arg Asn Ile Glu
                85                  90                  95
Leu Ala Asn Thr Ile Ile Phe Glu Gly Ala Ala Ser Phe Val His Ile
            100                 105                 110
Ile Ala Leu Gly Met Thr Val Ile Met Ile Leu His Val Arg Ser Lys
        115                 120                 125
Phe Thr Ala Val Gly Glu Ser Arg Thr
    130                 135
```

<210> 23667
<211> 229
<212> PRT
<213> A.fumigatus

<400> 23667

```
Thr Pro Ile Ala Arg Phe Val Gln Cys Pro Trp Trp Lys Asn Ile Phe
1               5                   10                  15
Ile Ala Asn Ala Gly Val Met Ala Thr Pro Glu Gly Arg Thr Lys Asp
            20                  25                  30
Gly Phe Glu Thr Gln Leu Gly Thr Asn Tyr Leu Ser His Leu Leu Leu
        35                  40                  45
Phe Leu Leu Leu Arg Pro Ala Leu Leu Ala Ala Ala Thr Pro Gln Ala
    50                  55                  60
Asn Ser Arg Val Val Leu Leu Ser Ser Ile Ala His Arg Tyr Ser Glu
65                  70                  75                  80
Val Glu Phe Asp Asn Leu Asn Leu Asp Gly Gln Tyr Asp Arg Trp Lys
                85                  90                  95
Ala Tyr Gly Gln Ser Lys Cys Ala Leu Val Trp Ala Ala Asn Glu Ile
            100                 105                 110
```

```
Asp Arg Arg Tyr Ala Ser His Gly Leu Arg Ala Phe Ser Val Gln Pro
        115                 120                 125
Gly Gly Ile Met Thr Gly Leu Val His His Leu Ser Glu Glu Glu Gln
    130                 135                 140
Ser Gly Phe Thr Glu Asp Pro Thr Leu Gly Pro Gln Phe Lys Ser Pro
145                 150                 155                 160
Gln Gln Gly Ala Ala Thr Ser Val Trp Ala Ala Val Ser Arg Ser Leu
                165                 170                 175
Asp Gly Met Gly Gly Lys Tyr Leu Glu Asn Val Gln Ile Ala Glu Ala
            180                 185                 190
Tyr Asp Ala Ser Gly Gly Pro Trp Ala Pro Gly Tyr Ala Pro Tyr Ala
        195                 200                 205
Tyr Ser Pro Glu Lys Glu Arg Arg Leu Trp Asp Val Ser Leu Lys Leu
    210                 215                 220
Val Gly Val Asp Glu
225
```

<210> 23668
<211> 352
<212> PRT
<213> A.fumigatus

<400> 23668

```
Thr Arg Leu Phe Leu Gly Arg Val Ile Ala Ile Arg Leu Val Ser Ala
1               5                   10                  15
Phe Ile His Gln Arg Ile Pro Ser His Val Val Asp Cys Ala His Ser
            20                  25                  30
His Gln Pro Asn Thr Gln Asp Pro Glu Arg Gly Glu Val Gly Arg Gln
        35                  40                  45
Glu Gln Leu Ala Ser Ala Pro Asn Gln Ala Asn Gly Ser Thr Glu Arg
    50                  55                  60
Thr Pro Leu Leu Leu Gln Ser Lys Pro Pro Ser Arg Lys Ser Met Pro
65                  70                  75                  80
Gly Ala Val Glu Arg Pro Ala Leu Glu Pro Leu Arg Ser Arg Leu Thr
                85                  90                  95
Arg Arg Ile Asn Gln Leu Met Gly Gly Val Lys Thr Gln Cys Asp Glu
            100                 105                 110
Asn Gly Pro Cys Tyr Gly Phe Ser Gln Thr Cys Gly Leu Glu Cys Thr
        115                 120                 125
Lys Ile Leu Thr Asn Thr Gln Met Ala Ser Val Val Glu Glu Met Pro
    130                 135                 140
Arg Pro Ser Leu Ile Thr His His Ser Ile Gly Val Gln Leu Asp Ser
145                 150                 155                 160
Glu Arg Val Gly Phe Gly Glu Gly Ala Gly Pro Gly Leu Leu Pro Gln
                165                 170                 175
Ser His Asp Ser Thr Glu Asp Val Ser Gly Gln Ser Asp Ala Ser Asn
            180                 185                 190
Ser Gln Lys Asn Gln Ser Ser Ala Ser Ser Leu Arg Thr Gly Leu Glu
        195                 200                 205
Val Tyr Pro His Lys Ser Ser Glu Asp Gln Asn Asp Ser Thr Lys Glu
    210                 215                 220
Pro Arg Ala Ala Ser Ala Gln Gln Gln Gln Gln His His His His Val
225                 230                 235                 240
Pro Gln Asn Ala Phe Leu Ser Ile Gly Leu Gln Thr Ser Leu Ala Ile
                245                 250                 255
Ala Leu His Lys Leu Pro Glu Gly Phe Ile Thr Tyr Ala Thr Asn His
```

```
            260                 265                 270
Ala Ser Pro Thr Leu Gly Met Thr Val Phe Val Ala Leu Phe Ile His
        275                 280                 285
Asn Ile Ser Glu Gly Phe Ala Met Ala Leu Pro Leu Tyr Leu Ala Leu
    290                 295                 300
Asn Ser Arg Trp Lys Ala Met Phe Trp Ser Ser Leu Leu Gly Gly Ile
305                 310                 315                 320
Ser Gln Pro Ala Gly Ala Ala Leu Ala Ala Phe Trp Ile Trp Gly Ala
                325                 330                 335
Arg Asn Ala Gly His His Asp Glu Lys Thr Gly Ala Lys Pro Arg Arg
            340                 345                 350
```

<210> 23669
<211> 233
<212> PRT
<213> A.fumigatus

<400> 23669

```
Arg Gln Thr Val Ser Ala Arg Thr Val Ala Leu Pro Thr Pro Ser His
1               5                   10                  15
Gly Glu Asp Trp Arg Thr Ser Ile Gly Ser Val Gly Asn Leu Leu Pro
            20                  25                  30
Asn Met Glu Ala Lys Tyr Met Thr Met Pro Glu Asp Gly Ser Glu Pro
        35                  40                  45
Arg Glu Val Pro Val Gly Glu Val Gly Glu Leu Tyr Leu Arg Gly Pro
    50                  55                  60
Asn Val Phe Leu Gly Tyr His Asn Asn Pro Glu Ala Thr Ala Gln Cys
65                  70                  75                  80
Leu Ser Lys Asp Gly Trp Phe Gln Thr Gly Asp Val Gly Tyr Gln Asp
                85                  90                  95
Lys Asp Asn Asn Phe Tyr Ile Thr Asp Arg Val Lys Glu Leu Ile Lys
            100                 105                 110
Tyr Lys Gly Leu Gln Val Ala Pro Ala Glu Leu Glu Gly Ile Leu Val
        115                 120                 125
Asp Asn Glu Ala Val Asp Asp Val Ala Val Leu Gly Val Glu Ser Glu
    130                 135                 140
Ala His Gly Thr Glu Val Pro Leu Ala Tyr Ile Val Arg Ser Ala Lys
145                 150                 155                 160
Ser Lys Asn Ser Asn Ile Thr Ala Glu Glu Glu Ala Thr Arg Ile Val
                165                 170                 175
Gln Trp Leu Asp Gly Lys Val Ala Tyr His Lys Arg Leu Arg Gly Gly
            180                 185                 190
Val Arg Phe Val Asp Glu Ile Pro Lys Ser Pro Ser Gly Lys Ile Leu
        195                 200                 205
Arg Arg Leu Leu Lys Lys Gln Ala Lys Glu Asp Ala Ser Lys Ala Leu
    210                 215                 220
Gly Cys Leu Leu Pro Lys Leu Ser Cys
225                 230
```

<210> 23670
<211> 157
<212> PRT
<213> A.fumigatus

<400> 23670

```
Ala His Met Arg Gly Ser Phe Gly Pro Trp Ala Arg Arg Leu Leu Gln
```

```
1               5                   10                  15
Asp Pro His Tyr Pro Trp His Ala Leu Ser Arg Leu Asn Ala Asp Lys
            20                  25                  30
Phe Phe Ser Asp Ile Ile Glu Ser Val Leu Gly Ala Ile Phe Val Asp
        35                  40                  45
Ser Gly Gly Asn Leu Ala Pro Cys Glu Val Phe Val Glu Gln Ile Gly
    50                  55                  60
Leu Met Ala Tyr Leu Arg Arg Ile Leu Asp His Gly Ile Asp Val Arg
65                  70                  75                  80
His Pro Arg Ser Val Val Gln Gln Leu Ala Lys Thr Asn Ile Gln Phe
                85                  90                  95
Val Leu Gln Arg Val Pro Thr Glu Glu Gly Gly Ala Ser Tyr Gln Cys
            100                 105                 110
Ser Val Gln Met Glu Gln Ala Glu Leu Phe Val Val Thr Gly Cys Leu
        115                 120                 125
Thr Ala Glu Glu Ala Glu Val Thr Ala Ala Val Glu Ala Ile Lys Phe
    130                 135                 140
Leu Thr Arg Asp Glu Gly Ser Thr Pro Leu Asn Lys Ser
145                 150                 155
```

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<210> 23671
<211> 108
<212> PRT
<213> A.fumigatus

<400> 23671

```
Thr Pro Gly Trp Gly Gly Ser Pro Pro Pro Leu Leu Gly Gly Lys Arg
1               5                   10                  15
Cys Pro Phe Lys Asp Thr Arg Ala Ile Leu Thr Pro Ser His Thr Gly
            20                  25                  30
Lys Leu Ala Asn Val Glu Tyr Lys Pro Ser Asn Val Phe Asn Leu His
        35                  40                  45
Val Pro Lys Thr Cys Pro Gly Val Pro Ser Glu Leu Leu Asn Pro Lys
    50                  55                  60
Asn Ser Trp Thr Ala Ser Thr Ser Phe Thr Asp Glu Val Asn Lys Leu
65                  70                  75                  80
Ala Lys Leu Phe Asn Glu Asn Phe Ala Lys Tyr Ala Asp Glu Ala Thr
                85                  90                  95
Lys Glu Val Ile Ala Ala Gly Pro Val Pro Ser Gln
            100                 105
```

<210> 23672
<211> 165
<212> PRT
<213> A.fumigatus

<400> 23672

```
Phe Ser Asp Ala Ala Arg Leu Leu Asn Phe Tyr Gln Leu Trp Leu Asp
1               5                   10                  15
Asp Leu Phe Pro Arg Ala Lys Phe Ala Asp Gly Leu Ala Ile Ile Glu
            20                  25                  30
Arg Leu Gly His Ser Lys Arg Leu Gln Ala Met Arg Lys Glu Trp Ile
        35                  40                  45
Asp Glu Glu Lys Pro Lys Asp Ala Ser Glu Asn His Asn Asp Val Leu
    50                  55                  60
Lys Ala Ser Glu Ser Ser Gly Ser Gln Ser Asp Asp Pro Val Val Ala
```

65 70 75 80
Phe Gly Gly Leu Asn Met Ala Asp Thr Lys Arg Ser Lys Gly Asp Ile
85 90 95
Ala Gly Asp Tyr Met Phe Asp Ala Glu Arg Met Arg Val Glu Val Asn
100 105 110
Leu Asn Pro Ser Gly Gln Arg Lys Leu Asp Glu Gly Leu Phe Met Thr
115 120 125
Asp Asn Asp Asp Val Ala Gln Gln Pro Asp Asn Leu Gly Ala Pro Asp
130 135 140
Asp Asp Glu Leu Asp Ala Leu Leu Lys Glu Gln Glu Leu Leu Leu Met
145 150 155 160
Asn Asn Ala Ser Ala
165

<210> 23673
<211> 300
<212> PRT
<213> A.fumigatus

<400> 23673
Pro Leu Cys Leu Gln Asp Arg Val Ala Arg Arg Arg Thr Thr Thr Gly
1 5 10 15
Trp Leu Gly Ser Thr Arg Glu Ala Asn Ser Asn Ser Ser Asn Leu Arg
20 25 30
Leu Leu Ser Pro Arg Ser Arg Ile Asp Arg Pro Gln His Trp Pro Arg
35 40 45
Ser Cys Arg Thr Ile Arg Ile Pro Pro Gly Gln Pro His Ser Ala Ser
50 55 60
Ser Leu Pro Asn Leu Thr Ala Pro Ser Pro Ala His Thr Pro Ser Pro
65 70 75 80
Ala Pro Thr Gln Arg Pro Ser Tyr Pro Gly Ser Met Tyr Ala Gln Ser
85 90 95
Pro Ser Ser His Thr Gln Pro Ala Pro Ser Gly Ala Arg Asp Leu Gly
100 105 110
Ser Gln Asn Gln Ile Tyr Arg Pro Ala Val Gly Ser Pro Thr Ser Arg
115 120 125
His Asn Ser Ile Ala Tyr Gly Ser Arg Gln Gly Pro Pro Thr Pro Val
130 135 140
Gln Ser Gln Thr Ser Leu Leu Gly Leu Gly Ser Arg Pro Pro Ala Pro
145 150 155 160
Thr Val Ser Ala Pro Ala Pro Ser Asn His Met Ser Ala His Gln Thr
165 170 175
Tyr Gln Gln His Val Gln Thr Met Val Asn Gly Ala His Gln Gln Gln
180 185 190
Ser His Arg Gly Pro Leu Gly Leu Ser Thr Gly Tyr Gly His Asn Ser
195 200 205
Pro Gln Pro Gln Ala Gln Gly Ser Arg Ala Ala Gly Leu Pro Gly Pro
210 215 220
Pro Ser Gln Ala Ala Ala Met Gly Arg Ser Tyr Thr Pro Pro Ala Ile
225 230 235 240
Leu Gln Pro Asn Pro Ala Gly Tyr Gly Pro Ser Gly Pro Ser Ser Gly
245 250 255
Met His Pro Leu Gln Ala Arg Pro Ser Gly Pro Gly Gly Val Gly Glu
260 265 270
Pro Leu Ser Ser Gly His Asn Pro Gly His Gln Arg Gly Tyr Ser Gln
275 280 285

```
Gly Ser Ser Gly Met Pro Pro Gln His Gly Pro Arg
    290                 295                 300

<210> 23674
<211> 229
<212> PRT
<213> A.fumigatus

<400> 23674
Leu Thr Val Val His Leu Ile Ala Asn Ser Leu Val Ala Val Gly Asp
1               5                  10                  15
Glu Glu Gly Gly Ile Arg Leu Leu Asp Ser Ala Lys Asp Asp Lys Ser
            20                  25                  30
Gly Phe Ser Lys Ala Tyr Leu Thr Phe Arg Pro His Met Asn Ala Ile
        35                  40                  45
Met Asp Leu Glu Phe Ser Ser Asp Asp Met Leu Leu Ala Thr Ala Ser
    50                  55                  60
Gly Asp Gln Thr Ala Gln Val Ile Asp Met Ala Thr Gln Lys Pro Ile
65                  70                  75                  80
Tyr Cys Leu Ser Asn His Val Ser Ser Val Lys Arg Val Gln Phe Gln
                85                  90                  95
Pro Ala Ala Asn Asn Lys Val Leu Ala Thr Cys Ser Arg Asp Gly Asn
            100                 105                 110
Val Asn Ile Trp Asp Leu Arg Cys Lys Gly Phe Glu Arg Pro Ser Leu
        115                 120                 125
Gln Val Arg Cys Ser Leu Glu Ser Asp Ser Asp Asn Ser Leu Ser Leu
    130                 135                 140
Ala Tyr Lys Met Ile Tyr Pro Gln Val Leu Asn Thr Ile His Gly Ala
145                 150                 155                 160
His Ala Trp Thr Pro Gln Thr Ser Ile Asn Asp Lys Pro Gln Pro Gln
                165                 170                 175
Asn Gly Thr Phe Arg Pro Gln Arg Lys Pro Tyr Leu Thr Phe Val Ser
            180                 185                 190
Pro Arg Ser Arg Lys Tyr Leu Cys Asp Asn Leu Gln Ser Pro Cys Met
        195                 200                 205
Pro Glu Asn Lys Arg Ile Ser Tyr His Thr Gln Lys Pro Leu Arg Pro
    210                 215                 220
Pro Phe Pro Ser Arg
225

<210> 23675
<211> 188
<212> PRT
<213> A.fumigatus

<400> 23675
Thr Thr Ala Met Asp Ala Ser Ser Ser His Arg Arg Gln Arg Ser Thr
1               5                  10                  15
Ser Arg Gln Arg Asp Asp His Val Glu Ser Pro Pro Val Ser Val Lys
            20                  25                  30
Val Lys Met His Asn Asp Gly Arg His Val Thr Leu Arg Arg Leu Thr
        35                  40                  45
Glu Glu Glu Ala Ala Ala Ser Arg Glu Ala Arg Arg Arg Glu Arg Arg
    50                  55                  60
Asn Ser Arg Arg Arg Ala Gly Ser Ala Ser Ser Leu Ser Gly Asn Glu
65                  70                  75                  80
```

```
Gly Gly Tyr Asp Arg Trp Arg Arg Val Glu Glu Leu Glu Arg Gln Gln
                85                  90                  95
Gln Glu Gln Ile Gln Arg Glu Gln Gln Ala Ala Ala Ala Ala Ala Gly
            100                 105                 110
Ser Ala Ala Pro Leu Gly Ala Ala Pro Pro Pro Ser Phe Val Pro Pro
        115                 120                 125
Ser Ser His Phe Ser Pro Pro Pro Pro Pro Val Pro Ser Ser Leu Pro
    130                 135                 140
Tyr Gly Ser Ile Gly Ser Pro Gly Thr Phe Thr Gly Thr Asp Ala Ser
145                 150                 155                 160
Gly Asp Tyr Ala Asn Asn Arg Arg Arg Arg Arg Ala Glu Arg Ala Arg
                165                 170                 175
Ala Arg Gln Glu Arg Gln Gln Ser Val Asp Phe Thr
            180                 185
```

<210> 23676
<211> 342
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(310),(322),(328),(329),(330),(331)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23676

```
Pro Pro Pro Gly Met Arg Gly Cys Pro Lys His Pro Lys Xaa Val Lys
1               5                  10                  15
Pro Pro Pro Ser Gln Thr Ser Ser Gly Arg Ser Thr Pro Val Pro Val
            20                  25                  30
Lys Asp Arg Gln Lys Leu Gly Leu Glu Gly Gly Ser Arg Arg Pro Glu
        35                  40                  45
Thr Arg Glu Ala Met Val Glu Ser Ile Gly Val Leu Ala Arg Ile Pro
    50                  55                  60
Ser Phe Met Val Glu Leu Phe Val Asn Tyr Asp Cys Glu Val Asp Arg
65                  70                  75                  80
Ala Asp Leu Cys Glu Asp Met Val Gly Leu Leu Ser Arg Asn Ala Phe
                85                  90                  95
Pro Asp Ser Ala Thr Trp Ser Thr Thr Asn Val Pro Pro Leu Cys Leu
            100                 105                 110
Asp Ala Leu Leu Gly Tyr Val Gln Phe Ile Tyr Asp Arg Leu Glu Asp
        115                 120                 125
Glu Pro Arg Tyr Glu Gly Phe Pro Ser Lys Glu Leu Leu Lys Ser Gln
    130                 135                 140
Arg Lys Lys Lys Arg Ile Ile Ile Gln Gly Ala Gln Lys Phe Asn Glu
145                 150                 155                 160
Asn Pro Lys Ala Gly Ile Ala Tyr Leu Ala Ala His Gly Ile Ile Glu
                165                 170                 175
Asn Pro Asp Asp Pro Val Leu Val Ala Arg Phe Leu Lys Gly Thr Thr
            180                 185                 190
Arg Ile Ser Lys Lys Val Leu Gly Glu Phe Ile Ser Lys Lys Ser Asn
        195                 200                 205
Glu Ala Ile Leu Asp Ala Phe Val Asp Leu Phe Asp Phe Ser Gly Lys
    210                 215                 220
Thr Val Val Asp Ala Leu Arg Asp Leu Leu Gly Ala Phe Arg Leu Pro
225                 230                 235                 240
```

```
Gly Glu Ser Ala Leu Ile Glu Arg Ile Val Thr Thr Phe Ser Asp Lys
                245                 250                 255
Phe Val Gln Lys Ala His Pro Lys Gly Val Ala Asp Lys Asp Ala Leu
            260                 265                 270
Phe Val Leu Thr Tyr Gly Ile Ile Met Leu Asn Thr Asp Ala Tyr Asn
        275                 280                 285
Pro Asn Ile Arg Pro Gln Asn Arg Met Thr Cys Asn Glu Phe Ala Arg
    290                 295                 300
Asn Leu Arg Gly Val Xaa Ala Gly Arg Arg Ile Cys Ser Leu Asn Ser
305                 310                 315                 320
Phe Xaa Lys Ile Tyr Glu Leu Xaa Xaa Xaa Xaa Arg Asp Tyr Phe Tyr
                325                 330                 335
Pro Met Lys Pro Glu Glu
            340
```

<210> 23677
<211> 329
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23677

```
Leu Ala Lys Xaa Gly Val Val Cys Xaa Glu His Asp Asp Gly Leu Glu
1               5                   10                  15
Ile Asp Gly Ile Asp Arg Ser Thr Leu Arg Gln Pro Ala Gly Gly Val
            20                  25                  30
Phe Cys Tyr Asp Asp His Arg Val Ala Phe Ser Phe Ser Val Leu Ser
        35                  40                  45
Leu Ile Ala Leu Lys Pro Thr Leu Ile Leu Glu Lys Glu Cys Val Gly
    50                  55                  60
Lys Thr Trp Pro Gly Trp Trp Asp Thr Leu Arg Gln Lys Phe Ala Val
65                  70                  75                  80
Lys Leu Glu Gly Lys Glu Leu Lys Glu Ala Glu Ser Pro Val Leu Thr
                85                  90                  95
Arg Ala Glu Lys Ala Ser Ala Ser Val Phe Ile Ile Gly Met Arg Gly
            100                 105                 110
Ala Gly Lys Thr Thr Ser Gly His Trp Val Ala Ser Thr Leu Lys Arg
        115                 120                 125
Pro Phe Ile Asp Leu Asp Asp Glu Leu Glu Arg Ile Glu Gly Met Thr
    130                 135                 140
Ile Pro Asp Ile Ile Lys Gln Arg Gly Trp Gln Gly Phe Arg Asp Ala
145                 150                 155                 160
Glu Leu Asn Leu Leu Gln Arg Thr Met Lys Glu Arg Pro Thr Gly His
                165                 170                 175
Val Phe Ala Cys Gly Gly Gly Val Val Glu Ile Pro Glu Ala Arg Lys
            180                 185                 190
Leu Leu Ile Asp Trp His Lys Thr Lys Gly Asn Val Leu Leu Ile Met
        195                 200                 205
Arg Asp Ile Lys Gln Val Met Ala Phe Leu Asn Ile Asp Lys Thr Arg
    210                 215                 220
Pro Ala Tyr Val Glu Asp Met Leu Gly Val Trp Leu Arg Arg Lys Pro
225                 230                 235                 240
```

```
Trp Phe Gln Glu Cys Ser Asn Ile Gln Tyr Tyr Ser Gln His Ala Ser
                245                 250                 255
Ala Gly Leu Pro Arg Ala Ser Glu Asp Phe Ala Arg Phe Ile Lys Phe
            260                 265                 270
Val Thr Gly Leu Glu Asp Ser Leu Gly Thr Ile Lys Lys Lys Gln His
        275                 280                 285
Ser Phe Phe Val Ser Leu Thr Leu Pro Asp Val Arg Gly Ala Asp Gln
    290                 295                 300
Ile Leu Glu Gln Ala Cys Val Gly Ser Asp Val Phe Thr Thr Gly Leu
305                 310                 315                 320
Glu Gly Ser Ala Val Val Lys Ser Ser
                325
```

<210> 23678
<211> 98
<212> PRT
<213> A.fumigatus

<400> 23678

```
Val Ser Glu Asp Gln Gln Ser Leu Thr Ser Val Lys Arg Leu Leu Ile
1               5                   10                  15
Leu Asn Ser His Ser Ser His Gln Thr Ala Glu Phe Asp Ala Phe Tyr
            20                  25                  30
Lys Glu Asn Val Ile Ile Tyr Leu Tyr Ile Leu Pro Tyr Thr Ser His
        35                  40                  45
Leu Leu Gln Pro Leu Asp Val Gly Val Phe Gly Pro Leu Lys Arg Ala
    50                  55                  60
Tyr Arg Lys Leu Val Lys Gly Ile Met Val Val Gly Asn Asn Tyr Ile
65                  70                  75                  80
Asp Lys Glu Asp Phe Leu His Leu Tyr Pro Pro Ala His Glu Lys Val
                85                  90                  95
Phe Asn
```

<210> 23679
<211> 83
<212> PRT
<213> A.fumigatus

<400> 23679

```
Cys Arg Lys Arg Pro Ile Gly Val Leu Ser Asn Ile Gly Ile Ile Pro
1               5                   10                  15
Gln Ala Ser Cys Thr Phe Leu Ser Arg Ile Lys His Ser Leu Lys Ala
            20                  25                  30
Ala Ser Ser Asp Ile Asp Asn Leu Asn Tyr Ile Ile Gln Ala Cys Gln
        35                  40                  45
Val Ala Arg Asn Ala Asp Asp Phe Thr Val Tyr Ala Ile Leu Tyr Ala
    50                  55                  60
Lys Ser Ala Asp Arg Pro Cys Glu Asn Glu Leu Gly Ser Ser Ile Arg
65                  70                  75                  80
Pro Arg Thr
```

<210> 23680
<211> 69
<212> PRT

<213> A.fumigatus

<400> 23680
Thr Ser Ser Ala Val Pro Arg Val Ser Ile Ile Thr Ser Ala Phe Ala
1 5 10 15
Leu Phe Val Ser Leu Asp Gln Val Pro Ile Gln Val Leu Ser Asn Gly
20 25 30
Leu Ala Tyr Ile Arg Met Asn Asp Val Thr Asn Ser Leu Leu Thr Glu
35 40 45
His Phe Ser Tyr Thr Pro Leu Val Arg Phe Arg Pro Pro Arg Ser Ser
50 55 60
Cys Asp Gly Gln Leu
65

<210> 23681
<211> 148
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (144)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23681
Ala Met Pro Arg Ala Ser Thr Ala Pro Gly Ala Arg Leu Arg Cys Arg
1 5 10 15
Arg Ala Cys Asp Ser Cys Lys Arg Arg Lys Gln Lys Cys Asn Gly Glu
20 25 30
Gln Pro Cys Thr Ile Cys Ile Gln Arg Arg Lys Glu Ala Glu Cys Asn
35 40 45
Phe Ser Asp Lys Pro Ala Arg Leu Leu Lys Ala Asn Ala Pro Lys Glu
50 55 60
Thr Met Leu Leu Ser Glu His Met Val Pro Thr Pro Gln Arg Gln Thr
65 70 75 80
Thr Met Asp Arg Leu Leu Asn Ala Leu Glu Asp His Ser Ala Asp Leu
85 90 95
Glu Gln Gln Thr Thr Asp Asp Asn Asp Gly Thr Ala Pro Val Pro Lys
100 105 110
Val Pro Arg Leu Leu Pro Asp Gly Gln Gly Lys Phe Met Tyr Phe Gly
115 120 125
Arg Phe Cys Lys Leu Phe Phe Ser Ala Lys Val Leu Leu Arg Ile Xaa
130 135 140
Pro Phe Gly Gln
145

<210> 23682
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23682
Trp Lys Thr Leu Pro His Pro Thr Met Pro Gly Gln Val Gly Gly His
1 5 10 15
Glu Gly Val Gly Lys Val Val Lys Leu Gly Pro Gly Ala Glu Ser Ser
20 25 30

Gly Leu Lys Ile Gly Asp Arg Val Gly Val Lys Trp Ile Ser Ser Ala
35 40 45
Cys Gly Asn Cys Arg Met Cys His Pro Ile Phe Gln Ser Phe His Val
50 55 60
Val Ile Ser Ala
65

<210> 23683
<211> 261
<212> PRT
<213> A.fumigatus

<400> 23683
Gln Thr Ser Phe Ala Glu Pro Cys Gln Ala Gly Ser Asp Gly Leu Cys
1 5 10 15
Phe Lys Gln Lys Ile Ser Gly Tyr Tyr Thr Pro Gly Thr Phe Gln Gln
20 25 30
Tyr Thr Val Gly Pro Ala Asn Tyr Val Thr Pro Ile Pro Asp Gly Leu
35 40 45
Ala Ser Asp Glu Ala Ala Pro Met Leu Cys Ala Gly Val Thr Val Tyr
50 55 60
Ala Ala Leu Lys Arg Ser Arg Val Arg Pro Gly Gln Trp Val Val Ile
65 70 75 80
Ser Gly Ala Gly Gly Gly Leu Gly His Leu Ala Val Gln Leu Ala Ser
85 90 95
Arg Gly Met Gly Leu Arg Val Val Gly Ile Asp His Gly Ser Lys Glu
100 105 110
Glu Leu Val Lys Ala Ser Gly Ala Asp His Phe Val Asp Ile Thr Lys
115 120 125
Phe Pro Ser Asp Asp Asn Gly Ala Ala Ile Ala Ala His Val Gln Ser
130 135 140
Leu Thr Asp Gly Leu Gly Ala His Ala Ala Leu Val Cys Thr Ala Ser
145 150 155 160
Asn Ala Ala Tyr Ala Gln Ala Leu Leu Met Leu Arg Phe Asn Gly Thr
165 170 175
Leu Val Cys Val Gly Ile Pro Glu His Thr Pro Val Pro Ile Ala Thr
180 185 190
Ala Thr Pro Gly Ile Met Val Ala Lys His Tyr Thr Ile Thr Gly Ser
195 200 205
Ala Val Gly Asn Arg Thr Glu Ala Ile Glu Thr Leu Asp Leu Ala Ala
210 215 220
Arg Gly Val Leu Lys Ala His Phe Arg Thr Glu Lys Leu Glu Asn Leu
225 230 235 240
Thr Ala Val Phe Gln Glu Met Gly Glu Val Lys Leu Gln Gly Arg Val
245 250 255
Phe Leu Asp Leu Ser
260

<210> 23684
<211> 398
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23684

```
Arg Pro Ala Arg Ile Phe Asp Val Cys Val Arg Xaa Pro Asn Ala Gly
1               5                  10                  15
Thr Ala Val His Gly Ser Leu Asp Tyr Met Ile Val Gln Ser Asp Thr
            20                  25                  30
His Gly Gln Leu Leu Ile Ala Gln Ser Arg Leu Glu Tyr Leu Glu His
        35                  40                  45
Met Leu Lys Glu Asp Leu Thr Val Ile Ile Pro Ser Ile Arg Gly Ser
    50                  55                  60
Glu Leu Ala Asp Gln Thr Lys Tyr Arg Pro Leu Phe Lys Ser Ala Asp
65                  70                  75                  80
Ala Glu Pro Gln Pro Ile Ile Ala Ala Asp Phe Val Thr Ala Asp Ser
                85                  90                  95
Gly Ser Gly Leu Val His Cys Ala Pro Gly His Gly Met Asp Asp Tyr
            100                 105                 110
Glu Ala Cys Val Pro Arg Gly Ile Pro Ala Phe Ala Pro Val Asp Asp
        115                 120                 125
His Gly Arg Phe Thr Asp Lys Ala Met Pro Ser Asp Pro Thr Arg Leu
    130                 135                 140
Ser Gly Lys Ser Val Leu Gly Glu Gly Thr Val Ala Val Leu Glu Tyr
145                 150                 155                 160
Ile Glu Ser Gln Gly Tyr Leu Leu Ala Lys His Glu Tyr Glu His Lys
                165                 170                 175
Tyr Pro Tyr Asp Trp Arg Ser Lys Leu Pro Ile Ile Ile Arg Ala Thr
            180                 185                 190
Glu Gln Trp Phe Ala Asp Val Ala Asp Ile Arg Asp Ser Ala Val Lys
        195                 200                 205
Ala Leu Glu Asp Val Arg Phe Val Pro Ser Ser Gly Lys Gln Arg Leu
    210                 215                 220
Glu Asn Phe Val Gln Asn Arg Ser Glu Trp Cys Ile Ser Arg Gln Arg
225                 230                 235                 240
Ala Trp Gly Val Pro Ile Pro Ala Leu Tyr Asn Arg Ala Thr Gly Asp
                245                 250                 255
Ala Val Leu Thr Arg Asp Ser Val Ser His Ile Met Ser Val Ile Asp
            260                 265                 270
Glu Arg Gly Ile Asp Ala Trp Trp Thr Asp Asp Met Asn Asp Pro Ala
        275                 280                 285
Trp Ile Pro Pro Thr Leu Arg Glu Glu Ser Ala Ser Gly Tyr Arg Arg
    290                 295                 300
Gly Thr Asp Thr Met Asp Val Trp Phe Asp Ser Gly Thr Ser Trp Thr
305                 310                 315                 320
Glu Ile Asp Thr Pro Pro Arg Asp Gly Cys Pro Ala Asp Val Tyr Leu
                325                 330                 335
Glu Gly Thr Asp Gln His Arg Gly Trp Phe Gln Ser Gly Leu Leu Thr
            340                 345                 350
Tyr Ile Ser His Gln Leu Ala Ser Gly Gln Thr Ala Thr Pro Arg Ala
        355                 360                 365
Pro Phe Lys Asn Leu Val Thr His Gly Phe Thr Leu Asp Glu Glu Ala
    370                 375                 380
Arg Lys Met Ser Ile Leu Thr Ala Ala Trp Arg Tyr Glu Ser
385                 390                 395
```

<210> 23685
<211> 170

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (67)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23685
Gly Asp Pro Val Val Ala Pro Ile Leu Lys His Pro Asp Phe Tyr His
1 5 10 15
Ile Trp Ala Ser Thr Arg Asp Pro Ala Arg Pro Gly Ala Pro Glu Phe
20 25 30
Ile Ala Arg Gly Val Glu Ile Pro Arg Ala Asp Val Asp Glu Gly Arg
35 40 45
Glu Asp Leu Thr Ala Ala Phe Asp Gly Ala His Ile Ile Tyr Ala Leu
50 55 60
Thr Asp Xaa Trp Gln Lys Gln Ser Ala Thr Ala Glu Val Glu Gln Gly
65 70 75 80
Lys Ala Ile Ala Asp Ala Ala Ala Ala Thr Thr Thr Leu Gln His Phe
85 90 95
Val Trp Ser Ala Leu Pro Asp Pro Val Ala Leu Ser Gly Arg Gln Phe
100 105 110
Leu Asn Val His His Trp Lys Gly Lys Ser Leu Val Thr Glu Tyr Ile
115 120 125
Gln Lys Glu Lys Pro Glu Leu Trp Ala Lys Thr Thr Thr Ile Leu Phe
130 135 140
Pro Asn Tyr Phe Glu Asn Cys Leu Thr Ser Pro Gly Arg Tyr Leu Pro
145 150 155 160
Val Lys Val Arg Gln Pro Ser Ser Leu Ala
165 170

<210> 23686
<211> 125
<212> PRT
<213> A.fumigatus

<400> 23686
Asp Ser Leu Pro Ala Trp His Lys Arg Arg Trp Asn Gly Gly Val Leu
1 5 10 15
Thr Leu Glu Ile Ser Thr Gln Asp Glu Ala Gly Thr Tyr Thr Leu Lys
20 25 30
Phe Pro His Ser Pro Asn Thr Val Met Pro Asn Val Ala Ile Ala Asp
35 40 45
Thr Gly Lys Leu Val His Leu Val Val Glu Ala Gly Ser Ala Tyr Phe
50 55 60
Thr Lys Val Ile Ala Phe Trp Ala Gln Ala Leu Ser Glu Ala Glu Lys
65 70 75 80
Leu Ala Glu Leu Gly Asn Cys Met Val Thr Pro Asn His Thr Val His
85 90 95
Ile Ser Lys Phe Asp Val Arg Pro Gln Cys Pro Asn Ser Leu Pro Pro
100 105 110
Val Gln Pro Leu Phe Ala Thr Asp Trp Lys Ile Arg Val
115 120 125

<210> 23687

<211> 240
<212> PRT
<213> A.fumigatus

<400> 23687
Leu Ala Arg Phe Leu Pro Ala Pro Val Cys Glu Asp Gln Gln Gln Gln
1 5 10 15
Glu Gln Ala Met Ala Ala Ala Gln Gln Ala Ile Val Gln Asn Gln Leu
20 25 30
Glu Arg Ser Arg Ser Gln Arg Gln Gln Gln Ser Arg Gly Pro Glu Pro
35 40 45
Lys Gln Pro Thr Gln Met Gly His Ser Gln His Ala Asn Asp His Thr
50 55 60
Thr Ala Leu Gln Ser Pro Gln Lys Ala Gln Pro Val Pro Ala Ala Arg
65 70 75 80
Pro Arg Gln Arg Ala Arg Gln Ser Asn Ala Val Asp Val Arg Ala Arg
85 90 95
Leu Leu Ala Ile Cys Thr Pro Gly Asp Pro Thr Lys Leu Tyr Tyr Asn
100 105 110
Leu Asn Lys Ile Gly Gln Gly Ala Ser Gly Gly Val Tyr Thr Ala Tyr
115 120 125
Gln His Gly Thr Asn Asn Cys Val Ala Ile Lys Gln Met Asn Leu Asp
130 135 140
Leu Gln Pro Lys Lys Glu Leu Ile Ile Asn Glu Ile Leu Val Met Lys
145 150 155 160
Asp Ser Lys His Lys Asn Ile Val Asn Phe Leu Asp Ser Tyr Leu His
165 170 175
Gly Leu Asp Leu Trp Val Val Met Glu Tyr Met Glu Gly Gly Asn Leu
180 185 190
Thr Thr Phe Ser Pro Ser Phe Phe Leu Pro Met Pro Leu Pro Leu Leu
195 200 205
Pro Leu Arg Lys Val Ser Pro Pro Ser Val Asn Ser Pro Ser Ala Ala
210 215 220
Thr Ser Leu Val Phe Ser Leu Thr Ser Ser Ser Ser Leu Gly Ile Arg
225 230 235 240

<210> 23688
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23688
Phe Trp Thr Leu His Thr Leu Thr Arg Ala Tyr Ser Lys Leu Ile Ser
1 5 10 15
Pro Ala Leu Tyr Ala Ile Ser Glu Ile Ser Thr His Thr Trp Lys Ser
20 25 30
Ala Pro Phe Ala Arg Pro Trp Thr Arg Cys Pro His Lys Thr Gly Ile
35 40 45
Tyr Ala Glu His Trp Leu Leu Pro Thr Arg Arg Met Gln Trp
50 55 60

<210> 23689
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23689
Gln Pro Ser Ser Ile Lys Ile Ile Asn Leu Thr Asn Gln Ser Arg Cys
1 5 10 15
Leu Ala Gln Thr Thr Thr Phe Cys Phe Thr Asn Ser Glu Asp Phe Pro
20 25 30
Leu Cys Ser His Ile Ala Lys Leu Met Thr Gly Glu Thr Lys Phe Pro
35 40 45
Leu Leu Ser His Met Pro Ser Val Ser Asp Thr Asn
50 55 60

<210> 23690
<211> 94
<212> PRT
<213> A.fumigatus

<400> 23690
Asn Thr Ile Leu Lys Ser Leu Ile Ala Ala Thr Ala Pro Glu Ser Pro
1 5 10 15
Ser Thr Ser Pro Pro Tyr Arg Phe Thr Val Asn Ser Thr Ile Val Gln
20 25 30
Gln Gly Leu Ile Asp Lys Ser Ser Ala Ala Asp Gly Ala Val Ser Asn
35 40 45
Ala Gly Lys Arg Gly Met His Ser Ala Ser Gly Ala Phe Trp Asp Val
50 55 60
Asn Arg Asp Gly Met Trp Thr Phe Lys Tyr Pro Gly Ala Glu Glu Arg
65 70 75 80
Gly Leu Asp Val Ile Val Ser Val Ala Trp Phe Ala Leu Gly
85 90

<210> 23691
<211> 83
<212> PRT
<213> A.fumigatus

<400> 23691
Ala Leu Gly Ser Arg Gly His Val Tyr Phe Cys Ala Met Phe Lys Asp
1 5 10 15
Pro Glu Leu Thr Arg Ile Val Pro Ile Cys Thr Phe Lys Ala His Lys
20 25 30
Asp Tyr Leu Thr Arg Val Phe Leu Ser Pro Asp Val Arg His Leu Ala
35 40 45
Thr Cys Ser Ala Asp His Thr Leu Lys Val Trp Asn Leu Asp Pro Asp
50 55 60
Phe Pro Pro Gly Gln Asp Gly Ser Asp Asn Ser Ser Gln Gly Gln Ser
65 70 75 80
His Trp Gln

<210> 23692
<211> 169
<212> PRT
<213> A.fumigatus

<400> 23692
Arg Ser Gly Ile Ser Ile Leu Ile Ser Pro Pro Ala Lys Met Ala Ala
1 5 10 15

```
Ile Thr Ala Ala Lys Ala Arg Ala Thr Gly Asn Glu Ser Pro Val Pro
            20                  25                  30
Glu Ala Lys Glu Pro Val Ala Thr Asp Pro Val Ala Ser Pro Thr Ser
        35                  40                  45
Pro Lys Val Gln Asp Leu His Val Gly Ala Asp Leu Gly Arg Ser Gly
    50                  55                  60
Glu Leu Asn Pro Ile Thr Tyr Ile Arg Gly Asn Ala Pro Ala Asn Pro
65                  70                  75                  80
Glu Pro Gln Gln Thr Phe Pro Val Gln Pro Asp Gly Pro Pro Met Asp
                85                  90                  95
Met Ala Thr Gly Thr Pro Phe Leu Glu Thr Thr Leu Ala Asn His Gln
            100                 105                 110
Arg Trp Val Trp Asp Cys Ala Phe Ser Ala Asp Ser Ala Tyr Leu Val
        115                 120                 125
Thr Val Ser Ser Asp His Tyr Ala Arg Leu Trp Glu Leu Ala Ser Gly
    130                 135                 140
Gln Ile Ile Arg Gln Tyr Ser Gly His His Arg Gly Ala Val Cys Val
145                 150                 155                 160
Ala Leu Asn Asp Tyr Ser Glu Pro Arg
                165
```

<210> 23693
<211> 221
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (201)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23693

```
Ala Ser Ser Tyr Leu Cys Ile Tyr Gln Asn Lys Arg Ile Gly Ile Lys
1               5                   10                  15
Val Asp Ala Leu Leu Leu Gly Pro Ile Pro Pro Pro Ala Ile Gln Cys
            20                  25                  30
Ser Phe Asp Cys Leu Asn Asn Ile Met Gly His Ser Val Ile Ser Pro
        35                  40                  45
Ala Ile Phe Tyr Trp Gly Thr Pro Val Val Leu Ala Thr Thr Val Asn
    50                  55                  60
Lys Asp Gly Thr Pro Asn Ile Ala Pro Ile Ser Ser Ala Trp Trp Leu
65                  70                  75                  80
Gly Asn Arg Ala Val Leu Gly Leu Gly Arg Ser Ser Gln Thr Ile Ala
                85                  90                  95
Asn Ile Ile Arg Thr Arg Gln Cys Val Leu Asn Leu Pro Gly Asp Asp
            100                 105                 110
Met Val Gln Cys Val Asn Ala Leu Ala Arg Thr Thr Gly Ala Lys Asp
        115                 120                 125
Val Pro Ala Ser Lys Thr Gln Arg Gly Tyr Arg Asp Glu Lys Asp Lys
    130                 135                 140
Phe Gly Ile Ala Gly Leu Thr Pro Glu Ser Ser His Leu Val Gln Pro
145                 150                 155                 160
Pro Arg Ile Gln Glu Cys Pro Val Gln Met Glu Ala Glu Val Ala Gly
                165                 170                 175
Thr His Glu Leu Phe Thr Asp Gly Pro Ile Glu Leu Gln Gly Cys Val
            180                 185                 190
```

```
Met Ala Ile Glu Val His Ile Leu Xaa Asn Tyr Val Thr Glu Lys Leu
        195                 200                 205
Arg Leu Ala Ala Tyr Ala Asn Thr Ile Asp Pro Asp Lys
    210                 215                 220
```

<210> 23694
<211> 390
<212> PRT
<213> A.fumigatus

<400> 23694

```
Gly Met Asp Glu Arg Arg Ala Lys Phe Arg Gln Asp Leu Ile Ser Glu
1               5                  10                  15
Val Lys Pro Trp Ser Met Asn Lys Arg Gly Pro Arg Arg Trp Gln Arg
            20                  25                  30
His Leu His His Phe Arg His Asp Glu Gly Pro Glu Ser Glu Lys Pro
        35                  40                  45
Asn Gly Leu Pro Ser Ile Val Val Asn Asp Asp Ala Asn Val Glu Asn
    50                  55                  60
Gly Pro Arg His Thr Pro Gly Arg Thr Asp Gln Glu Glu Thr Glu Ser
65                  70                  75                  80
Val Tyr Arg Ser Ala Asp Gly Ser Arg Ala Gly Ser Ile Arg Ser Ala
                85                  90                  95
His His Tyr Arg Ser Ser Ser Pro Leu Lys Arg Thr Lys Phe Gly Leu
            100                 105                 110
Ala Val Pro Met Met Asn Pro Ser Thr Glu Asp Leu Ala Ser Val Lys
        115                 120                 125
Ser Gly Asn Ser Met Leu Ser Leu Gln Val Pro Glu Thr Gly Ser Arg
    130                 135                 140
Ala Pro Ser Glu Tyr Asp Glu Asp Asp Glu Asp Glu Lys His Gln Asp
145                 150                 155                 160
Ile Gln Glu Val Trp Phe Pro Gly Gly His Ala Asp Ile Gly Gly Gly
                165                 170                 175
Trp Lys Leu Gly Glu Gly Glu Glu Trp Pro Leu Ser His Ala Pro Leu
            180                 185                 190
Val Trp Met Val His Glu Ala Glu Arg Ala Gly Leu Gln Phe Asp Pro
        195                 200                 205
Arg Lys Leu Lys Lys Phe Glu Cys Cys Glu Glu Tyr Asp Gly Glu Ile
    210                 215                 220
Ser Pro Leu His Glu His Leu His Trp Glu Gln Asn Met Asp Met Cys
225                 230                 235                 240
Gln Asp Pro Ser His Gly Glu Asp Asp Asp Glu His Met Arg Phe Ala
                245                 250                 255
Arg Lys Glu Asp Glu Gln Asn Ala Ser Lys Ser Lys Arg Arg Phe Leu
            260                 265                 270
Glu Ala Leu Tyr Glu Ser Ser Thr Lys Gly Ile Leu His Asp Cys Leu
        275                 280                 285
Ala Tyr Gly Asn Gly Leu Pro Phe Thr Ser Val Leu Ser Trp Arg Ile
    290                 295                 300
Met Glu Tyr Leu Pro Phe Arg Arg Met Asp Leu Gln Asp Asp Gly Ser
305                 310                 315                 320
Trp Lys Pro Ile Arg Trp Pro Leu Pro Leu Trp Arg Gly Ala Arg Tyr
                325                 330                 335
Ser Gln Gly Cys Ser Asn Pro Cys Leu Gly His Ser Pro His Glu Gly
            340                 345                 350
Gln Ser Arg Val Pro Thr Gly Gln Pro Asn His Trp Arg Arg Arg Thr
```

```
        355                 360                 365
Trp Cys Gln Lys Ser Ser Ser Arg Val Arg His Val Leu His His Arg
    370                 375                 380
Ala Glu Arg Ser Thr Ser
385                 390

<210> 23695
<211> 376
<212> PRT
<213> A.fumigatus

<400> 23695
His Leu Arg Arg Val Ser Ser Asn Leu Gly Pro Gln Gln His His Gly
1               5                   10                  15
Thr Pro Pro Pro Pro Pro Gln Asn Gly Phe Ala Tyr Ile Pro Asn Pro
            20                  25                  30
Ser Met Tyr His Pro Asn Ala Asn Pro Asn Ile Ala Gln Gln Pro Arg
        35                  40                  45
Pro Pro Gln Phe Ala His Tyr Gly Pro Gln Gln Pro Leu Pro Pro His
    50                  55                  60
Ala Ile Pro Pro His Pro Met Pro Gln Pro Val Pro Pro His His Gln
65                  70                  75                  80
Ala Pro Gln His Leu Pro Gln His Pro His Pro Leu Ala Gln Gln Thr
                85                  90                  95
Pro Ala Met Gly Leu Ser Gln Pro Pro His Ala Ser Ile Pro Gln Val
            100                 105                 110
Ala Gln Pro Phe Leu Pro Glu Gln Gly Arg Asn Ser Ile Pro Pro Ala
        115                 120                 125
Phe Pro Thr Glu Gln Ser Gln Pro Pro Arg Pro Val Ser Leu Pro Asp
    130                 135                 140
Val Ser Ser Ala Asp Gln Met Val Gly Pro Leu Lys Val Glu Thr Ser
145                 150                 155                 160
Pro Ser Pro Pro His Gln Arg Ser Leu Ser Ser Lys Ser Arg Ser Ile
                165                 170                 175
Phe Thr Pro Ile Asp Asp Arg Gly Ser Val Leu Ala Arg His Phe Gly
            180                 185                 190
Leu Gly Pro Pro Thr Cys Glu Ser Pro Arg Thr Glu Ser Ala Asp Val
        195                 200                 205
Lys Ala Glu Ala Lys Gln Asn Asp Ser Lys Glu Ile Lys Pro Pro Ala
    210                 215                 220
Gln Pro Val Ala Pro Pro Pro Pro Pro Arg Thr Thr Ala Asp Ala Ala
225                 230                 235                 240
Arg Ser Gln Ser Ala Pro Asp Ile Lys Pro Pro Pro Arg Thr Asn Ser
                245                 250                 255
Gly Gln Leu Pro Ser Lys Arg Pro Gln Leu Lys Val Gln Ile Pro Ser
            260                 265                 270
Glu Asn Ser Asp Arg Gly Ser Ala Thr Ala Asp Ser Ser Ser Ser Thr
        275                 280                 285
Gly Asn Gln Thr Val Thr Pro Ala Lys Ala Asn Pro Asp Thr Asn His
    290                 295                 300
Ser Gly Val Val Leu Pro Pro Pro Ser Pro Ser Ala Gly Ala Ile Leu
305                 310                 315                 320
Ser Ala Gly Ala Thr Gly Pro Pro Asn Pro Phe Ala Arg Pro Pro Pro
                325                 330                 335
Pro Gly Thr Ala Ser Gln Asn Ser Asn Ala Tyr Asn Ser Asn Asn Asn
            340                 345                 350
```

```
Ile Glu Thr Pro Ile Ser Ala Leu Pro Ser Arg Phe Val Ser Ser Pro
        355                 360                 365
Arg Gly Trp Lys Gly Pro Leu Tyr
    370                 375
```

<210> 23696
<211> 181
<212> PRT
<213> A.fumigatus

<400> 23696

```
Ser Ser Ser Thr Arg Glu Phe Glu Phe Gly Pro Ala Ala Thr Ser Trp
1               5                   10                  15
Asn Ser Thr Ala Pro Ala Thr Lys Trp Val Arg Ile Tyr Ser Lys Ser
            20                  25                  30
Leu Asp Val Ser Ser Gln Cys Gln Pro Gln His Ser Pro Thr Thr Ala
        35                  40                  45
Pro Thr Pro Ile Arg Thr Leu Trp Thr Ala Thr Ala Thr Thr Ala Ala
    50                  55                  60
Arg Asn Thr Ser Thr Ser His Ala Ser Thr Ser Pro Ala Ala Pro Ser
65                  70                  75                  80
Ser Pro Ala Ala Ser Pro Pro Thr Ser Thr Ser Ala Cys Ser Ala Asp
                85                  90                  95
Thr Cys Asp Gly Thr Leu Ala Thr Ala Ser Cys Val Asn Thr Thr Gly
            100                 105                 110
Arg Ala Ala Phe Leu Ala Arg Thr Arg Glu Lys Leu Asp Pro Ser Cys
        115                 120                 125
Val Ser Asp Arg Ala Val Ala Thr Thr Ser Thr Gly Ile Pro Thr Arg
    130                 135                 140
Cys Phe Leu Gly Arg Ser Asp Gly Trp Ser Ile Lys Gly Gly Asn Lys
145                 150                 155                 160
Ser Leu Ser Ser Ala Pro Ala Ile Ala Val Ile Gln Ile Ala Gln Tyr
                165                 170                 175
Leu His Ala Asp Arg
            180
```

<210> 23697
<211> 165
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23697

```
Gly Phe Phe Ile Gly Xaa Thr Val Arg Pro Thr Thr Phe Thr His Leu
1               5                   10                  15
Leu Gly His Leu Ile Ser Gly Arg Tyr Pro Val Gln Met Lys Ala Ala
            20                  25                  30
Tyr Pro Leu Leu Ser Asp Glu Ala His Ser Val Ile Val Asp Leu Pro
        35                  40                  45
Asn Tyr Arg Trp Asn His Pro Ala Lys Tyr Trp Tyr Lys Arg Glu Val
    50                  55                  60
Ser Lys Asp Gly Arg Val Arg Lys Val Pro His Arg Asp Leu Gly Ser
```

```
65                  70                  75                  80
Glu Pro Ser Leu Gly Ala Ser Met Asp Thr His Asn Gly Val Met Ala
                85                  90                  95
Arg Lys Thr Glu Glu Leu Asn Gln Gly Met Gln Lys Thr Pro Glu Thr
            100                 105                 110
Thr Val Phe Pro Gly Glu Tyr Gly Asp Leu Leu Ser Lys Thr Leu Ser
        115                 120                 125
Ser Leu Ser Ser Met Leu Gln Leu Thr Glu Pro Val Asp Pro Glu Glu
    130                 135                 140
Leu Leu Ser Ser Tyr Gly Leu Asp Ser Leu Ser Arg Ile Gln Pro Arg
145                 150                 155                 160
Leu Trp Leu Asn Thr
                165
```

<210> 23698
<211> 245
<212> PRT
<213> A.fumigatus

<400> 23698

```
Phe His Ile Gly Val Asp Ser Lys Ser Gly Gln Tyr Thr Ala Ala Val
1               5                   10                  15
Lys Gly Pro Tyr Gly Glu Trp Val Met Thr Asn Asp Ser Arg Val Ile
            20                  25                  30
Phe Thr Gln Thr Leu Glu Lys Ser Met Ser Ser Pro Gly Ala Gly Lys
        35                  40                  45
Glu Asn Val Tyr Ile Leu Ala Tyr Arg Arg Val Glu Thr Gln Ser Asn
    50                  55                  60
Ser Ala Glu Ser Asn Thr Gly Leu Ser Ala Ala Val Thr Ser Ser Asn
65                  70                  75                  80
Pro Lys Ala Ser Ile Thr Gly Gln Ser Val Thr Ser Ser Gly His Ser
                85                  90                  95
Asn Ala Gly Ser Ser Asn Glu Pro Gly Ser Arg Lys Gly Ser Leu Lys
            100                 105                 110
Gly Gly Val Gln Met Lys Gly Ile Ile Glu Leu Glu Gly Arg Leu Ile
        115                 120                 125
Gln Trp Thr Ile Asn Gln Gln Leu Leu Leu Asp Pro Gly Lys Gly Ala
    130                 135                 140
Leu Val Ala Leu Gly Pro Arg Ala Arg Thr Gln Arg Ala Thr Leu Gln
145                 150                 155                 160
Leu Thr Leu Thr Ser Glu Asp Thr Gly Glu Ile Leu Gly Gly Gln Val
                165                 170                 175
Thr Thr Ser Leu Lys Pro Trp Gly Val Gln Lys Pro Lys Arg Gly Pro
            180                 185                 190
Ser Lys Thr Ala Asp Thr Lys Asp Ser Ser Ala Gly Thr Lys Lys Ala
        195                 200                 205
Ala Asp Thr Val Ser Gly Lys Ala Ala Lys Pro Lys Gly Val Thr Lys
    210                 215                 220
Lys Pro Ser Ser Pro Pro Lys Gly Thr Arg Gln Ser Ala Arg Leu Arg
225                 230                 235                 240
Ser Lys Ala Lys Gln
                245
```

<210> 23699
<211> 109
<212> PRT

<213> A.fumigatus

<400> 23699
Ala Arg Ile Ile Leu Glu Thr Asp Gly Glu Gly Gln Arg Glu Leu Gly
1 5 10 15
Gly Gly Val Asp Val Ala Val Glu His Val Gly Asn Ala Val Ala Ala
20 25 30
Phe Val Ala Ala Glu Pro Gly Leu Glu Glu Gly Leu Gly Phe Val Gly
35 40 45
Pro Gly His Gly Asp Gly Arg Ala Ala Leu Asp Asp Tyr His Cys Val
50 55 60
Gly Val Cys Val Glu His Ala Ala Asp His Leu Val Ala Ala Trp Gly
65 70 75 80
Glu Val His Val Ile Ala Val Val Ala Leu Cys Phe Pro Phe Ala Gly
85 90 95
Glu Thr Gly Glu Asp Asn Asp Leu Gly Gly Leu Gly Gly
100 105

<210> 23700
<211> 169
<212> PRT
<213> A.fumigatus

<400> 23700
Ser Tyr Glu Ser Cys Ser Ser Thr Pro Gly Glu Asp Arg Ala Asp Leu
1 5 10 15
Gln Gly Arg Pro Ala Ile Arg His Arg Ser Asn Leu Arg Pro Arg His
20 25 30
Ala Arg Arg Arg His Leu Arg Ala Arg Arg Leu Pro Leu Arg Arg Arg
35 40 45
Pro Pro Arg Gln Pro Gly Gly Thr His Leu Gln Ser Cys Arg Ala Ser
50 55 60
Leu Pro Gly Leu Pro Ser Arg Tyr Leu Arg Arg Ser His Gln Arg Met
65 70 75 80
Gly Asn Arg Gly Leu Arg Pro Arg Ser His Gly Pro Pro Pro Arg Gln
85 90 95
Arg Arg Asp Asp Gln Pro Arg Ala Arg Arg Lys Pro Arg His Ser Gly
100 105 110
Ser His Pro Glu Arg His Ala Arg His His Ala Leu Gly Pro Gln Ser
115 120 125
Gln Gly Pro Pro Pro Gly Leu Val Arg Arg Gln Arg Met Arg Gln Arg
130 135 140
His Cys Arg Arg Ala Leu Arg Gln Arg Gln Pro Arg Arg Gln Ala Pro
145 150 155 160
Ala Val Leu Pro Arg Pro Ser Pro Gly
165

<210> 23701
<211> 245
<212> PRT
<213> A.fumigatus

<400> 23701
Pro Met Arg Ala Val Pro Pro Pro Leu Val Lys Thr Gly Gln Thr Tyr
1 5 10 15
Lys Val Val Leu Gln Phe Gly Thr Ala Pro Thr Ser Asp Leu Asp Met

```
            20                  25                  30
Arg Gly Val Val Ile Phe Gly Pro Gly Gly Phe Arg Phe Gly Ala Ala
        35                  40                  45
Arg Arg Val Ser Gln Glu Glu Leu Ile Ser Lys Ala Ala Glu Leu Ala
    50                  55                  60
Ser Gln Ala Ser Gln Val Val Ile Phe Ala Gly Leu Thr Ser Glu Trp
65                  70                  75                  80
Glu Thr Glu Gly Tyr Asp Arg Asp His Met Asp Leu Pro Pro Gly Ser
                85                  90                  95
Asp Glu Met Ile Ser Arg Val Leu Asp Ala Asn Pro Asp Thr Val Val
            100                 105                 110
Val Ile Gln Ser Gly Thr Pro Val Thr Met Pro Trp Ala His Lys Ala
        115                 120                 125
Lys Ala Leu Leu Gln Ala Trp Phe Gly Gly Asn Glu Cys Gly Asn Gly
    130                 135                 140
Ile Ala Asp Val Leu Tyr Gly Asn Val Asn Pro Ala Ala Lys Leu Pro
145                 150                 155                 160
Leu Ser Phe Pro Val Arg Leu Gln Asp Asn Pro Cys Leu Pro Glu Leu
                165                 170                 175
Pro Leu Arg Ala Arg Pro Arg Pro Leu Arg Arg Gly His Ile Arg Arg
            180                 185                 190
Ile Pro Ile Leu Arg Glu Gly Arg Pro Gly Pro Ala Leu Pro Leu Trp
        195                 200                 205
Pro Arg Pro Leu Leu His Asp Leu Leu Pro Leu Gly Ser Val Pro Arg
    210                 215                 220
His Asp Pro Arg Glu Thr Pro Ala Gly Arg Arg Arg Ala Tyr His Gly
225                 230                 235                 240
Tyr Arg Leu Cys Asp
                245
```

Sequence Listing

<210> 23702
<211> 222
<212> PRT
<213> A.fumigatus

<400> 23702

```
Ser Ser Arg Ala Ala Arg Pro Ser Pro Cys Pro Gly Pro Thr Lys Pro
1               5                   10                  15
Arg Pro Ser Ser Arg Pro Gly Ser Ala Ala Thr Asn Ala Ala Thr Ala
            20                  25                  30
Leu Pro Thr Cys Ser Thr Ala Thr Ser Thr Pro Pro Pro Ser Ser Arg
        35                  40                  45
Cys Pro Ser Pro Ser Val Ser Arg Ile Ile Arg Ala Tyr Leu Asn Phe
    50                  55                  60
Arg Ser Glu Arg Gly Arg Val Leu Tyr Gly Glu Asp Ile Tyr Val Gly
65                  70                  75                  80
Tyr Arg Tyr Tyr Glu Lys Val Asp Leu Ala Pro Leu Phe Pro Phe Gly
                85                  90                  95
His Gly Leu Ser Tyr Thr Thr Phe Ser Arg Ser Asp Leu Ser Leu Ala
            100                 105                 110
Thr Thr Pro Glu Lys Pro Gln Leu Glu Asp Gly Glu Pro Ile Thr Val
        115                 120                 125
Thr Val Ser Val Thr Asn Thr Gly Ser Val Ala Gly Ala Glu Ile Val
    130                 135                 140
Gln Leu Trp Val Ala Pro Pro Pro Thr Gly Val Asn Arg Pro Val Arg
145                 150                 155                 160
```

```
Glu Leu Lys Gly Phe Thr Lys Val Phe Leu Gln Pro Gly Glu Thr Lys
                165                 170                 175
Lys Val Glu Ile Val Val Glu Lys Lys Leu Ala Thr Ser Trp Trp Asp
            180                 185                 190
Glu Gln Arg Glu Lys Trp Ala Ser Glu Lys Gly Thr Tyr Glu Val Leu
        195                 200                 205
Val Thr Gly Thr Gly Asp Glu Val Leu Lys Ser Arg Leu Gln
    210                 215                 220
```

<210> 23703
<211> 89
<212> PRT
<213> A.fumigatus

<400> 23703

```
Pro Leu Val Ser Pro Phe Leu Arg Val Thr Ser Leu Ser Thr Gly Ser
1               5                   10                  15
Leu His Ala Lys Ile Arg Pro Pro Gly Thr Phe Leu Ala Ile Gln Gly
            20                  25                  30
Val His Gly Ile Leu Ser Leu Phe Arg Ala Ala Lys Phe Asp Glu Gln
        35                  40                  45
Ile Val Val Val Ser Arg Leu Glu Ser Leu Pro Arg Val Arg Cys Glu
    50                  55                  60
Gln Phe Ala Asp Ile Phe Thr Phe Phe Phe Phe Gly Thr Asn Tyr Ser
65                  70                  75                  80
Pro Asn Trp Lys Val His Ser Thr Glu
                85
```

<210> 23704
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (49)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23704

```
Lys Lys Leu Tyr Arg Phe Glu Ser His Phe Thr Val Ala Val Asn Arg
1               5                   10                  15
Ile Asn Ala Tyr Ser Cys Asp Ala Asn Arg Ile Trp Thr Arg Ala Val
            20                  25                  30
Arg Gly Pro Arg Leu Asn Gln Thr Thr Gly Thr Asn Gln Cys Gly Asp
        35                  40                  45
Xaa Asn Gly Lys Ser Gln Pro Ala Glu Gln Phe Ile Ser Gly Ile Ile
    50                  55                  60
Arg Ile
65
```

<210> 23705
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23705

```
Leu Thr Asn Arg Asn Thr Cys Pro Val Asp Val Val Gly Arg Ser Ser
1               5                  10                  15
Ala Val Ser Leu Ala Arg Pro Ile Asn Asp Ser Arg Gln Pro Ser Pro
            20                  25                  30
Ile Thr Asp Gly Pro Cys Gly Thr Leu Ser Ser Phe Tyr Ala Phe Asp
        35                  40                  45
Met Ile Arg Ser Lys Tyr Ile Tyr Gln Lys Lys Ile Leu Leu Val Tyr
    50                  55                  60
Lys Asn
65
```

<210> 23706
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23706

```
Arg Cys Ile Phe Ile Ile Gln Ser Ile His Ser Lys His Thr Gln Gly
1               5                  10                  15
Arg Gln Glu Glu Asn Glu Gln Thr Gly Lys Glu Thr Phe Pro Met Thr
            20                  25                  30
Pro Leu Met Ser Asn Met Cys Asp Thr Arg Ser Ser Asp Thr Asn Val
        35                  40                  45
Pro His Val Asp Ser Asn Pro Asn Ser Ala Arg Val Glu Arg Ile Ser
    50                  55                  60
Asp Arg Arg Leu Ile Leu Leu Gly Asp Gly Ser Ser Leu Phe Arg Thr
65                  70                  75                  80
Gly Asn Ile Asp Arg Cys
                85
```

<210> 23707
<211> 155
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23707

```
Ser Ser Ala Ala Pro Ser Met Pro Gly Ser Ser Ala Ala Ser Phe Thr
1               5                  10                  15
Gly Ser Phe Gly Ile Ala Pro Ser Gly Val Asn Ser Gly Xaa Ser Thr
            20                  25                  30
Asp Trp Gly Ser Asn Phe Ser Ala Gly Val Ser Ser Phe Ser Thr Pro
        35                  40                  45
Ala Thr Gly Ser Val Asp Gln Phe Val Gln Met Gly Phe Glu Pro Glu
    50                  55                  60
Phe Leu Gln Gln Leu Asn Asp Arg Tyr Gly Glu Met His Ile Asp Glu
65                  70                  75                  80
Met Asp Gly Met Met Phe Gly Val Glu Gln Glu His Thr Arg Asn Ser
                85                  90                  95
Ala Leu Val Pro Glu Gly Asp Val Tyr Lys Leu Ala Gly Ser Thr Asp
            100                 105                 110
Ala Ala Ala Pro Leu Ser Asn Val Gly Ser Ala Pro Ile Asn Ile Pro
```

```
        115                 120                 125
Ser Pro Lys Gln Thr Gly Ala Val Ala Gln Gln Asp Gln Ala Ser Ile
    130                 135                 140
Gly Asp Pro Phe Tyr Pro Ser Ala Val Gly Val
145                 150                 155

<210> 23708
<211> 223
<212> PRT
<213> A.fumigatus

<400> 23708
Lys Ile Arg Ser Val Ser His Pro Thr Gln Val Thr Ile Ile Thr Val
1               5                   10                  15
Val Gly Gln Ala Gly Ala Phe Val Gly Ala Asn Phe Phe Gly Tyr Ile
            20                  25                  30
Ser Thr Phe Phe Gly Arg Arg Leu Thr Met Met Val Thr Cys Val Ile
        35                  40                  45
Gly Gly Ala Leu Val Pro Val Tyr Ile Leu Pro Arg Asp Met Ser Leu
    50                  55                  60
Ile Ala Ala Val Phe Trp Gln Gln Phe Cys Val Gly Gly Val Trp Gly
65                  70                  75                  80
Pro Ile Pro Ile His Leu Met Glu Val Asn Pro Pro Ala Leu Arg Ser
                85                  90                  95
Leu Leu Val Gly Leu Thr Tyr Gln Leu Gly Asn Leu Ala Ser Ser Ala
            100                 105                 110
Ser Ala Thr Ile Gln Ser Thr Ile Gly Ser Arg Tyr Pro Leu Pro Pro
        115                 120                 125
Ile Glu Ala Asn Lys Lys Arg Phe Asp Tyr Gly Lys Val Ile Gly Ile
    130                 135                 140
Phe Leu Gly Ala Val Trp Ala Tyr Ile Leu Phe Phe Leu Phe Trp Gly
145                 150                 155                 160
Pro Glu Ile Ala Ala Glu Glu Arg Glu Glu Glu Ala Glu Ala Ala Lys
                165                 170                 175
Tyr Leu Glu Asn Leu Arg Ser Glu Gly Val Ser Leu Ala Glu Ile Gly
            180                 185                 190
Val Val Gln Ala Arg Lys Ala Lys Gly Ala Gly Met Pro Pro Arg Asp
        195                 200                 205
Asn Asp Glu Glu Lys Gly Asn Glu Ala Ile Thr Glu His Ile Glu
    210                 215                 220

<210> 23709
<211> 77
<212> PRT
<213> A.fumigatus

<400> 23709
His Leu Leu Tyr Pro Phe Phe Gly Gly Leu Ala Arg Ile Cys Glu Ile
1               5                   10                  15
Ala Gln Ser Tyr Glu Lys Ala Tyr Gly Val Lys Ala Asp Leu Gln Arg
            20                  25                  30
Leu Gly Ser Leu Asp Asp Pro Tyr Lys Leu Met His Glu Lys Arg Glu
        35                  40                  45
Gln Asn Pro Ser Asp Ile Tyr Ser Tyr Met Ser Leu Tyr Val Leu Pro
    50                  55                  60
Trp Ala Leu Phe Ser Thr Gly Leu Ile Gly Val Arg Tyr
```

65 70 75

<210> 23710
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23710
Val Ser Asp Thr Asp Gly Phe Asp Arg Phe Phe Tyr Tyr Tyr Trp Val
1 5 10 15
Asn Gly Gln Thr Leu Val Gly Pro Glu Thr Asp Asn Ala Lys Tyr Pro
20 25 30
Glu Val Lys Pro Val Ser Trp Glu Gly Phe Met Ser Gln Trp Pro Leu
35 40 45
Gln Gln Leu Pro Thr Ala Tyr Phe Ala Leu Asn Ala
50 55 60

<210> 23711
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23711
Glu Leu Thr Asn Arg Ser Thr Asp Val Leu Glu Met Ser Ile Val Ser
1 5 10 15
Ala Asp Gly Arg His Arg Val Ile Asn Ala Tyr Ser Asp Pro Glu Tyr
20 25 30
Phe Trp Ala Val Arg Gly Gly Gly Gly Ser Ala Trp Gly Val Cys Asp
35 40 45
Leu Cys Tyr Ile Pro Glu Pro Arg Ile Tyr Trp Ile Gly Ala Asp Leu
50 55 60
Phe Ile Leu Arg Leu Leu His Arg
65 70

<210> 23712
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23712
Pro Val His Pro Gln Val Val Thr Ser Val Thr Tyr Lys Thr His Pro
1 5 10 15
Val Pro Gln Asn Leu Thr Ile Gly Phe Val Gln Leu Asn Ala Thr Asp
20 25 30
Arg Ser Ser Ser Thr Arg Leu Thr Ser Glu Ser Leu Lys Leu Ile Pro
35 40 45
Ala Val Thr Asp Ala Gly Tyr Thr Gly Tyr Gly Ser Phe Thr Gln Gly
50 55 60
Phe Gln Ala Ile Phe Leu Gln Pro Asn Gly Thr Ile Glu Ser Phe Asn
65 70 75 80
Gln Thr Phe Ala Pro Phe Ser Asn
85

<210> 23713
<211> 87
<212> PRT

<213> A.fumigatus

<400> 23713
Thr Gln Leu Pro Gly Val Thr Gly Ala Leu Ala Ala Tyr Ser Ala Thr
1 5 10 15
Trp Asn Asp Tyr Leu Arg Thr Leu Leu Gln Asp Pro Asn Ile Gly Thr
20 25 30
Asn Ile Gln Asp Thr Ser Arg Leu Leu Thr Ala Glu Val Ile Arg Asp
35 40 45
Lys Ala Asp Asp Leu Ala Glu Leu Ile Val Asp Asn Asp Gln Ala Ala
50 55 60
Gly Phe Asn Phe Ser Lys Glu Gly Pro Val Phe Ser Ser Trp Phe His
65 70 75 80
Gln Val Asn Pro Ser Leu Val
85

<210> 23714
<211> 191
<212> PRT
<213> A.fumigatus

<400> 23714
Phe Ser Arg Thr Ser Leu Cys Arg Cys Asp Pro Leu Ile Gly Gln His
1 5 10 15
Thr Pro Thr Ser Asn Arg Ser Asn Gly Ala Leu Arg Leu Glu Met Ala
20 25 30
Asn Asn Phe Asn Asn Gly Asp Tyr Tyr Gly Asn Thr Ser Phe Arg Met
35 40 45
Thr Pro Thr Thr Ser Gly Ser Gln Ser Asn Thr Ser His Ala Ala Leu
50 55 60
Asp Cys Ser Asn Ala Asp Met Met Met Met Thr Phe Ala Pro Phe Asp
65 70 75 80
Pro Leu Arg Met Gly Asp Phe Ser Phe Ser Glu Ser His Gly Ser Asp
85 90 95
Met Leu Ser Ser Gly Ile Ser Ala Asp Glu Leu Leu Gly Ser Ser Ser
100 105 110
Ser Leu Pro Ala Pro Pro Val Pro Leu Ala Asp Gln Leu Pro Asn Ala
115 120 125
Leu Phe Pro Tyr Asp Pro Leu Ser Gly Met Glu Asn Ser Val Pro Met
130 135 140
Ala Leu Asp Ala Ala Ser Ala Ile Ala Tyr Gly His Ser Ser Val Tyr
145 150 155 160
Gln Gln Ser Ser Leu Met Phe Glu Gln Thr Phe Asn Gly Gln Pro Met
165 170 175
Gln Gln Leu Pro Ser Phe Gln Asn Gln Thr Met Ser Leu Val Phe
180 185 190

<210> 23715
<211> 61
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (27)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23715
Ala Thr Ala His Ile Phe Gln Ser Ala Pro Glu Val Leu Gly Gly Tyr
1 5 10 15
Leu Trp Tyr Ile Gln Phe Ser Cys Cys Ala Xaa Gln Gly Asn Leu Phe
20 25 30
Phe Lys Ser Phe Asp Gly Phe Arg Tyr Tyr Gln Gly Pro Phe Leu Ser
35 40 45
Pro Thr His Ala Leu Leu Leu Leu Val Ala Gln Gly Asn
50 55 60

<210> 23716
<211> 119
<212> PRT
<213> A.fumigatus

<400> 23716
Val Cys Arg Leu Ser Leu Ser Leu Phe Thr Leu Trp Thr Ile Leu Thr
1 5 10 15
Asp Gly His Leu Ile Glu Val Leu Ser Val Pro Lys Asn Met Lys Leu
20 25 30
Leu Ala Val Pro Leu Phe Glu Leu Tyr Asp Asn Thr Ala Arg Tyr Gly
35 40 45
Pro Gln Leu Ser Ala Ile Pro His Leu Leu Ser Arg Tyr Asn Phe Glu
50 55 60
Phe Val Asp Glu Asn Asp Asn Val Val Ala Ala Thr Pro Gly Ala Pro
65 70 75 80
Leu Pro Glu His Gln Ile Pro Arg Thr Lys Val Leu Ala Gly Glu Thr
85 90 95
Asn Asp Gly Gln Asp Ala Gly Met Thr Asp Tyr Thr Glu Gly Gly Glu
100 105 110
Asn Gly Gly Glu Asn Ala Gln
115

<210> 23717
<211> 95
<212> PRT
<213> A.fumigatus

<400> 23717
Cys Ser Leu Cys Ser Arg Pro Gly Asp Tyr Leu His Phe Asp Asp Asp
1 5 10 15
Glu Val Glu Gly Phe Lys Lys Arg Leu Asn Glu Arg Leu Ala Pro Val
20 25 30
Gly Ser Gln Phe Ser Gly Glu Gly Val Asn Glu Asp Trp Glu Ile Gly
35 40 45
Asp Thr Leu Ala Gln Trp Trp Arg Pro Asn Phe Glu Thr Phe Met Tyr
50 55 60
Pro Phe Leu Pro Gly His Val Thr Arg Pro Lys Glu Cys Lys Lys Leu
65 70 75 80
Tyr Phe Ile Gln Leu Pro Lys Lys Ser Lys Phe Ala Asp Cys His
85 90 95

<210> 23718
<211> 199
<212> PRT

<213> A.fumigatus

<400> 23718

```
Leu Gly Arg Met Val Ala Leu His Thr Glu Leu Pro Ile Ile Ala Asp
1               5                  10                  15
Ala Asp Thr Gly Phe Gly Gly Pro Leu Asp Ile Ser Arg Thr Val Arg
            20                  25                  30
Leu Tyr Glu His Ala Gly Ile Ala Gly Leu His Ile Glu Asp Gln Val
        35                  40                  45
Met Ala Gly Ser Arg Ser Arg Cys Ala Leu Ile Cys Ile Asp Ala Gln
    50                  55                  60
Ser His Gln Val Phe Pro Lys Arg Cys Gly Gln Leu Gln Gly Lys Asp
65                  70                  75                  80
Val Val Ala Leu Glu Val Phe Ile Glu Gly Val Arg Ser Ala Val Glu
                85                  90                  95
Ala Arg Gln Asp Pro Asp Phe Val Ile Ile Ala Arg Thr Asp Ala Arg
            100                 105                 110
Gln Ala Lys Arg Phe Gly Gly Pro His Ala Gly Ser Glu Ala Phe His
        115                 120                 125
Glu Gly Ile Lys Arg Leu Lys Ala Ala Val Ala Ala Gly Ala Asp Met
    130                 135                 140
Val Phe Met Glu Cys Pro Arg Thr Glu Asp Glu Cys Arg Thr Leu Val
145                 150                 155                 160
Lys Glu Met Gly Asp Val Pro Val Pro Ile Asn Val Leu Pro Asn Val
                165                 170                 175
Ser Lys Ser Gly Phe Glu Asp Thr Ser Arg Tyr Ala Gly Leu His His
            180                 185                 190
Gly Ala Gly Arg Ile Arg Ala
        195
```

<210> 23719
<211> 121
<212> PRT
<213> A.fumigatus

<400> 23719

```
Glu Leu Cys Pro Ser Ile Gly Val Val Gln Ile Lys Leu Gly Asp Leu
1               5                  10                  15
Glu Ser Gln Asn Glu Asp Val Ser Thr Asp Leu Thr Trp Ser Thr Ile
            20                  25                  30
Leu Lys Trp Gly Ile Ile Thr Tyr Thr Ser Met Leu Ile Val Phe Ile
        35                  40                  45
Ser Ile Cys Asn Cys Cys Pro Ser Leu Ile Glu Val Arg Leu Leu Ser
    50                  55                  60
Leu Leu Ser His Arg Ser Ser Ser Gly Pro Phe Leu Ala Tyr Ser His
65                  70                  75                  80
Asn Val Gly His Phe Arg Lys Pro Thr Gly Phe Asp Ile Val Ala Leu
                85                  90                  95
Val Pro Tyr Lys His His Glu Gln Thr Ser Val Leu Asp Cys Tyr Leu
            100                 105                 110
Gln Val Leu Leu Asp Leu Ile Leu Phe
        115                 120
```

<210> 23720
<211> 60
<212> PRT

<213> A.fumigatus

<400> 23720
Leu Pro Pro Leu Ser Pro Leu Phe Phe Tyr Leu Leu Phe Thr Leu Ile
1 5 10 15
Ser Thr Thr Ser Leu Ile Tyr Phe Thr Ser Phe Leu Phe Phe Asn Arg
20 25 30
Ala Thr Ala Ser Phe Thr Ser Ser Ile Ile Ile Ile Ile Thr Ile His
35 40 45
Tyr Tyr Tyr Ser Pro Leu Ile Ile Tyr Tyr Tyr Lys
50 55 60

<210> 23721
<211> 98
<212> PRT
<213> A.fumigatus

<400> 23721
Ser Thr Cys Ala Leu Pro Trp Gly Val Arg Ile Val Gln His Arg Gly
1 5 10 15
Lys Arg Arg Glu Glu Ala Glu Thr Arg Thr Asn Asp Lys Ala Asn Tyr
20 25 30
Gln His Tyr Leu Ser Ile Thr Cys Lys Asp Ser Ser Leu Ile Pro Leu
35 40 45
Phe Tyr Leu Ile Phe Phe Pro Ile Trp Leu Val Ala Asn Leu Phe Tyr
50 55 60
Thr Leu Ala Thr Lys Ser Thr Arg Leu Phe Pro Val Leu Phe Pro Ser
65 70 75 80
Pro Thr Ile Thr Thr Ser Thr Leu Val Thr Leu Ile Gly Tyr Pro Pro
85 90 95
Leu Ala

<210> 23722
<211> 197
<212> PRT
<213> A.fumigatus

<400> 23722
Val Leu His Arg Lys Tyr Arg Cys Gly Asn Phe Ser Ala Arg Leu Trp
1 5 10 15
Leu Arg Ser Ser Ile Gln Asn Gly Ala Trp Lys Pro Tyr Trp Arg Phe
20 25 30
Ala Gly Ser Ser Pro Asp Ile Asn Leu Asn Asn Leu Pro Leu Gln Val
35 40 45
Cys Gln Gln Ile Gly Trp Asn Gly Gln Pro Val Leu Thr His Arg Thr
50 55 60
Gly Asp Gly Asp Thr Ser Ser Arg Val Thr Pro Val Thr Asp Ala Arg
65 70 75 80
Arg Leu Arg Ile Thr Phe Asn Gly Ser Val Ser Asp Val Leu Pro Trp
85 90 95
Lys Phe Thr Pro Gln Gln Arg Glu Val Cys Val Leu Pro Gly Glu Thr
100 105 110
Ala Leu Ala Phe Tyr Thr Ala Thr Asn Lys Gly Pro Thr Asp Ile Ile
115 120 125
Gly Val Ala Thr Tyr Ser Val Thr Pro Gly Gln Val Ala Pro Tyr Phe

```
    130                 135                 140
Ser Lys Ile Gln Cys Phe Cys Phe Glu Glu Gln Lys Leu Asn Ala Gly
145                 150                 155                 160
Glu Ser Val Asp Met Pro Val Phe Phe Phe Ile Asp Pro Asp Phe Val
                165                 170                 175
Lys Asp Pro Ala Met Lys Gly Ile Asp Thr Ile Thr Leu Ser Tyr Thr
            180                 185                 190
Phe Phe Ser Lys Arg
        195
```

<210> 23723
<211> 181
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23723

```
Val Asp Ala Asn Met Phe Gln Gly Ser Val Ala Lys Ala Xaa Thr Leu
1               5                   10                  15
Tyr Val Ile Thr Ala Tyr Cys Val Pro Xaa Thr Ile Gln Ala Asn Ala
            20                  25                  30
Asn Glu Gln Pro Met Asn Pro Thr Trp Val Met Glu Leu Pro Arg Gly
        35                  40                  45
Asp Glu Lys Gly Ala Phe Phe Thr Met Asp Met Gly Gly Thr Asn Phe
    50                  55                  60
Arg Val Cys Lys Val Thr Leu Asn Gly Thr Ala Gly Lys Tyr Asp Val
65                  70                  75                  80
Ile Gln Met Asp Asn Lys Ile Pro Lys Ser Leu Lys Ser Gly Thr Ala
                85                  90                  95
Glu Gln Leu Trp His Tyr Val Ala Asp Cys Leu Gln Gln Phe Val Asp
            100                 105                 110
Arg Tyr Ser Ile Ser Gln Lys Glu Leu Ala Glu Thr Pro Leu Ala Phe
        115                 120                 125
Thr Phe Ser Tyr Pro Val Thr Gln Thr Ser Ile Ser His Gly Ile Leu
    130                 135                 140
Gln Arg Trp Thr Lys Gly Phe Asp Ile Lys Gly Val Glu Gly Thr Asp
145                 150                 155                 160
Val Val Ala Ala Leu Gln Lys Val Leu Lys Asp Lys Val Ser Pro Thr
                165                 170                 175
Ser Val Leu Phe Ala
            180
```

<210> 23724
<211> 206
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (119)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23724
Asn Leu Pro Ala Arg Ile Val Ala Leu Val Asn Asp Thr Val Gly Thr
1 5 10 15
Leu Met Ala Ser Ser Tyr Val Asp Pro Lys Thr Glu Ile Gly Ser Ile
20 25 30
Phe Gly Thr Gly Ser Asn Ala Ala Tyr Met Glu Gln Cys Ser Lys Ile
35 40 45
Pro Lys Leu Ala Asp Gln His Leu Pro Asp Asp Ala Phe Met Ala Ile
50 55 60
Asn Cys Glu Tyr Gly Ala Phe Asp Asn Ser Gln Arg Val Leu Pro Phe
65 70 75 80
Thr Val Phe Asp Ala Glu Ile Asp Arg Ala Ser Pro Arg Pro Gly Gln
85 90 95
Gln Arg Tyr Glu Lys Met Val Ala Gly Phe Tyr Leu Gly Glu Ile Phe
100 105 110
Pro Leu Ile Leu Leu Asp Xaa His Asn Arg Lys Val Ile Phe Asp Gly
115 120 125
Gln Asn Ser Ser Lys Leu Ser Glu Pro Tyr Val Leu Asp Cys Leu Phe
130 135 140
Leu Ala Thr Ile Glu Ser Asp Ile Leu Gly Thr Cys Lys Pro Gly Lys
145 150 155 160
Ile Leu Leu Arg Lys His Ser Ser Leu Arg Leu Pro Arg Leu Asp Tyr
165 170 175
Ala Phe Ala Asn Thr Cys Gly Thr Pro Ile Pro Cys Ala Gly Glu Asp
180 185 190
Ile Pro Gly Arg Ile Gly Gly Glu Tyr Lys Lys Pro Gly Ile
195 200 205

<210> 23725
<211> 313
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (298),(306),(308),(309)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23725
Met Met Glu Asn Asp Thr Ile Arg Leu Ser Glu Arg Pro Tyr Gly Ser
1 5 10 15
Pro Val Arg Glu Ser Pro Ser Gln Ile Thr Pro Ala Ala Thr Pro Ser
20 25 30
Ser Ser Ser Val Leu Ser Gly Ser Gly Asn Arg Val Thr Ala Pro Ala
35 40 45
Gln Val Phe Ile Gln Glu Lys Asp Leu Cys Leu Ser Asp Leu Asn Ser
50 55 60
Tyr Val Ala Val Gly Val Leu Arg Lys Arg Asn Glu Pro His Asp Val
65 70 75 80
Asp Ala Asp Pro Trp Ala Asp Asp Asp Lys Tyr Pro Gly Ala Glu Ile
85 90 95
Ala Met Leu Lys Lys Gly Asn Trp Val Arg Thr Cys Glu Tyr Thr Tyr
100 105 110
Val Lys His Pro Gln Trp Cys Tyr Val Arg Val Tyr Val Leu Pro Asp
115 120 125
Asp Ala Gly His Lys Tyr Val Asp Arg Ser Ser Lys Thr Leu Arg Glu

```
    130                 135                 140
Ala Leu Lys Val Val Met Ser Lys Val Asn Arg Ser Val Asp Ala Trp
145                 150                 155                 160
Asp Gly Ile Phe Phe Ser Asp Glu Gln Val Thr Asp Gly Asn Ser Asn
                165                 170                 175
Asp Thr Gly Thr Glu Asp Glu Ser Leu Trp Tyr Ile Phe Asn Thr Leu
            180                 185                 190
Arg Asn Pro Glu Pro Gln Val Glu Ala Val Lys Asp Pro Tyr Ala Arg
        195                 200                 205
Leu Ala Met Arg Gln Leu Leu Ser Glu Glu Asp Ala Gly Asp Thr Val
    210                 215                 220
Leu Asp Ser Gly Val Glu Gly Leu Lys Thr Pro Leu Tyr Pro Tyr Gln
225                 230                 235                 240
Arg Arg Ser Ala Ala Phe Met Val Gln Arg Glu Ala Gln Pro Ala Gln
                245                 250                 255
Met Leu Asp Pro Arg Leu Gln Leu Phe Lys Ala Pro Asn Gly Arg Glu
            260                 265                 270
Tyr Tyr Tyr Asp Glu Glu Glu Gly Thr Ile Tyr Lys Glu Lys Lys Leu
        275                 280                 285
Tyr Ser Glu Ala Cys Gly Gly Ile Leu Xaa Glu Thr Met Gly Cys Trp
    290                 295                 300
Val Xaa Lys Xaa Xaa Asn Pro Asn Phe
305                 310

<210> 23726
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23726
Gly Ser Leu Arg Phe Leu Arg Thr Pro Thr Ala Thr Tyr Glu Phe Arg
1               5                   10                  15
Ser Asp Lys His Lys Ser Phe Ser Trp Met Asn Thr Cys Ala Gly Ala
            20                  25                  30
Val Thr Leu Phe Pro Glu Pro Asp Asn Thr Asp Glu Asp Glu Gly Val
        35                  40                  45
Ala Ala Gly Val Ile Cys Asp Gly Asp Ser Arg Thr Gly Asp Pro
    50                  55                  60

<210> 23727
<211> 197
<212> PRT
<213> A.fumigatus

<400> 23727
Ser Val Asp Ala Ala Phe Val Arg Pro Ile Tyr Ala Gly Asn Ala Ile
1               5                   10                  15
Leu Thr Val Gln Ser Thr Asp Pro Ile Lys Val Ile Thr Val Arg Gly
            20                  25                  30
Thr Ala Phe Gln Gly Thr Glu Thr Glu Gly Gly Ser Ala Glu Val Val
        35                  40                  45
Glu Gly Ala Asp Pro Lys Ala Pro Ala Gln Thr Glu Trp Val Ser Glu
    50                  55                  60
Glu Leu Ala Lys Ser Glu Arg Pro Asp Leu Ala Thr Ala Ser Arg Val
65                  70                  75                  80
Val Ser Gly Gly Arg Gly Leu Lys Ser Lys Glu Glu Phe Asp Arg Ile
```

```
                85                  90                  95
Met Val Pro Leu Ala Asp Ala Leu Gly Ala Ala Ile Gly Ala Ser Arg
            100                 105                 110
Ala Ala Val Asp Ser Gly Phe Ala Asp Asn Ser Leu Gln Val Gly Gln
        115                 120                 125
Thr Gly Lys Asn Val Ala Pro Gln Leu Tyr Leu Cys Ala Gly Ile Ser
    130                 135                 140
Gly Ala Ile Gln His Leu Ala Gly Met Lys Asp Ser Lys Val Ile Ala
145                 150                 155                 160
Ala Ile Asn Lys Asp Pro Asp Ala Pro Ile Phe Gln Val Ala Asp Val
                165                 170                 175
Gly Leu Val Gly Asp Leu Phe Glu Lys Val Pro Glu Leu Thr Glu Lys
            180                 185                 190
Leu Lys Ser Gln Ala
        195
```

<210> 23728
<211> 145
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(9),(10),(11),(13),(16)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23728

```
Gly Glu Glu Gly Arg Tyr Leu Xaa Xaa Xaa Xaa Leu Xaa Met Glu Xaa
1               5                   10                  15
Leu Ser Val Pro Ser Ser Pro Val Val Lys Thr Ser Asp Leu Tyr Ala
            20                  25                  30
Phe Leu Gln Val Leu Met Leu Ile Glu Ile Gln Gly Leu Pro Glu Asn
        35                  40                  45
Tyr Ala Pro Leu Leu Val Glu Asn Ile Lys Lys Gly Glu Tyr Thr His
    50                  55                  60
Val Val Ala Gly His Ser Ala Phe Gly Lys Ser Leu Leu Pro Arg Val
65                  70                  75                  80
Ala Ala Leu Leu Asp Val Gln Gln Ile Ser Asp Ile Thr Ala Ile Glu
                85                  90                  95
Ser Glu Asp Ser Met Trp Pro Pro Asp Arg Val Ser Leu Asp Tyr Val
            100                 105                 110
Met Ser His Ser His Ile Asn Pro Leu Met Gln Leu Leu Ser Ala Gln
        115                 120                 125
Ser Thr Leu Glu Met Pro Ser Ser Pro Phe Asn Arg Pro Ile Pro Ser
    130                 135                 140
Arg
145
```

<210> 23729
<211> 215
<212> PRT
<213> A.fumigatus

<400> 23729

```
Lys Ile Ile Lys Gly Thr Ser Ala Met Arg Ser Leu Tyr Leu Arg Leu
1               5                   10                  15
```

```
Ala Leu Gln Leu Leu Gly Lys Leu Trp Asp Phe Leu Glu Lys Ile Ala
            20                  25                  30
Asn Lys Ala Tyr Ile Ser Asn Leu Glu Asp Arg Ser Ile Arg Ile Leu
        35                  40                  45
Val Asp Ser Ser Asn Asp Leu Ala Val Leu His Thr Ser Lys Val Leu
    50                  55                  60
Asp Gly Thr Arg Asn Thr Ser Thr Gln Val Glu Leu Arg Arg Asn Val
65                  70                  75                  80
Leu Ala Cys Leu Ala Asn Leu Lys Thr Val Val Gly Lys Ser Thr Val
                85                  90                  95
Asn Arg Ser Ala Gly Ser Thr Asn Cys Ser Ser Gln Gly Val Ser Lys
            100                 105                 110
Arg His His Asp Ala Val Glu Leu Leu Phe Arg Phe Gln Ala Thr Thr
        115                 120                 125
Thr Arg His Asp Ala Arg Gly Ser Ser Gln Ile Arg Ala Leu Arg Leu
    130                 135                 140
Gly Glu Leu Phe Arg Tyr Pro Leu Gly Leu Ser Gly Ser Leu Gly Val
145                 150                 155                 160
Ser Ser Leu Asp Asp Leu Ser Arg Ala Ala Leu Gly Leu Ser Thr Leu
                165                 170                 175
Glu Cys Ser Ala Ser Asp Cys Asp His Leu Asp Gly Ile Gly Arg Leu
            180                 185                 190
Asn Gly Glu Asp Gly Ile Ser Ser Val Asp Trp Ala Asp Lys Ser Cys
        195                 200                 205
Ile Asn Gly Leu Ile Cys Glu
    210                 215
```

<210> 23730
<211> 86
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9),(34)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23730

```
Trp Ser Arg Lys Pro Lys Ala Pro Xaa Pro Tyr Pro Ser Ile Tyr Ile
1               5                   10                  15
Ser Ile Gln Arg Ile Ala Thr Cys Ile His Ala Cys Met Leu Leu Val
            20                  25                  30
Asp Xaa Ser Thr Ile Tyr Thr Ile Glu Ala Ala Ala Lys Met Gly Ala
        35                  40                  45
Ser Pro Leu Ile Phe Ile Leu Ala Thr Val Ile Ile Ala Met Gly Glu
    50                  55                  60
Asp Glu Glu Gly Glu Glu Gly Pro Met Ser Val Ser Gln Gly Glu Gly
65                  70                  75                  80
Glu Thr Phe Val Thr Gln
                85
```

<210> 23731
<211> 378
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23731

```
Ser Ile Ser Xaa Ala Tyr Glu Ile Gln Ala Phe Phe Lys Ala Leu Asn
1               5                  10                  15
Leu Ala Val Met Leu Phe Ser Thr Gln Trp Ala Gln Gly Lys Arg Gly
            20                  25                  30
Trp Asp Glu Leu His Gly Ala Ser Arg Cys Glu Asn Phe Met Asp His
        35                  40                  45
Lys Gly Glu Glu Leu Gly Asp Glu Phe Glu Gln Ala Leu Arg Gln Ser
    50                  55                  60
Ile Trp Glu Gln Ala Lys Arg Thr Leu Gln Asp Val Ser Asp Leu Glu
65                  70                  75                  80
Cys Phe Arg Val Val Phe Ala Glu Leu Ile Phe Gly Leu Val Gln Lys
                85                  90                  95
Pro Tyr Ser Arg Asn Glu Tyr Asp Pro Asp Ala Thr Ile Gly Leu Ala
            100                 105                 110
Thr Arg Asn Leu Cys Lys Ser Gly Thr Asn Ser Ile Ser Pro Thr Ile
        115                 120                 125
Ala Asp Ile Phe Ala Arg Glu Gly Pro Pro Ile Phe Met Glu Arg Gly
    130                 135                 140
Ala Arg Lys Met His Ala Leu Lys Tyr Arg Phe Glu Ala Tyr Gln Ala
145                 150                 155                 160
Gly Phe Arg Gln Gly Ala Arg Ser Phe Glu Ser Glu Pro Asn Ala Gly
                165                 170                 175
Ala Pro Gln Glu Met Ser Ala Glu Asp Gly Gln Thr Ile Gly Leu Leu
            180                 185                 190
Tyr Trp Leu Ala Val Met Phe Asp Thr Val Ser Ser Ser Ile Asn Glu
        195                 200                 205
Arg Pro Val Val Val Pro Asp Glu Glu Cys Gln His Asp Gly Ala Gln
    210                 215                 220
Arg Ala Ala Lys Asp Pro Leu Glu Leu Pro Val Thr Asn Val Arg Trp
225                 230                 235                 240
Lys Leu Asp Leu Tyr Ala Gln Asp Asp Thr Glu Arg Pro Ser Leu Leu
                245                 250                 255
His Trp Pro Cys Thr Tyr Asp Val Ala Thr Arg Ala Val Ala Arg Ser
            260                 265                 270
Ala Ala Val Lys Val Leu Leu Phe Arg His Ile Thr Tyr Leu Gln Asn
        275                 280                 285
Gly Leu Arg Asn Cys Glu Asn Gly Pro Ala Ile Glu Glu Ile Ile Lys
    290                 295                 300
Ala Thr Leu Ser Val Tyr Arg Tyr Trp Asp Val Thr His Gly Ala Phe
305                 310                 315                 320
Phe Arg Asp Leu Ile Met Asn Tyr Glu Ser Val Pro Pro Arg Ile Arg
                325                 330                 335
Ser Trp Phe Pro Cys Ile Ser Ile Pro Trp His Leu Gly Ser Leu Met
            340                 345                 350
Leu Ala Asn Leu Ile Asp Tyr Val Asp Glu Asn Arg Leu Gly Cys Asp
        355                 360                 365
Ser Tyr Arg Ala Lys Arg Leu His Val Gly
    370                 375
```

<210> 23732

<211> 91
<212> PRT
<213> A.fumigatus

<400> 23732
Ser Tyr Gln Ser Lys Lys Gly Lys Met Glu Asn Lys Leu Cys Ser Gln
1 5 10 15
Leu Ala Gly Arg Glu Ser Pro Ala Pro Glu Ser Gln Ser Ala Glu Gln
20 25 30
Gln Ile Pro Phe Cys Trp Gly Arg Ile Pro Arg Ser Ser Gln Gln Arg
35 40 45
Thr Glu Ile Gln Ile Gln Gln Thr Ser Asp Asn Ile Lys Pro Phe Gln
50 55 60
Leu Glu Ser Asn Pro Ile His Pro Leu Glu Gly Pro Glu Met Ala Lys
65 70 75 80
Tyr Ala Gly Asp Lys Val Arg Arg Leu Ser Tyr
85 90

<210> 23733
<211> 167
<212> PRT
<213> A.fumigatus

<400> 23733
Lys Pro Gln His Gln Arg Tyr Val Cys Ile Gly Thr Val Tyr Gly Leu
1 5 10 15
Thr Leu Leu Ile Val Gln Ala Ser Thr Glu Ala Glu Pro Phe Glu Glu
20 25 30
Arg Trp Arg Ala Thr Gln Leu Gln Ser Gly Ser Ser Met Val Ser Ala
35 40 45
Ala Ile Thr Cys Leu Pro Pro Arg Tyr Val Ala Asp Phe Leu Val Gln
50 55 60
Ile Phe Phe Lys Tyr Ala Gln Thr Asn Asn Phe Tyr Val Glu Glu Asp
65 70 75 80
Trp Leu Leu Glu Lys Met His Thr Cys Tyr Thr Asn Pro Ser Ser Leu
85 90 95
Ser Ser Asp Asp Ala Gly Ser Val Cys Ser Ile Leu Met Val Leu Ala
100 105 110
Val Gly Thr Gln Phe Ala His Met Glu Ser Ala Thr Pro Val Asn Arg
115 120 125
Leu Ser Ala Asp Ser Ser Ile Asn Tyr Asp His Asn Phe Ser Glu Asp
130 135 140
Glu Val Gly Leu Thr Phe Tyr Gln Phe Ala Ser Lys Leu Leu Pro Asp
145 150 155 160
Ile Ile Ala Thr Ala Ser Val
165

<210> 23734
<211> 108
<212> PRT
<213> A.fumigatus

<400> 23734
His Arg Tyr Arg Ala Ala Glu Val Arg Pro Met Cys Lys Tyr Pro Gln
1 5 10 15
Gly Val Val Leu Ala Asn Leu Glu Pro Ala Thr Pro Val Gly Val Ala

```
            20                  25                  30
Ile Leu Ala Ser Ala Pro Arg Gln Gly Pro Pro Gly Lys Pro Ala Pro
        35                  40                  45
Ala Pro Ala Ala Ser Val Pro Pro Val Gly Thr Met Val Phe Ile Leu
    50                  55                  60
Leu Leu Leu Ser Ala Pro Ser Thr Ser Ser Ala Gly Ala Ala Pro Pro
65                  70                  75                  80
Pro Ala Asn Leu Pro Thr Arg His Arg Arg Gly Arg Gly Lys Lys Pro
                85                  90                  95
Lys Asp Gln Lys Ala Asp Lys Gly Glu Gly Asp Lys
            100                 105
```

<210> 23735
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23735

```
Tyr Trp Asn Val Lys Cys Glu Tyr Phe Cys Pro Leu Ser Ala Ser Phe
1               5                   10                  15
Gly Met Pro Leu Pro Cys Cys Asn Lys Ala Gln Glu Asp Ile Ala Thr
            20                  25                  30
Gln Ser Gln Tyr Ser Arg Thr Ala Ile Asn Val Lys Ile Arg Arg Arg
        35                  40                  45
Lys Arg Glu Cys Gly Val Cys Ser Ala Lys Ala Gly Leu Gly Ser Trp
    50                  55                  60
Thr Cys Val Pro
65
```

<210> 23736
<211> 154
<212> PRT
<213> A.fumigatus

<400> 23736

```
Arg Ala Ala Ile Met Gln Ser Gly Ser Val Val Glu Arg Thr Ser Ser
1               5                   10                  15
Arg Arg Phe Pro Ala Gln Glu Leu Tyr Asp Ser Leu Val Ala Ser Thr
            20                  25                  30
Arg Cys Ala Glu Ala Glu Asp Ser Leu Asn Cys Leu Arg Tyr Ile Pro
        35                  40                  45
Tyr Asp Glu Ile Asn Asn Ala Phe Glu Lys Ser Pro Tyr Gly Ile Gly
    50                  55                  60
Arg Met Ala Glu Ala Phe Gly Gly Pro Ser Ile Asp Gly Asn Phe Leu
65                  70                  75                  80
Pro Asn Tyr Gly Ser Leu Ser Leu Lys Asp Ser Arg Met Val Lys Val
                85                  90                  95
Pro Val Ile Ser Gly Val Val Ser His Glu Gly Ser Asn Gln Ile Pro
            100                 105                 110
Gly Ser Val Arg Asp Trp Ala Asp Leu Arg Asp Tyr Leu Ile Ser Ile
        115                 120                 125
Lys His Ser Leu Val Leu Lys Leu Cys Leu Val Thr Asp Cys Cys Val
    130                 135                 140
Arg Ser His Leu Ile Ser Asn Asn Cys Gly
145                 150
```

<210> 23737
<211> 220
<212> PRT
<213> A.fumigatus

<400> 23737
Arg His Thr Leu Thr Ser Arg Phe Pro Asp Ile Leu Trp Glu Gly Cys
1 5 10 15
Ala Ser Gly Gly Gly Arg Phe Asp Pro Gly Val Leu Gln Tyr Phe Pro
20 25 30
Gln Ile Trp Thr Ser Asp Asp Thr Asp Ala Val Glu Arg Ile Phe Ile
35 40 45
Gln Met Gly Thr Ser Leu Val Tyr Pro Ala Ser Ala Met Gly Ala His
50 55 60
Ile Ser Ala Val Pro Asn His Gln Thr Gly Arg Thr Val Pro Leu Thr
65 70 75 80
Phe Arg Ala His Val Ala Met Met Gly Gly Ser Phe Gly Leu Glu Leu
85 90 95
Asp Pro Leu Lys Met Cys Pro Glu Glu Lys Ala Val Val Pro Glu Leu
100 105 110
Ile Ala Leu Ala Glu Lys Val Asn Pro Ile Val Leu Lys Gly Glu Met
115 120 125
Trp Arg Leu Ser Leu Pro Glu Glu Ser Asn Trp Pro Ala Val Leu Phe
130 135 140
Val Ser Glu Asp Gly Val Lys Ala Ile Leu Phe Leu Phe Gln Leu Ser
145 150 155 160
Pro Thr Val Asn His Thr Ile Pro Arg Val Arg Leu Gln Gly Leu Asp
165 170 175
Arg Gln Ala Met Tyr Ser Val Asp Glu Gln Gly Pro Tyr Ser Gly Asp
180 185 190
Met Leu Met Asn Leu Gly Leu Gln Tyr Ser Phe Ser Thr Asp Tyr Ala
195 200 205
Ser Lys Val Val Phe Leu Glu Arg Val Asp Val Met
210 215 220

<210> 23738
<211> 97
<212> PRT
<213> A.fumigatus

<400> 23738
Cys Tyr Gly Leu Thr Gln Thr Gln Ser Thr Thr Gly Leu Ile Met Ser
1 5 10 15
Ala Phe Ser Lys Leu Pro Ser Gly Ala Ser Ile Ala Leu Lys Pro Phe
20 25 30
Arg Val Ser Ile Pro Glu Glu Glu Leu Asp Glu Phe Gln Ala Leu Leu
35 40 45
Lys Leu Ser Lys Ile Ala Pro Pro Thr Phe Glu Asn Ser Arg Pro Ser
50 55 60
Gly Gln Tyr Gly Ile Thr Ser Asp Trp Leu Thr Thr Leu Arg Lys Gln
65 70 75 80
Trp Gln Lys Asp Phe Asp Trp Tyr Thr Ile Leu Val Leu Cys Glu Arg
85 90 95
Leu

<210> 23739
<211> 277
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (57),(272),(273),(274)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23739
Val Ser Gly Phe His Pro Ser Arg Ile His Glu Thr Pro Lys Val Ile
1 5 10 15
Phe Pro Ala Val Ile Pro Cys Pro Glu Arg Arg Met Val Ile Gln Leu
20 25 30
Gly Arg Arg Leu Arg Lys Gly Pro Glu Gly Arg Glu Arg His Asp Leu
35 40 45
Ala Arg Lys Gly Gly Ser Asp Asp Xaa Asp Gly Ile Phe Met Gly Pro
50 55 60
Cys Val Gly Gln Thr Gly Ser Ala Leu Arg Phe Gly Ile Pro Asn Leu
65 70 75 80
Cys Leu Gln Asp Ser Pro Leu Gly Val Arg Asn Ser Asp His Asn Thr
85 90 95
Ala Phe Pro Ala Gly Ile Thr Val Gly Ala Thr Phe Asp Lys Asp Leu
100 105 110
Met Tyr Ala Arg Gly Val Glu Leu Gly Lys Glu Phe Arg Gly Lys Gly
115 120 125
Ile Asn Val Leu Leu Gly Pro Ser Val Gly Pro Ile Gly Arg Lys Pro
130 135 140
Arg Gly Gly Arg Asn Trp Glu Gly Phe Gly Ala Asp Pro Ser Leu Gln
145 150 155 160
Ala Ile Gly Gly Ala Gln Thr Ile Lys Gly Ile Gln Ser Gln Gly Val
165 170 175
Ile Ala Thr Ile Lys His Tyr Ile Gly Asn Glu Gln Glu Met Tyr Arg
180 185 190
Met Ser Asn Val Gly Gln Arg Ala Tyr Ser Ser Asn Ile Asp Asp Arg
195 200 205
Thr Leu His Glu Val Tyr Leu Trp Pro Phe Ala Glu Gly Ile Arg Ala
210 215 220
Gly Val Gly Ala Val Met Thr Ala Tyr Asn Glu Val Ser Ala Ser Thr
225 230 235 240
Leu Cys Pro Ser Val Lys Pro Ser Asp Glu Leu Ala Arg Gln Val Asn
245 250 255
Ser Ser Ala Cys Ser Gln Tyr Ser Lys Leu Leu Arg Asp Val Pro Xaa
260 265 270
Xaa Xaa Ile Arg Asn
275

<210> 23740
<211> 226
<212> PRT
<213> A.fumigatus

<400> 23740
Gly Arg Asp Pro Ser Leu Pro Gly Val Arg Thr Ser Glu Leu Gln Gln
1 5 10 15

```
Phe Gly Leu Lys Met Tyr Val Trp His Ile Ala Leu Leu Leu Ala Leu
            20                  25                  30
Trp Leu Ile Ser Phe His Ser Tyr Asn Ala Asn Val Lys Glu Leu Gln
        35                  40                  45
Asp Thr Pro Gly Ser Glu Tyr Phe Ala Phe Leu Ser Arg Lys Ala His
    50                  55                  60
Glu Gly Ala Leu Asn Gln Ala Lys Ile Asp Val Ala Glu Ala Arg Met
65                  70                  75                  80
Arg Gly Glu Ile Gly Glu Ala Glu Lys Lys Gly Arg Ala Lys Gln Glu
                85                  90                  95
Ile Ser Lys Ile Asp Ala Asp Thr Ala Val Leu Glu Thr Lys Arg Lys
            100                 105                 110
Ala Glu Lys Ala Lys Ala Asp Ser Glu Leu Met Asn Arg Gln Thr Glu
        115                 120                 125
Leu Asp Asn Ser Val Arg Leu Ala Lys Ile Ser Ala Gln Arg Gln Ala
    130                 135                 140
Glu Met Arg Asp Ala Glu Leu Gln Lys Gln Val Glu Ser Lys Arg Ala
145                 150                 155                 160
Glu Thr Glu Leu Glu Arg Leu Arg Ala Val Glu Val Thr Lys Ser Lys
                165                 170                 175
Val Ala Arg Glu Ser Ser Gln Glu Lys Ala Asp Ala Ser Phe Tyr Thr
            180                 185                 190
Glu Gln Asn Ala Ala Asp Ala Gln Leu Tyr Lys Arg Lys Met Glu Ala
        195                 200                 205
Asp Ala Thr Cys Thr Ser Leu Asn Leu Cys Phe Leu Ser Phe Phe His
    210                 215                 220
Leu Arg
225
```

<210> 23741
<211> 89
<212> PRT
<213> A.fumigatus

```
<400> 23741
Pro Thr Lys Glu Ala Pro Val Asp Thr Ser Ala Thr Pro Thr Thr Phe
1               5                   10                  15
Val Thr Ala Thr Lys Pro Ala Thr Thr Ala Ala Pro Ala Ala Pro Ser
            20                  25                  30
Pro Ser Ser Gly Ser Asn Ser Gly Ser Asp Ser Cys Asn Ser Gly Ser
        35                  40                  45
Ala Ser Gly Ser Val Lys Ile Tyr Gly Gln Cys Gly Gly Gln Asn Tyr
    50                  55                  60
Ser Gly Pro Thr Ser Cys Glu Ala Gly Leu Ile Cys Lys Glu Trp Asn
65                  70                  75                  80
Pro Tyr Tyr His Gln Cys Val Ser Ala
                85
```

<210> 23742
<211> 361
<212> PRT
<213> A.fumigatus

```
<400> 23742
Ala Thr Asn Ile Thr Arg Pro Thr Asn Asn Ser Thr Lys Leu Val Ser
1               5                   10                  15
```

```
Thr Arg Ala Thr Lys Cys Arg Thr Ile Gln Val Glu Ser Gly Asp Ser
            20                  25                  30
Cys Ala Ser Leu Ala Thr Glu Cys Gly Ile Thr Pro Ala Gln Phe Thr
        35                  40                  45
Gln Tyr Asn Pro Ser Ser Ser Leu Cys Ser Ser Leu Thr Pro Gly Lys
    50                  55                  60
His Val Cys Cys Thr Ala Gly Thr Leu Pro Asp Phe Thr Pro Gln Pro
65                  70                  75                  80
Gly Ala Asp Gly Tyr Cys Tyr Ser Tyr Leu Val Lys Thr Gly Asp Ser
                85                  90                  95
Cys Ala Ser Leu Ala Ala Ala Tyr Asp Leu Thr Asn Glu Glu Ile Glu
            100                 105                 110
Ser Phe Asn Lys Glu Thr Trp Gly Trp Asn Gly Cys Glu Lys Leu Phe
        115                 120                 125
Ala Asp Tyr Asn Ile Cys Leu Ser Thr Gly Tyr Pro Pro Met Pro Ala
    130                 135                 140
Pro Ile Ala Asn Ala Val Cys Gly Pro Gln Val Asn Asp Thr Ala Lys
145                 150                 155                 160
Ala Pro Pro Gly Thr Asp Leu Ser Thr Leu Asn Gln Cys Pro Leu Asn
                165                 170                 175
Ala Cys Cys Asn Ile Trp Gly Gln Cys Gly Thr Thr Gly Asp Phe Cys
            180                 185                 190
Thr Pro Ser Asn Ser Ser Thr Gly Ala Pro Gly Thr Ala Ala Pro Gly
        195                 200                 205
Gln Asn Gly Cys Ile Ser Asn Cys Gly Met Asp Ile Ile Thr Ser Ser
    210                 215                 220
Ala Pro Ala Glu Thr Tyr Ser Ile Ala Tyr Phe Glu Ala Phe Ser Trp
225                 230                 235                 240
Lys Arg Ser Cys Leu Arg Met Ser Val Thr Ser Ile Asp Thr Ser Ala
                245                 250                 255
Tyr Thr His Ile His Tyr Ser Phe Ile Thr Leu Asn Glu Asp Leu Ser
            260                 265                 270
Ile Asn Ile Asp Glu Val Ala Asp Gln Leu Pro Leu Phe Lys Gly Met
        275                 280                 285
Val Gly Ile Lys Lys Ile Val Ser Val Ala Gly Trp Ala Phe Ser Thr
    290                 295                 300
Glu Pro Ala Thr Tyr Gln Ile Phe Arg Asn Ala Val Ala Thr Gln Ala
305                 310                 315                 320
Asn Arg Lys Thr Leu Val Ser Asn Ile Ile Arg Phe Leu Asp Asp Tyr
                325                 330                 335
Ser Leu Asp Gly Val Asp Trp Asp Trp Glu Tyr Pro Ala Asp Arg Leu
            340                 345                 350
Gln Gln Thr Arg Gly Ser Gln Ile Arg
        355                 360
```

<210> 23743
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23743

```
Leu Val Leu Phe His Leu Pro Asp Thr Trp Gln Ile Tyr Glu Trp Phe
1               5                   10                  15
Asp Gly Ser Ser Ala Ala His Val Pro Pro Gly Phe Cys Ser Leu Val
            20                  25                  30
Pro Gly Ala Ser Thr Ser Leu Glu Gly Phe Leu Ser Thr Ala Tyr Pro
```

```
        35                  40                  45
Ala Ala Tyr Gly Ala Ser Cys Cys Ile Gly Gly Ala Tyr Ala
    50                  55                  60
```

<210> 23744
<211> 161
<212> PRT
<213> A.fumigatus

<400> 23744

```
Gly Leu Gly Pro Leu Phe Lys Phe Gly Asp Val Asp Leu Glu Cys Asp
1               5                   10                  15
Gly Arg Gly Ile Thr Gly Gly Pro Asp Arg Gly Arg Gly Arg Lys Thr
            20                  25                  30
Glu Thr Glu Thr Gly Thr Arg Lys Ser Ser Gln Thr Arg Thr Ser Ser
        35                  40                  45
Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Gly Leu Ser Ala Gly Ala
    50                  55                  60
Ala Ala Gly Ile Gly Val Gly Ala Gly Ala Gly Val Ile Leu Val Gly
65                  70                  75                  80
Ala Leu Val Trp Val Leu Phe Arg Arg Arg Arg Arg His Arg Ala Ala
                85                  90                  95
Ser His Gln Pro Gln Ser Val Tyr Ser Pro Ala Gly Leu Gly Gly Gln
            100                 105                 110
Ala Tyr Ala Pro Pro Met Gln Gln Glu Ala Pro Tyr Ala Ala Gly Tyr
        115                 120                 125
Ala Val Glu Arg Asn Pro Ser Lys Leu Val Glu Ala Pro Gly Thr Ser
    130                 135                 140
Glu Gln Lys Pro Gly Gly Thr Trp Ala Ala Glu Leu Pro Ser Asn His
145                 150                 155                 160
Ser
```

<210> 23745
<211> 98
<212> PRT
<213> A.fumigatus

<400> 23745

```
Ser Gly Gly Leu Tyr Pro Ser Gln Lys Cys Trp Trp Ile Ile Ile Lys
1               5                   10                  15
Val Ser Ser Ser Asp Ala Thr Asp Thr Lys Ser Ser Val Ser Ala Glu
            20                  25                  30
Tyr Phe His Cys Thr Asp Ala Ala Val Lys Leu His Ser Ser Ala Val
        35                  40                  45
Ile Leu Leu Phe Ile Gly Gly Phe Leu Asp Leu Gln Ser Leu Tyr Cys
    50                  55                  60
Ile Ser Thr Cys His Thr Ser Lys Ala Gly Thr Glu Leu Ile Phe Tyr
65                  70                  75                  80
Ala Leu Leu Gly Asp Val Arg His Phe Phe Ser Tyr Trp Cys Ser Leu
                85                  90                  95
Met Pro
```

<210> 23746
<211> 101

<212> PRT
<213> A.fumigatus

<400> 23746
Asp Ser Ser Leu Ala Leu Leu Pro Pro Ser Ser Tyr Ala Ser Thr Thr
1 5 10 15
Leu Arg Thr Thr Trp Ser Ser Ser Cys Thr Ala Ser Arg Asn Phe Ser
20 25 30
Gly Val Pro Leu Leu Leu Ala Phe Gly Leu Ser Tyr Ser Leu Ile Ile
35 40 45
Leu Ile Gln Ser Leu Pro Thr Cys Ile Val Arg Phe Val Leu Leu Asp
50 55 60
Gly Ser Ile Met Ser Tyr Asp Val Cys His Ala Ser Val Val Lys Thr
65 70 75 80
Thr Tyr Met Thr Asp Ser Leu Leu Pro Glu Ala Ser Thr Leu Ile Pro
85 90 95
Leu Phe Asn Leu Gln
100

<210> 23747
<211> 212
<212> PRT
<213> A.fumigatus

<400> 23747
His Asn Ser Phe Gln Pro Ala Ser Val Asp Ala Asp Ala Ser Arg Ala
1 5 10 15
Gly Arg Ser Gly Asp Leu Asp Leu Glu His Ser Gln Ser Lys Arg Leu
20 25 30
Arg Pro Ser Lys Pro Asp Val Lys Tyr Leu Pro Glu Asn Tyr Asp Gln
35 40 45
Ala Asp Pro Arg Asp Leu Val Ile Leu Ile Ser Ser Met Leu Met Glu
50 55 60
Leu Ile Arg Phe Asn Asp Lys Ile Pro Leu Asn Asn Gly Arg Leu Thr
65 70 75 80
Arg Phe His Ser Arg Ser Pro Pro Arg Ile Ser Val Gln Asp Tyr Leu
85 90 95
Gln Arg Leu Thr Thr His Ala Thr Leu Ser Pro Pro Ile Leu Leu Ser
100 105 110
Met Val Tyr Tyr Ile Asp Arg Leu Cys Ala Leu Tyr Pro Ala Phe Thr
115 120 125
Val Ser Ser Leu Thr Ile His Arg Phe Leu Ile Ala Ser Ala Thr Val
130 135 140
Ala Ser Lys Gly Leu Ser Asp Ser Phe Trp Thr Asn Lys Thr Tyr Ala
145 150 155 160
Arg Val Gly Gly Ile Ser Met Ala Glu Leu Ala Leu Leu Glu Leu Glu
165 170 175
Phe Leu Phe Arg Val Glu Trp Arg Ile Val Pro Gln Pro Glu Val Leu
180 185 190
Val Asp Tyr Tyr Gln Ser Leu Val Glu Arg Cys Asp Gly Tyr Glu Ile
195 200 205
Gln Arg Glu Arg
210

<210> 23748
<211> 92

<212> PRT
<213> A.fumigatus

<400> 23748
Gly Gly Asn Gly Val Asp Leu Leu Cys Ile Thr Gly Arg Cys Ala Thr
1 5 10 15
Phe Leu Leu Ile Leu Val Gln Ser Asn Ala Leu Gly Leu Phe Phe Gly
20 25 30
Leu Val Thr Thr Phe Phe Leu Cys Phe Tyr Asp Leu Ala Asp Tyr Leu
35 40 45
Val Ile Leu Leu Tyr Ser Phe Thr Gln Phe Phe Gly Arg Ser Ile Val
50 55 60
Thr Ser Val Trp Ile Ile Ile Leu Pro Asp His Leu Asp Ser Ile Ser
65 70 75 80
Ser Tyr Val Tyr Ser Gln Ile Arg Ser Phe Arg Trp
85 90

<210> 23749
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23749
Thr Asp Arg Leu Thr Ser Gly His Leu Phe Ser Leu Ser Gly Ile Ile
1 5 10 15
Phe Arg Tyr Met Ser Met Ala Asn Phe Gly Lys Gln Asp Asn Ser Gly
20 25 30
Ile Leu Arg Thr Val Leu Arg Xaa Arg Glu Thr Thr Ser Val Phe Ser
35 40 45
Lys Ser Leu Thr Ser Leu Phe Leu Leu Met Ile Pro Arg Leu
50 55 60

<210> 23750
<211> 127
<212> PRT
<213> A.fumigatus

<400> 23750
Leu Pro Leu Pro Ser Ala Val Leu Arg Pro Cys Gly Lys Asp His Ala
1 5 10 15
Met Ile Asn Ser Gln Ala His Gln Leu Lys Asp Leu Ala Glu Glu Arg
20 25 30
Thr His His Ala Thr Gly Leu Val Lys Gln Tyr Val Gly Asp Tyr Ser
35 40 45
Ala Lys Ala Gln Glu Tyr Ile Gly His Arg Arg Ser Thr Ser Pro Glu
50 55 60
Ala Thr Lys Ala Ala Gly Pro Val Val Lys Lys Glu Pro Ser Ala Glu
65 70 75 80
Ala Ile Val Lys Gln Glu Pro Ile Pro Glu Pro Val Ile Lys Thr Thr
85 90 95
Asp Phe Pro Glu Ala Pro Lys Gln Glu Pro Val Ala Glu Pro Ile Glu

```
            100                 105                 110
His Asn Arg Gln Pro Leu Glu Thr Arg Glu Pro Leu Leu Ala Ala
        115                 120                 125
```

<210> 23751
<211> 99
<212> PRT
<213> A.fumigatus

<400> 23751

```
Tyr Pro Gln Glu Thr Pro Lys Ser Pro Leu Asn Gly Ser Glu Gly Phe
1               5                   10                  15
Phe Glu Pro Asp Lys Val Ser Met Phe Gly Arg Pro Phe Ser Leu Asp
            20                  25                  30
Asp Ala His Thr Gln Phe Phe Arg Tyr Gly Lys Trp Gly Tyr Asn Thr
        35                  40                  45
Ile Arg Tyr Val Leu Thr Trp Glu Ala Ile Glu His Glu Gly Pro Gly
    50                  55                  60
Lys Tyr Asp Asp Glu Trp Ile Ser Phe Thr Ile Glu Val Leu Arg Ile
65                  70                  75                  80
Ala Lys Gln Tyr Gly Phe Tyr Val Phe Leu Asp Pro His Gln Asp Val
                85                  90                  95
Val Cys Phe
```

<210> 23752
<211> 315
<212> PRT
<213> A.fumigatus

<400> 23752

```
Ser Ala Ser Gly Cys Cys Met Phe Leu Met Lys Pro Thr Pro Arg Lys
1               5                   10                  15
Glu Arg Cys Val Ala Asp Asn Leu Lys Trp Ser Arg Leu Ser Gly Gly
            20                  25                  30
Ser Gly Ala Pro Ala Trp Thr Leu Tyr Ala Ala Gly Phe Asp Pro Arg
        35                  40                  45
Gly Phe Lys Lys Thr Glu Ala Ala Leu Val Gln Asn Thr Phe Asp Asp
    50                  55                  60
Pro Ala Glu Phe Pro Lys Met Ile Trp Ser Thr Asn Tyr Thr Arg Leu
65                  70                  75                  80
Val Ser Gln Thr Met Phe Thr Leu Phe Tyr Gly Gly Arg Asp Phe Ala
                85                  90                  95
Pro Lys Ala Ile Ile Asp Gly Ile Asn Ile Gln Asp Tyr Leu Gln Gly
            100                 105                 110
His Phe Ile Ala Ala Cys Arg Tyr Phe Ala Gln Lys Ile His Glu Ala
        115                 120                 125
Gly Asp Ile Glu Asn Glu Val Val Ile Gly Trp Glu Ser Met Asn Glu
    130                 135                 140
Pro Asn Arg Gly Leu Ile Gly Val Gln Asp Ile Ser Val Ile Pro Pro
145                 150                 155                 160
Glu Gln Gln Leu Gln Leu Gly Thr Ser Pro Thr Ala Phe Gln Gly Met
                165                 170                 175
Leu Thr Gly Ser Gly Arg Ala Cys Glu Glu Ser Thr Trp Ala Phe Gly
            180                 185                 190
Gly Phe Gly Pro Tyr Gln Thr Gly Arg Glu Leu Val Asp Pro Glu Gly
```

```
        195                 200                 205
Glu Thr Ala Trp Leu Pro Ala Asp Tyr Asp Asp Thr Arg Tyr Gly Trp
    210                 215                 220
Val Arg Asp Pro Gly Trp Lys Leu Gly Glu Cys Leu Trp Ala Gln His
225                 230                 235                 240
Gly Val Trp Asp Pro Ser Ser Asp Lys Leu Leu Arg Lys Asp Tyr Phe
                245                 250                 255
Ala Lys Asn Pro Gln Thr Gly Glu Pro Leu Asn Tyr Asp Lys Phe Thr
            260                 265                 270
Asn Pro Tyr Phe Met Glu His Tyr Arg Ala Tyr Arg Asp Ala Leu Arg
        275                 280                 285
Ser Val Trp Pro Glu Ala Ile Ile Phe Cys Pro Pro Pro Val Ser Ser
    290                 295                 300
Pro Arg Gly Trp Lys Asp Pro Arg Trp Arg Lys
305                 310                 315

<210> 23753
<211> 135
<212> PRT
<213> A.fumigatus

<400> 23753
Glu Arg Ile Lys Ser Ser Leu Ser Phe Leu Cys Ser Cys Val Pro Val
1               5                   10                  15
Phe Leu His Ser Cys Ile Pro Ala Phe Leu Pro Ala Ile Gln Gln Ser
            20                  25                  30
Lys Ala Ala Val Ala Leu Leu Leu Ser Leu Pro Pro Ser Arg Ser His
        35                  40                  45
Pro Cys Arg Ser Phe Pro Ser Pro Pro Asn Leu His Thr Met Ala Pro
    50                  55                  60
Leu Lys Leu Asn Ser Arg Asn Leu Ser Gln Ile Ala Ala Ala Gly Gly
65                  70                  75                  80
Ala Leu Val Lys Ile Pro Thr Tyr Gln Arg Gly Arg Ala Val Lys Glu
                85                  90                  95
Gly Ile Val His Ile Gly Val Gly Gly Phe His Arg Ala His Leu Ala
            100                 105                 110
Val Tyr Ile Asp Gln Leu Ser Thr Lys His Glu Gly Leu Arg Pro Ala
        115                 120                 125
Asp Ala Lys Gln Ala Pro Arg
    130                 135

<210> 23754
<211> 190
<212> PRT
<213> A.fumigatus

<400> 23754
Leu Phe Asn Ser Thr Gly Ala Lys Cys Leu Pro Ala Ser Gln Val Ser
1               5                   10                  15
Lys Ala Arg Gly Leu Val Leu His Asp Trp His Ala Glu Val Leu Ala
            20                  25                  30
Leu Arg Ser Phe Asn Tyr Trp Leu Leu Ser Glu Cys His Ser Leu Leu
        35                  40                  45
Ala Gln Glu Gln His Ala Arg Ser Ser Ser Thr Asn Thr Pro Gly Ala
    50                  55                  60
Ala Ser Ser Pro Phe Ile Arg Arg Arg Lys Ser Ala Glu Arg Pro Ser
```

65 70 75 80
Thr Ala Gln Ser Glu Pro Ala Pro Ala Trp Pro Pro Phe Glu Leu Gln
85 90 95
Pro Asp Ile Lys Ile Tyr Met Tyr Cys Thr Cys Ala Pro Cys Gly Asp
100 105 110
Ala Ser Met Glu Leu Cys Met Ala Ala Gln Asp Asp Pro Arg Pro Trp
115 120 125
Asp Val Ala Pro Gly Pro Glu Arg Thr Glu Ser Pro Gly Pro Gly Pro
130 135 140
Glu Leu Leu Asp Gly Arg Gly Tyr Phe Ser Arg Leu Gly Ile Val Arg
145 150 155 160
Arg Lys Pro Ala Arg Ala Glu Pro Glu Pro Thr Leu Ser Asn Ser Cys
165 170 175
Ser Glu Gln Leu Ala Leu Arg His Val Ser Ser Pro Leu Ser
180 185 190

<210> 23755
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23755
Ala Ser Leu Gly Val Ser Glu Gly Thr Pro Tyr Asn Leu Val Pro Ser
1 5 10 15
Thr Lys Glu Val Ala Asn Ala Val Arg Thr Arg Val Tyr Cys Thr Thr
20 25 30
Ile Tyr Trp Gln Lys Ile Asn Ile Leu Glu Asn Asn Val Gln Val Leu
35 40 45
Gln Lys Arg Ile Phe His Cys Thr Thr Tyr Arg Leu Ser Asn Val Glu
50 55 60
Arg Ser Ile His Asn Tyr Ser Phe Val Trp His Lys Ser Cys Ser His
65 70 75 80
Pro Ile Asn Ala Tyr Asp Cys Ser
85

<210> 23756
<211> 264
<212> PRT
<213> A.fumigatus

<400> 23756
Phe Leu Glu Gln Ser Thr Val Phe Asp Asp Leu Ala His Gln Ile Val
1 5 10 15
His Gln Thr Thr Leu Ser Leu His Gln Ala Ser Ala Gln Ile Ser Ser
20 25 30
Lys Ser Thr Ala Asp Gly Lys Leu Phe Leu Met Ser His Leu Leu Ile
35 40 45
Leu Lys Gln Gln Ile Val Ala Phe Asp Ile Glu Tyr Val Ala Pro Glu
50 55 60
Val Ser Phe Asp Phe Ser Gly Ile Thr Asn Thr Phe Trp Glu Leu Arg
65 70 75 80
Glu Arg Gly Gly Leu Phe Asn Pro Arg Asn Leu Met Arg Leu Val Gly
85 90 95
His Gly Leu Leu Pro Arg Val Val Glu Asn Met Leu Asp Ala Lys Val
100 105 110
Glu Leu Asp Gly Arg Leu Arg Thr Val Ile Asn Asp Phe Ile Asn Glu

```
        115                 120                 125
Phe Ala Thr Lys Met Thr Ala Ser Leu Pro Ala Lys Phe Ile Asp Arg
    130                 135                 140
Arg Asn Leu Gln Gln Gly Glu Leu Ile Tyr Pro Thr Cys Gln Asn Ile
145                 150                 155                 160
Glu Lys Glu Val Pro Asn Leu Arg Lys Ile Leu Gly Asp Tyr Leu Asp
                165                 170                 175
Asp Pro Arg Met Lys Glu Thr Leu Val Gly Ala Val Gln Asp Arg Val
            180                 185                 190
Ile Gln Ile Tyr Glu Asp Phe Phe Asp Arg Tyr Thr Ser Ser Glu Arg
        195                 200                 205
Ser Lys Gly His Ser Val Ser Lys Lys Gly Lys Gly Arg Glu Asp Ala
    210                 215                 220
Val Trp Asp Val Gly Ser Phe Ala Glu Trp Cys Glu Asn Ile Phe Arg
225                 230                 235                 240
Val Gly Ile Pro Glu Gln Asp Asp Glu Gly Leu Pro Ser Gly Ser Leu
                245                 250                 255
Ser Arg Ser Gly Ser Pro Gly Ser
            260
```

<210> 23757
<211> 155
<212> PRT
<213> A.fumigatus

<400> 23757

```
Asn Ile Pro Ala Thr Pro Lys Glu Ser Lys Pro Val Trp Thr Leu Gln
1               5                   10                  15
Ala His Asp Thr Ser Val Ser Ser Phe Asp Ile Asn Pro Ala Ile Pro
            20                  25                  30
Gly Phe Leu Val Thr Gly Ser Thr Asp Lys Gln Val Lys Leu Trp Asn
        35                  40                  45
Val Glu Asn Gly Arg Pro Ser Met Val Val Ser Arg Lys Met Asp Val
    50                  55                  60
Gly Lys Val Phe Ser Thr Thr Phe Ala Pro Asp Asn Glu Val Gly Phe
65                  70                  75                  80
Arg Leu Ala Val Ala Gly Ser Lys Gly Thr Val Gln Ile Trp Asp Thr
                85                  90                  95
Ser Thr Asn Gly Ala Val Arg Arg Ala Phe Val Ser Arg Met Pro Ala
            100                 105                 110
Leu Glu Gly Glu Val Lys Glu Arg Thr Ile Gly Val Gln Ala Asp Asp
        115                 120                 125
Asp Glu Ser Asp Asp Asp Ala Ala Gly Glu Glu Ile Gly Ala Gln Gln
    130                 135                 140
Gly Gly Asp Gly Trp Glu Ser Met Asp Glu Asp
145                 150                 155
```

<210> 23758
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23758

```
Asn Lys Thr Phe Arg Phe Ala Tyr Lys Asp Ser Cys Trp Ser Arg Cys
1               5                   10                  15
Leu Asn Leu Arg Phe Ile Ala Glu Tyr Ala Val Ile Ala Tyr Asp Ser
```

```
            20                  25                  30
Glu Gly Thr Val Ser Leu Ala Ala Thr Ser Pro Ala Ser Ile Leu Lys
        35                  40                  45
Leu Pro Val Val Asn Leu Leu His Val Lys Ile Val Glu Leu Ser Val
    50                  55                  60
Asp Ser Ser Met Ser Gln Ser Asn Thr Thr Gly His Ala Thr Gln Leu
65                  70                  75                  80
Ser Pro
```

<210> 23759
<211> 201
<212> PRT
<213> A.fumigatus

<400> 23759

```
Ile Leu Cys Arg Lys Glu Ile Asn Tyr Val Lys Met Ser Gln Lys Glu
1               5                   10                  15
Arg Glu Gln Leu Thr Ala Glu Phe Asn Ile Leu Ser Ser Leu Arg His
            20                  25                  30
Pro Asn Ile Val Ala Tyr Tyr His Arg Glu His Leu Lys Ala Ser Gln
        35                  40                  45
Asp Leu Tyr Leu Tyr Met Glu Tyr Cys Gly Gly Gly Asp Leu Ser Met
    50                  55                  60
Val Ile Lys Asn Leu Lys Lys Thr Asn Lys Tyr Ala Glu Glu Glu Phe
65                  70                  75                  80
Val Trp Arg Ile Leu Ser Gln Leu Val Thr Ala Leu Tyr Arg Cys His
                85                  90                  95
Tyr Gly Ala Asp Pro Val Glu Val Gly Ser Asn Ile Leu Gly Pro Ala
            100                 105                 110
Pro Lys Pro Ser Gly Leu Lys Gly Lys Gln Ala Gln Met Thr Ile Leu
        115                 120                 125
His Arg Asp Leu Lys Pro Glu Asn Ile Phe Leu Gly Ser Asp Asn Thr
    130                 135                 140
Val Lys Leu Gly Asp Phe Gly Leu Ser Lys Leu Met His Ser His Asp
145                 150                 155                 160
Phe Ala Ser Thr Tyr Val Gly Thr Pro Phe Tyr Met Ser Pro Glu Ile
                165                 170                 175
Cys Ala Ala Glu Lys Tyr Thr Leu Arg Ser Asp Ile Trp Ala Val Gly
            180                 185                 190
Cys Ile Met Tyr Val Phe Thr Thr Gly
        195                 200
```

<210> 23760
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23760

```
Asn Leu Ile Ser Asn Lys Thr His Thr Gly Cys Gly Ser Phe Gly Ile
1               5                   10                  15
Ile Arg Lys Val Lys Arg Lys Ser Asp Gly Phe Val Arg Thr Arg Phe
            20                  25                  30
Lys Phe Val Thr Leu Val Leu Gly Leu Ile Asn Lys Leu Asp Thr Val
        35                  40                  45
Ser Gln Arg Asn Gln Leu Arg Gln Asn Val Ala Glu Gly Ala Arg Thr
```

```
    50                  55                  60
Ala His Cys Arg Ile Gln His Pro Glu Leu Pro Pro Thr Pro Glu His
65                  70                  75                  80
Arg Arg Leu Leu Pro Ser
                85
```

<210> 23761
<211> 107
<212> PRT
<213> A.fumigatus

<400> 23761

```
Thr Thr Ser Phe Leu Phe Leu Ile Ser Ile Leu Phe Gln Leu Leu Tyr
1               5                   10                  15
Ala Arg His His Lys Arg Glu Lys Arg Phe Gly Pro Ser Pro Ala Asn
            20                  25                  30
Gly Tyr Thr Tyr Gly Thr Gly Thr Gln Arg Arg Gly Phe Trp Arg Arg
        35                  40                  45
Asn Lys Arg Thr Pro Glu Thr Ala Ser Ala Asp Asp Met Leu Pro Gly
    50                  55                  60
His Pro Thr Pro His Asp Val Glu Met Gly Asp Ser Ala Glu Lys Pro
65                  70                  75                  80
Gly Ala Phe Gly Gly Arg Phe Ser Arg Asn Asn Asn Ala Val Ala Asn
                85                  90                  95
Gly Tyr Gly Gly Ser Ala Tyr Thr Gly Asn Tyr
            100                 105
```

<210> 23762
<211> 118
<212> PRT
<213> A.fumigatus

<400> 23762

```
Pro Ile Ser Pro His Lys Cys Glu Tyr Gln Pro Pro Val Phe Ser Ile
1               5                   10                  15
Pro Arg Val Glu Ser Gly Asn Lys Pro Gln Ile Glu Ser Gln Ala Lys
            20                  25                  30
Pro Gln Phe Gly Tyr Lys Arg Glu Pro Glu Ser Pro Pro Lys Pro Lys
        35                  40                  45
Pro Lys Asn Asn Pro Val Pro Glu His Ala Pro Glu Pro Lys Pro Ser
    50                  55                  60
Glu Thr Ala His Ala Gln Gly Phe Ser Lys Thr Cys Glu His Gly Glu
65                  70                  75                  80
Ile Leu Cys Gly Ala Asp Gly Gln Thr Trp Ala Lys Cys Asp Trp Gly
                85                  90                  95
Lys Pro Val Gln Met Gly Pro Val Ala Ala Gly Thr Arg Cys Ser His
            100                 105                 110
Gly Val Ile Glu Arg Thr
        115
```

<210> 23763
<211> 78
<212> PRT
<213> A.fumigatus

<400> 23763

```
Ile Lys Ala Gln Thr Val Lys Ala Ser Ala Leu Asn Ser Arg Gln Thr
1               5                   10                  15
Ser Leu Ser Pro Ile Leu Pro Ile Tyr Leu Leu Ala Ile Ser Tyr Asn
            20                  25                  30
Ser Ser Leu Ser Ala Cys Pro Ser Ile Thr Glu Lys Gly Arg Pro Pro
        35                  40                  45
Gly Ile Ile Glu Gln Tyr Pro Arg Pro Leu Asp Asp Ile Phe His Val
    50                  55                  60
Pro Val Pro Gly Leu Asp Gln Thr Ser Ser Ile Gly Ala Ile
65                  70                  75
```

<210> 23764
<211> 66
<212> PRT
<213> A.fumigatus

```
<400> 23764
Ser Val Leu Leu Leu Leu Gly Pro Asn Leu Val Tyr Asn His Thr Pro
1               5                   10                  15
Glu Ile Gln Phe Asp Asn Asn Ser Ser His Phe Asp Arg Ala Ile Trp
            20                  25                  30
Arg Lys Cys Arg Thr Ala Thr Ile Arg Ser Arg Leu Pro Leu Leu Asn
        35                  40                  45
Ala Trp Thr Leu Asp Phe Gly Pro Cys Asn Thr Ala Thr Arg Lys Gly
    50                  55                  60
Leu Ser
65
```

<210> 23765
<211> 63
<212> PRT
<213> A.fumigatus

```
<400> 23765
Tyr Leu Ser Glu Tyr Ala Ile Tyr Asp Cys Arg Gly Ile Tyr Val Leu
1               5                   10                  15
Lys Leu Ser Asp Val Met Ala Thr Gln Ala Tyr Ser Asp Phe Ile Val
            20                  25                  30
Gly Gln Ala Leu His Gly Lys Ala Thr Phe Leu Arg Gly Glu Trp Glu
        35                  40                  45
Ile Ala Tyr Ile Asp Arg Tyr Lys Ala Arg Gln Ser Leu Ser Asp
    50                  55                  60
```

<210> 23766
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (34)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23766
Cys Gly Leu Ser Gly Arg Ala Arg Tyr Ile Phe Ile Thr Met His Pro
1               5                   10                  15
```

```
Pro Arg Leu Asp Phe Ser Gly Ala Pro Asp Asn Asp Pro Thr Leu Leu
            20                  25                  30
Met Xaa Asp Gln Ser Leu Phe Gly Ser Val Arg Pro Gly Asp Trp Ile
        35                  40                  45
His Gln Ala Cys Leu Arg Phe Tyr Val Asp Leu Met Ile Ser Val Ala
    50                  55                  60
```

<210> 23767
<211> 65
<212> PRT
<213> A.fumigatus

<400> 23767

```
His Gly Pro Glu Glu Ala Thr Asp Pro Val Thr Arg Thr Leu His Asn
1               5                   10                  15
Pro Ser Gln Ser Tyr Ala Asp His Thr Lys Glu Ser Gly Ser Ser Val
            20                  25                  30
Ala Glu Lys Ile Ala Glu Ala Met Gln Pro Gly Ser Tyr Leu Leu Ser
        35                  40                  45
Arg Gly Glu Ala Leu Pro Asp Gly Ala Leu Ile Leu Val Ser Cys Arg
    50                  55                  60
Arg
65
```

<210> 23768
<211> 203
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (20),(22),(41),(71)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23768

```
Val Pro Leu Phe Ala Pro Val Trp Thr Leu Thr Thr Leu Tyr Thr Phe
1               5                   10                  15
Leu Leu Gln Xaa Tyr Xaa Pro Gly Asp Pro Pro Pro Pro Lys Ile Asp
            20                  25                  30
Asn Ile Leu Asp Ile Ile Lys Met Xaa Thr Gln His Arg Ile Leu Ala
        35                  40                  45
Leu Val Tyr Asn Glu Phe Glu Ala Leu Asp Leu Phe Gly Pro Leu Gly
    50                  55                  60
Ala Ile Val Pro Arg Ser Xaa Tyr Tyr Thr Leu Ala Leu Val Ser Leu
65                  70                  75                  80
His Asn Leu Asp Ser Pro His Gly Val Glu Thr Ser Met Lys Asn Gly
                85                  90                  95
Ile Gly Val Ile Pro Thr Leu Ser Leu Ala Glu Ala Leu Arg Glu Asp
            100                 105                 110
Gln Gln Phe Asp Thr Leu Phe Ile Pro Gly Gly Phe Gly Met Met Pro
        115                 120                 125
Leu Val Trp Asp Pro Ile Leu Leu Gln Arg Ile Gly Gln Leu Val Asp
    130                 135                 140
Arg Ala Pro Asn Val Phe Ser Val Cys Thr Gly Ser Ile Leu Leu Ala
145                 150                 155                 160
Ala Thr Gly Arg Leu Asp Gly Arg Lys Ala Thr Thr Asn Lys Arg Leu
```

```
                165                 170                 175
Tyr Asp Glu Leu Thr Pro Lys Arg Ile Ile Pro Pro Ser Cys Phe Gln
            180                 185                 190
Ile Ser Arg Ala His Ala Asn Ile Phe Phe Phe
        195                 200
```

<210> 23769
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23769

```
Pro His Ser Ala Thr Ala Asp Pro Ser Ser Pro Val Val Lys Thr Lys
1               5                   10                  15
Glu Tyr Glu Leu Asp Leu Ser Phe Ala Gln Gly Tyr Thr Ser Lys Cys
            20                  25                  30
Thr Leu Ser Thr Ile Leu Ala Ala Trp Ser Val Thr Asp Thr Thr Glu
        35                  40                  45
Leu Asn Pro Ser Gly Tyr Ser Arg Leu Leu Tyr Thr
    50                  55                  60
```

<210> 23770
<211> 76
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (67)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23770

```
Ser Arg Arg Leu Val Ser Arg Phe Pro Glu His Met Leu Thr Phe Phe
1               5                   10                  15
Phe Phe Asn Arg Leu Asp Pro Gly Val Gln Trp Gln Lys Arg Ala Arg
            20                  25                  30
Trp Val Gln Asp Gly Lys Phe Leu Thr Ser Ser Gly Val Thr Ala Gly
        35                  40                  45
Ile Asp Ala Gly Phe Ala Phe Leu Ala Ser Thr Tyr Val Ala Pro Glu
    50                  55                  60
Asp Arg Xaa Gly Ala Phe Pro Lys Thr Pro Pro Gly
65                  70                  75
```

<210> 23771
<211> 88
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6),(36),(55),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23771

```
Arg Gln Arg Val Val Xaa Ala Ala Gly Asp Asp Gly Ala Gln Trp Ala
1               5                   10                  15
```

```
Glu Lys Ile Glu Gly Phe Glu Leu Val Val His Lys Ser Lys Asp Ala
            20                  25                  30
Val Leu Ser Xaa His Phe Asp Tyr Val Gln Tyr Ile Val Tyr Phe Gly
        35                  40                  45
Gly Gly Gly Val Ser Trp Xaa Val Xaa Leu Glu Glu Glu Gly Ile Gln
    50                  55                  60
Arg Gly Glu Ser Pro Asp Arg Gly Lys Gln Trp His Leu Ser His Val
65                  70                  75                  80
Arg Cys Arg Cys Leu Gly Ala Pro
                85
```

<210> 23772
<211> 153
<212> PRT
<213> A.fumigatus

```
<400> 23772
Thr Gly Ser Arg Leu Leu Met Leu Leu Ser Gly Ile Ala Pro Lys Lys
1               5                   10                  15
Glu Lys Lys His Gly Gln Ala Ile Gln Pro Thr Ala Asp Cys Ala Leu
            20                  25                  30
Ala Ser Ala Ser Ser Gln Pro Gly Leu Leu His Asn Ile Glu Leu Gln
        35                  40                  45
Glu Thr Pro Phe Met Gln Val Leu Phe Ile Leu Leu Leu Leu Leu Ser
    50                  55                  60
Ile Tyr Arg Ser Cys Leu Ser Ser Arg Asp Gly Lys Pro Ile Ala Ser
65                  70                  75                  80
Ser Leu Asn Arg Arg Arg Gln Cys Trp Glu Cys Arg Arg Arg Arg Leu
                85                  90                  95
Val Cys Asp Phe Ser Leu Pro Gly Cys Arg Lys Cys Tyr Thr Ala Gly
            100                 105                 110
Val Glu Cys Pro Gly Tyr Asp Glu Lys Lys Pro Leu Lys Trp Val Thr
        115                 120                 125
Thr Cys Glu Val Asp Ile Pro Ala Ser Glu Glu Asp Cys Ser Ala Glu
    130                 135                 140
Tyr Cys Gln Ala Val Cys Val Arg Arg
145                 150
```

<210> 23773
<211> 206
<212> PRT
<213> A.fumigatus

```
<400> 23773
Arg Ile Gly Ile Phe Gln Pro Leu Ala Lys Thr Thr Ser Ser Gly Leu
1               5                   10                  15
Pro Ser Ser Pro Val Asn Val Leu Pro Phe Asn Leu Ser Ile Thr Ser
            20                  25                  30
Ser Gly Asn Pro Ser Asn Ile Ser Val Arg Thr Ala Pro Gly Ala Thr
        35                  40                  45
Thr Phe Thr Leu Thr Gly Ala Arg Ser Thr Ala Asn Pro Arg Pro Ser
    50                  55                  60
Pro Leu Ile Ala Phe Pro Ser Ile Ala Pro Thr Leu Tyr Pro Gly Gly
65                  70                  75                  80
Gly Arg Ile Ala Thr Ala Pro Leu Val Asn Val Ser Glu Asp Arg Ala
                85                  90                  95
```

```
Asp Cys Thr Met Tyr Val Gly Thr Cys Phe Ala Ser Ile Arg Pro Pro
            100                 105                 110
Arg Ser Arg Thr Val Val Arg Ala Arg Met Tyr Ala Gly Ser Arg Ala
        115                 120                 125
Gly Ser Val Gly Gly Arg Ile Trp Arg Ala Ser Pro Ala Val Lys Thr
    130                 135                 140
Ile Trp Ser Arg Arg Thr Phe Ser Leu Leu Pro Gly Val Ser Ala Leu
145                 150                 155                 160
Leu Gly Glu Arg Leu Val Gly Lys Arg Ser Gly Cys Val Ala Leu Ser
                165                 170                 175
Ser Lys Val Lys Met Phe Asp Ser Lys Val Asp Ser Ser Pro Arg Ser
            180                 185                 190
Thr Val Val Pro Ala Ile Leu Val Val Asn Cys Ser Ser Gly
        195                 200                 205
```

<210> 23774
<211> 300
<212> PRT
<213> A.fumigatus

```
<400> 23774
Tyr Gln Thr Asp Leu Ser Asp Ser Leu Ser Val Gln Asp Ser Pro Ile
1               5                   10                  15
Ser Ser Tyr Ile Asn Ser Pro Ser Thr Tyr Lys Gly Ile Ser Thr Met
            20                  25                  30
Thr Thr Gln Thr Pro His Leu Val Ser Ile Asn Lys Leu Thr Gly Thr
        35                  40                  45
Arg Val Leu Val Ile Gly Gly Thr Ser Gly Leu Gly Phe Ala Val Ala
    50                  55                  60
Arg Ala Ala Leu Glu His Gly Ala Ser Val Leu Val Ala Ser Ser Arg
65                  70                  75                  80
Pro Glu Lys Val Gln Ser Ala Val Ser Arg Leu Arg Thr Leu Tyr Pro
                85                  90                  95
Asp Glu Gln Phe Thr Thr Arg Ile Ala Gly Thr Thr Val Asp Leu Gly
            100                 105                 110
Asp Glu Ser Thr Leu Glu Ser Asn Ile Leu Thr Leu Leu Asp Lys Ala
        115                 120                 125
Thr Gln Pro Asp Leu Phe Pro Thr Asn Leu Ser Pro Asn Asn Ala Asp
    130                 135                 140
Thr Pro Gly Lys Ser Glu Lys Val Leu Leu Asp His Ile Val Phe Thr
145                 150                 155                 160
Ala Gly Asp Ala Leu Gln Ile Arg Pro Pro Thr Asp Pro Ala Leu Asp
                165                 170                 175
Pro Ala Tyr Ile Arg Ala Leu Thr Thr Val Arg Leu Leu Gly Gly Leu
            180                 185                 190
Met Leu Ala Lys His Val Pro Thr Tyr Met Val Gln Ser Ala Arg Ser
        195                 200                 205
Ser Leu Thr Leu Thr Ser Gly Ala Val Ala Met Arg Pro Pro Pro Gly
    210                 215                 220
Tyr Ser Val Gly Ala Met Leu Gly Asn Ala Ile Asn Gly Leu Gly Arg
225                 230                 235                 240
Gly Leu Ala Val Asp Leu Ala Pro Val Arg Val Asn Val Val Ala Pro
                245                 250                 255
Gly Ala Val Arg Thr Glu Met Phe Asp Gly Leu Pro Glu Glu Val Ile
            260                 265                 270
Glu Arg Leu Lys Gly Arg Thr Leu Thr Gly Glu Leu Gly Arg Pro Glu
```

```
        275                 280                 285
Asp Val Val Phe Ala Lys Gly Trp Lys Ile Pro Ile
    290                 295                 300

<210> 23775
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23775
Gly Val Val Ile Val Asn Thr Ala Arg Gly Ala Leu Ile Asp Glu Lys
1               5                   10                  15
Ala Leu Val Ala Ala Leu Asp Ser Gly Lys Val Ser Ser Ile Leu Ala
            20                  25                  30
Tyr Phe Leu Glu Leu Trp Val Val Thr Glu Cys Asp Arg Ser Cys Arg
        35                  40                  45
Leu Val Trp Met Cys Met Arg Thr Ser Arg Arg Ser Asn Leu Asp Leu
    50                  55                  60

<210> 23776
<211> 76
<212> PRT
<213> A.fumigatus

<400> 23776
Ile Ile Pro Thr Pro Ser Phe Pro Leu Cys Tyr Met Arg Arg Gly Gly
1               5                   10                  15
Ile Arg Asn Trp Thr Trp Phe Ser Leu Met Leu Gly Leu Cys Leu His
            20                  25                  30
Gln Val Arg Tyr Ala Ala Gln Asp Ile Pro Ala Ala Lys Ser Ala Arg
        35                  40                  45
Ala Arg Gly Ser Tyr Leu Arg Val Ser Phe Lys Asn Thr Arg Glu Thr
    50                  55                  60
Ala Gln Ala Ile Asn Gly Met Lys Leu Gln Arg Ala
65                  70                  75

<210> 23777
<211> 85
<212> PRT
<213> A.fumigatus

<400> 23777
Val Met Gly Ser Asn Gly Met Arg Gln Val Met Ser Ala Gly Leu Asp
1               5                   10                  15
Val Tyr Glu Asn Glu Pro Glu Ile Glu Pro Gly Leu Val Asn Asn Pro
            20                  25                  30
Arg Val Met Leu Leu Pro His Ile Gly Thr Ala Thr Tyr Glu Thr Gln
        35                  40                  45
Lys Glu Met Glu Leu Leu Val Leu Asn Asn Leu Arg Ser Ala Val Glu
    50                  55                  60
Lys Gly Glu Met Ile Thr Leu Val Pro Glu Gln Lys Asp Ile Phe Lys
65                  70                  75                  80
Gly Gln Asn Gly Lys
                85

<210> 23778
```

<211> 320
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (314)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23778

```
Ser Asn Arg Arg Gly His Gly Thr Tyr Ser Asn Pro Leu Ser Thr Ser
1               5                  10                  15
Ile Ile Ala Thr Val Ala Gly Thr Val Gln Lys Thr Asn Lys Leu Leu
            20                  25                  30
Ser Val Gln Pro Leu Arg Ala Arg Tyr Ile Pro Glu Ile Gly Asp Leu
        35                  40                  45
Val Val Gly Arg Ile Val Glu Val Gln Ser Arg Arg Trp Lys Val Asp
    50                  55                  60
Ile Ala Ala Pro Leu Leu Ala Gln Leu Pro Leu Ser Ala Ile Asn Leu
65                  70                  75                  80
Pro Gly Gly Ile Leu Arg Arg Arg Thr Ser Ala Asp Glu Leu Gln Ile
                85                  90                  95
Arg Thr Phe Phe Ser Glu Gly Asp Leu Val Val Ala Glu Val Gln Ser
            100                 105                 110
Val His Ser Asp Gly Ser Ala Ser Leu His Thr Arg Ser Leu Lys Tyr
        115                 120                 125
Gly Lys Leu Arg Asn Gly Val Phe Leu Ala Val Ala Gly Thr Gly Gly
    130                 135                 140
Ser Gly Ala Ser Ser Ser Thr Val Lys Gly Gly Pro Gly Ala Gly Thr
145                 150                 155                 160
Ala Ser Ala Gly Leu Leu Gly Thr Ser Gly Thr Gly Gly Val Val Arg
                165                 170                 175
Ala Arg Arg Gln Gln Trp Thr Val Asn Thr Ala Asn Gly Gly Gly Glu
            180                 185                 190
Val Asn Ile Ile Leu Gly Val Asn Gly Tyr Ile Trp Ile Ala Lys His
        195                 200                 205
Ala Asp Gly Ala Ala Ala Ala Ser Ser Thr Thr Glu Asn Val Ser Ile
    210                 215                 220
Thr Arg Met Glu Glu Met Val Ser Ser Ser Ile Tyr Ser Ser Gln Asn
225                 230                 235                 240
Asp Glu Ile Pro Pro Gln Thr Arg Arg Glu Ile Ala Arg Leu Ala Gln
                245                 250                 255
Cys Ile Arg Val Leu Val Gln Gly Gly Val Arg Val Asp Glu Glu Thr
            260                 265                 270
Val Met Arg Ala Tyr Asp Ala Ser Leu Gln Val Asp Leu Glu Val Gly
        275                 280                 285
Asp Asp Glu Asp Glu Asp Glu Arg Arg Arg Glu Gly Arg Glu Tyr Leu
    290                 295                 300
Glu Gly Ala Lys Ala Ser Gly Ile Leu Xaa Leu Ala Thr Val Ala Arg
305                 310                 315                 320
```

<210> 23779
<211> 246
<212> PRT
<213> A.fumigatus

<400> 23779
Ser Cys Ala Ser Ala Leu Ala Lys Asn Pro Asp Arg Phe Asp Val Thr
1 5 10 15
Leu Phe Asp Ile Ala Pro Cys Thr Gly Gly Gln Ala Thr Ser Ile Ser
20 25 30
Leu Asp Glu Ser Arg Tyr Gly Ala Asp Trp Leu Asn Asp Gly Val Gln
35 40 45
Gly Gly Ser Pro Ile Phe Arg His Thr Phe His Phe Phe Arg Arg Tyr
50 55 60
Gly Tyr Glu Pro Arg Pro Val Lys Leu Gln Val Ala Phe Gly Lys Gly
65 70 75 80
Val Glu Asn Phe Phe Thr Asn Val Phe Pro Ser Pro Leu Val Asp Gln
85 90 95
Leu Ser Gly Glu Ile Lys Lys Leu Gly Arg Val Leu Lys Trp Ile Lys
100 105 110
Arg Leu Phe Pro Ile Leu Gly Leu Leu Pro Ile Lys Val Ile Met Lys
115 120 125
Leu Phe Arg Phe Ser Glu Glu Phe Thr Asn Lys Met Val Ile Pro Ile
130 135 140
Met Ala Leu Phe Leu Gly Thr Gly Asn Gln Thr Pro Asn Val Ser Ala
145 150 155 160
Ala Leu Leu Glu Arg Leu Phe Cys Asp Pro Asn Met Arg Leu Trp Glu
165 170 175
Tyr Asp Pro Asp Thr Leu Leu Pro Asn Gln Pro Thr Met Tyr Thr Phe
180 185 190
Pro Lys Leu Gly Asp Phe Tyr Arg Asp Trp Ala Gly Asp Leu Ala Ser
195 200 205
Arg Gly Val Asp Ile Arg Leu Asn Thr Ala Val Glu Ile Leu Gln Arg
210 215 220
Asn Asn His Ser Ile Thr Leu Arg Pro Val Phe Ser His Gly Ala Arg
225 230 235 240
Arg Ser Ala Leu Ala Leu
245

<210> 23780
<211> 158
<212> PRT
<213> A.fumigatus

<400> 23780
Asp Leu Ser Arg Val Arg Ile Ser Thr Pro Thr Ser Pro Arg His Ile
1 5 10 15
Ser Ile Ile Ile Leu Ser Ser Arg Tyr Asn Trp Leu Leu Lys Ala Leu
20 25 30
Ser Ser Pro Leu Arg Thr Thr Tyr Ser Asp Thr Asn Pro Tyr Gln Leu
35 40 45
Leu Glu Leu Phe Asp Ser Glu Asp Pro Arg Glu Arg Asp Phe Leu Lys
50 55 60
Thr Thr Leu His Arg Ile Tyr Gly Lys Phe Leu Asn Leu Arg Ser Tyr
65 70 75 80
Ile Arg Arg Ser Ile Asn Asn Val Phe Phe Gln Phe Thr Tyr Glu Thr
85 90 95
Glu Arg Phe Asn Gly Ile Ala Glu Leu Leu Glu Ile Leu Gly Ser Ile
100 105 110
Ile Asn Gly Phe Ala Leu Pro Leu Lys Glu Glu His Lys Leu Phe Leu
115 120 125

```
Thr Arg Val Leu Leu Pro Leu His Lys Val Lys Ser Leu Ser Met Cys
    130                 135                 140
Leu His His Gly Ala Gly Arg Ile Arg Ser Val Arg His Asn
145                 150                 155

<210> 23781
<211> 133
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (39)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23781
Arg Gln Glu Leu Phe Met Gln Lys Ile Asp Gln Cys Asn Ile Ile Phe
1               5                   10                  15
Asp Phe Asn Asp Pro Thr Ala Asp Met Lys Ser Lys Glu Ile Lys Arg
            20                  25                  30
Leu Ala Leu His Glu Leu Xaa Asp Tyr Val Ala Asn Asn Arg Ser Val
        35                  40                  45
Ile Thr Glu Pro Met Tyr Pro Arg Val Val Glu Met Phe Ala Lys Asn
    50                  55                  60
Leu Phe Arg Pro Ile Pro Pro Pro Val Thr Pro Gln Gly Glu Ala Phe
65                  70                  75                  80
Asp Pro Glu Glu Asp Glu Pro Val Leu Glu Val Ala Trp Pro His Ile
                85                  90                  95
Gln Val Val Tyr Glu Phe Phe Leu Arg Phe Ile Glu Ser Gln Asp Phe
            100                 105                 110
Asn Thr Asn Ile Ala Lys Ala Tyr Ile Asp His His Phe Val Leu Gln
        115                 120                 125
Val Gln Leu Ala Pro
    130

<210> 23782
<211> 247
<212> PRT
<213> A.fumigatus

<400> 23782
Cys Gly Gln Ile Leu Pro Phe Leu Thr Pro Phe Leu Met Arg Cys Asn
1               5                   10                  15
Leu Ser Ala Pro Pro Ser Lys Asp Thr Thr Lys Lys Thr Asp Ala Asn
            20                  25                  30
Gly Gln Ala Gly Ala Asn Thr Asn Ile Pro Pro Pro Lys Thr Asp Lys
        35                  40                  45
Pro Arg Pro His Val Cys Thr Thr Cys Gly Arg Ser Phe Ala Arg Leu
    50                  55                  60
Glu His Leu Lys Arg His Glu Arg Ser His Thr Lys Glu Lys Pro Phe
65                  70                  75                  80
Glu Cys Pro Asp Cys Ser Arg Cys Phe Ala Arg Arg Asp Leu Leu Leu
                85                  90                  95
Arg His Gln Gln Lys Leu His Met Thr Thr Thr Pro Ser Ser Arg Pro
            100                 105                 110
Arg Asn Ala Arg Arg Glu Ser Thr Gly Ala Ala Gly Thr Gly Ala Asn
```

```
        115                 120                 125
Arg Val Arg Lys Asn Ser Ile Ala Ser Asn Ser Asn Ser Ile Arg Pro
    130                 135                 140
Arg Ala Asn Thr Ile Ser His Ile Asp Gly Ala Ser Leu Gly Ile Ala
145                 150                 155                 160
Thr Asn Asp Pro Asn His Ser Val Pro Ala Thr Gly His Pro Gly His
                165                 170                 175
Ala His His Thr Ser Met Ser Ser Met Ser Met Gly Ala Asn Ile Asp
            180                 185                 190
Phe His Arg Gly Tyr Ser Ser Ser His Pro Tyr Ser Ser Ser Leu Pro
        195                 200                 205
Lys Leu Glu Thr His Gly Leu Pro Met Asp Leu Ser Gly Gly Leu Arg
    210                 215                 220
Thr Ala Pro Val Tyr Gly Asn Phe Asp Leu Thr Met Gly Asp Phe Phe
225                 230                 235                 240
Met Asn Pro Trp Asp Tyr Asp
                245
```

<210> 23783
<211> 95
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30),(36),(39),(42),(46)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23783

```
Leu Ala Val Ile Pro Pro Pro Val Met Pro Pro Leu Arg Tyr Asn Pro
1               5                   10                  15
Pro Thr Asp Ser Met Leu Gly Arg Lys Thr Pro Ala Phe Xaa Leu Asp
            20                  25                  30
Glu Thr Ala Xaa Ile Pro Xaa Met Pro Xaa Pro Arg Ser Xaa Ala Pro
        35                  40                  45
Asn Ser Gly Ile Asp Glu Val Val Pro Pro Ser Ala Met Ser Thr Trp
    50                  55                  60
Gln Ala Lys Leu Gly Ile Thr Gln Gly Pro Glu Trp Ile Gly Thr Asn
65                  70                  75                  80
Arg Val Phe Lys Leu Cys Phe Pro Ala Gly Ile Asn Pro Phe Pro
                85                  90                  95
```

<210> 23784
<211> 319
<212> PRT
<213> A.fumigatus

<400> 23784

```
Arg Gly Ser Phe Gly Pro Cys Gly Glu Val Trp Ile Pro Arg Gly Glu
1               5                   10                  15
Thr Lys Ser Leu Gln Leu Tyr His His Ile Ile Trp Leu Ser Arg Glu
            20                  25                  30
Gly Leu Leu Ile Leu Glu Glu Phe Val Leu Pro Met Val Glu Pro Phe
        35                  40                  45
Val Glu Leu Lys Ile Leu Ala Tyr Lys Leu Arg Ala Ser Phe Tyr His
    50                  55                  60
```

```
Ile Phe Val Leu Phe His Asn Glu Pro Pro Val His Ala Pro Gly Ile
65                  70                  75                  80
Met Ser Leu Arg Ser Gln Ser Ser Ala Thr Asn Asn Ala Ala Glu Ala
                85                  90                  95
Glu Ser Thr Pro Lys Asp Gln Gly Ser Arg Phe Ser Phe Thr Ser Lys
            100                 105                 110
Pro Glu Val Ile Pro Arg Pro Gln Asp Ala Ala Ser Asn Pro Asp Asp
        115                 120                 125
Ala Ala Arg Arg Arg Ala Thr Gln Ala Pro Pro Gly Leu Ala Pro Val
    130                 135                 140
Gln Pro Pro Lys Pro Ala Ser Ser Phe Leu Leu Pro Ser Ile Asp Tyr
145                 150                 155                 160
Thr Pro Thr Ala Thr Ala Cys Phe Asn His Ala Ala Leu Leu Ala Glu
                165                 170                 175
Arg Phe Leu Pro Gly Ser His Pro Leu Arg Leu Ser Ile Lys Leu Glu
            180                 185                 190
Tyr Ala Ala Tyr Leu Tyr Asp Cys Leu His Asp Pro Asn Ala Cys Arg
        195                 200                 205
Arg Leu Ala Lys Gln Ala Ile Ala Asp Val Tyr Asn Ala Gln Glu Gly
    210                 215                 220
Met Asp Asp Glu Ser Phe Glu Asp Ala Ala Glu Ile Val Arg Ile Leu
225                 230                 235                 240
Gly Lys Met Val Lys Arg Ser Gly Lys Asn Ser Ser Thr Gly Pro Ser
                245                 250                 255
Ser Thr Ser Ala Gly Thr Pro Lys Gly Asp Ile Ser Met Ser Glu Gly
            260                 265                 270
Ser Leu Thr Pro Lys Val Arg Lys Ser Val Ser Gln Ala Thr Thr Met
        275                 280                 285
Thr Ser Val Ser Pro Ala Pro Val Asn Lys Ser Pro Val Lys Ser Asp
    290                 295                 300
Ala Pro Ser Thr Ala Leu Pro Asn Pro Ser Met Thr Asn Pro Ile
305                 310                 315

<210> 23785
<211> 108
<212> PRT
<213> A.fumigatus

<400> 23785
Ser Gly Gly Ala Val Phe Pro Ala Leu Trp Arg Leu Phe Ile Ile Ser
1               5                   10                  15
Ala Lys Pro Gly Ser Ala Thr Asp Asp Arg Ala Ala Asp Met Thr Ser
            20                  25                  30
Ala Thr Thr Gly Pro Phe Thr Tyr Asp Ala Tyr Gly Val Leu Arg His
        35                  40                  45
Ile Gly Ser Thr Met Gly Ser Gly His Tyr Ile Ser Leu Val Arg Asp
    50                  55                  60
Ala Gln Arg Gln Cys Trp Arg Lys Phe Asp Asp Glu Arg Ala Thr Asp
65                  70                  75                  80
Phe Asn Pro Arg Asp Leu Arg Phe Lys Asp Arg Leu Gln Asn Glu Gln
                85                  90                  95
Ala Tyr Ile Val Phe Tyr Glu Arg Val Pro Ala Lys
            100                 105

<210> 23786
<211> 64
```

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (64)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23786
Ala Pro His Val Gly Arg Tyr Ile Ser Tyr Ser Ile Pro Thr Leu Ser
1 5 10 15
Thr Trp Gly Ala Ala Ala Ser Cys Lys Asn Leu Cys Arg Ala Leu Ser
20 25 30
Asp Ser Phe Asn Phe Pro Asp Ile Leu Met Thr Glu Leu Ser Leu Ile
35 40 45
Ala Ser Gln Ala Leu Glu Ile Asp His Cys His Leu Arg Gly Ala Xaa
50 55 60

<210> 23787
<211> 214
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23787
Lys Leu Phe Val Xaa Cys Ser Thr Val His Pro Asp Thr Ser Arg Arg
1 5 10 15
Thr His Ala Ala Leu Thr Pro Arg Gly Ala Ser Phe Ile Ala Cys Pro
20 25 30
Val Phe Gly Ala Pro Val Phe Ala Asp Ala Gly Gln Leu Val Val Val
35 40 45
Pro Ala Gly Asp Ala Ala Ala Ile Asp Arg Ile Arg Pro Phe Phe Glu
50 55 60
Gly Val Thr Ala Arg Ala Thr Ile Asp Met Ser Gly His Asp Val Gly
65 70 75 80
Arg Ala Ser Thr Leu Lys Ile Leu Gly Asn Thr Leu Ile Leu Asn Thr
85 90 95
Val Glu Ser Ile Ala Glu Gly Leu Val Ala Ala Glu Lys Phe Gly Leu
100 105 110
Gly Ala Asp Val Tyr Gln Gln Trp Val His Gly Leu Val Gly Gly Met
115 120 125
Phe Ala Lys Tyr Ala Asp Arg Met Cys Thr Gly Asp Tyr Tyr Lys Arg
130 135 140
Glu Glu Pro Leu Phe Ala Val Asp Leu Ala Arg Lys Asp Leu Arg His
145 150 155 160
Ala Ala Ser Leu Ala Glu Ala Ala Gly Met Arg Leu Arg Ser Val Glu
165 170 175
Ile Thr Asp Ala Tyr Leu Gln Glu Val Lys Ala Glu Lys Gly Glu Lys
180 185 190
Gly Asp Ile Ala Gly Val Tyr Gly Ala Ile Arg Lys Glu Ser Gly Leu
195 200 205
Pro Phe Glu Asn Gln Gln

210

<210> 23788
<211> 83
<212> PRT
<213> A.fumigatus

<400> 23788
Phe Pro Gly Gly Glu Arg Ile Thr Phe His Pro Ala Ala Glu Asp Thr
1 5 10 15
Ala Thr Gly Ser Ile Thr Pro Thr Ala Thr Asn Asn Ala Ser Gly Ser
20 25 30
Thr Gly Ser Gly Gly Asn Thr Gly Asn Ser Gln Pro Glu Asn Thr Asn
35 40 45
Asn Gly Ser Asn Ala Gln Pro Asn Asn Asn Ala Ala Ala Gly Ser Ala
50 55 60
Val Ser Lys Ala Ala Ser Val Ala Ala Val Val Gly Leu Ile Gly Leu
65 70 75 80
Ala Trp Leu

<210> 23789
<211> 206
<212> PRT
<213> A.fumigatus

<400> 23789
Tyr Tyr Phe Gly Gln Leu Ser Leu Ser Ser Ile Pro Asn Leu Asn Thr
1 5 10 15
Ile Val Cys Gly Leu Leu Phe Ser Ser Asn Pro Leu Val Gln Arg Ile
20 25 30
Val Gln Pro Ser Leu Pro Met Ser Thr Leu Asn Met Leu Pro Glu Gln
35 40 45
Ser Ala Phe Gly Arg Ser Ala Met Pro Gly Ser Asp Ala Val Asn Pro
50 55 60
Gly Pro Ser Pro Phe Ala Pro Pro Pro Asn Ser Phe Ser Gly Asp Phe
65 70 75 80
Leu Gly Leu Ser Leu Pro Asp Glu Glu His Leu Trp Gly Met Ser Pro
85 90 95
Leu Ser Ser Ser Met Pro Ser Trp Asn Gly Lys Asn Glu Gln Met Phe
100 105 110
Ser Asn Pro Asn Leu Glu Arg Asp Leu Lys His Ser His Val Arg Asn
115 120 125
Gly Gln Pro Thr Pro Pro Pro Tyr Gly Asp Asn Lys Thr His Thr Val
130 135 140
Gly Asp Leu Tyr Ser Leu Ser Gln Cys Gln Phe Ser Asn Gly Ala Gln
145 150 155 160
Asn Phe Gln Thr His Asn Asp Arg Arg Ser Phe Cys Glu Gln Ser Ala
165 170 175
Ile Asn Ser Asn Gly Gly Ser Ser Lys Arg Arg Lys Val Arg Asp Ala
180 185 190
Lys Met Thr Gln Ala Glu Tyr Asn Glu Gln Gln Gln Glu Lys
195 200 205

<210> 23790
<211> 124

<212> PRT
<213> A.fumigatus

<400> 23790
Arg Pro Pro Ala Pro Gly Leu Leu Glu Val His Phe Thr Arg Ser Glu
1 5 10 15
His Lys Asn His Asp Asn Asn Ala Leu Thr Ser Thr Thr Thr Thr Thr
20 25 30
Lys Phe Phe Phe Ser Asn Thr Asn Ser Leu Thr Ser Ser Leu Tyr Thr
35 40 45
Phe Lys Met Ser Leu Phe His Thr Phe His Thr Pro Gly Asp Phe Ala
50 55 60
Pro Leu Phe Arg Leu Leu Asp Asp Tyr Asp Phe His Arg Ser Thr Arg
65 70 75 80
Asn Gln Ala Ser Ser Val Arg Ser Phe Ala Pro Arg Phe Asp Val Arg
85 90 95
Glu Thr Asn Asp Ala Tyr Leu Leu Asp Gly Glu Leu Pro Arg Arg Leu
100 105 110
Gln Pro Thr Gly Val Glu Gly Gln Arg Leu Arg Thr
115 120

<210> 23791
<211> 193
<212> PRT
<213> A.fumigatus

<400> 23791
Arg Gly Thr Asp Ile Ser Ala Gly Asp Arg Val Ala Leu Glu Cys Gly
1 5 10 15
Val Pro Cys Ser Lys Pro Thr Cys Ser Phe Cys Arg Thr Gly Lys Tyr
20 25 30
His Ala Cys Pro Asp Val Val Phe Phe Ser Thr Pro Pro His His Gly
35 40 45
Thr Leu Arg Arg Tyr His Ala His Pro Glu Ala Trp Leu His Lys Ile
50 55 60
Pro Asp Asn Ile Ser Phe Glu Glu Gly Ser Leu Leu Glu Pro Leu Ser
65 70 75 80
Val Ala Leu Ala Gly Ile Asn Arg Ser Gly Leu Arg Leu Ala Asp Pro
85 90 95
Leu Val Ile Cys Gly Ala Gly Pro Ile Gly Leu Ile Thr Leu Leu Ala
100 105 110
Ala Ser Ala Ala Gly Ala Glu Pro Ile Val Ile Thr Asp Ile Asp Glu
115 120 125
Asn Arg Leu Ser Lys Ala Lys Glu Leu Val Pro Arg Val His Pro Val
130 135 140
His Val Gln Lys Gln Glu Ser Pro Gln His Leu Gly Ala Arg Ile Val
145 150 155 160
Arg Glu Leu Gly Gln Glu Ala Lys Leu Val Leu Glu Cys Thr Gly Val
165 170 175
Glu Ser Ser Val His Ala Gly Ile Tyr Val Gly Arg Leu Gly Pro Glu
180 185 190
Thr

<210> 23792
<211> 99

<212> PRT
<213> A.fumigatus

<400> 23792
Ala His Ser Lys Ala Cys Leu Ile Lys Ile Ile Asp Ile Leu Leu Cys
1 5 10 15
Asn Pro Ile Leu Tyr Asp Ser Asp Leu Tyr Met Val Lys Pro Leu Pro
20 25 30
Asn Tyr Phe Arg Val Phe Ala Phe Arg Ser Ser Ile Ile Ile Ala Leu
35 40 45
Ile Val Ala Cys Phe Gln Phe Ile Thr Thr Ser Asn Glu Leu Gln Ser
50 55 60
Leu Ile Tyr Thr Asn Tyr Leu Asn Arg Pro Cys Thr Ile His Ser Lys
65 70 75 80
Lys Asn Ile Ser Tyr Phe Leu Tyr Ile Gly Arg Ser Gly Arg Cys Ser
85 90 95
Ile Leu Ile

<210> 23793
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23793
Asn Gln Gln Arg Leu His Asn Leu Thr Ser Leu Arg Val Gly Phe Ser
1 5 10 15
Phe Asn Leu Leu Arg Leu Phe Ile Gly Pro Glu Met Leu Arg Ile Asn
20 25 30
Ser Phe Ser Cys Pro Val Phe Ile Asn Arg Thr Ala Asn Ser Trp Glu
35 40 45
Ile Lys Val Leu Pro Phe Pro Pro Pro Arg Ser Pro Lys Ile
50 55 60

<210> 23794
<211> 102
<212> PRT
<213> A.fumigatus

<400> 23794
Val Ile Arg Arg Glu Ala Arg Tyr Tyr Leu Leu Ser Ala Met Ala Asn
1 5 10 15
Gln Leu Arg Tyr Pro Asn Ser His Thr Tyr Phe Phe Ser Phe Ala Ile
20 25 30
Leu Arg Leu Phe Gly Val Asp Asn Ser Glu Gln Asp Gly Ser Asp Ile
35 40 45
Arg Gln Gln Ile Ile Arg Val Leu Leu Glu Arg Leu Ile Val His Arg
50 55 60
Pro His Pro Trp Gly Leu Ile Ile Thr Leu Gln Glu Leu Leu Gln Asn
65 70 75 80
Arg Ser Tyr Thr Phe Phe His Leu Pro Phe Ile Gln Ala Ala Pro Glu
85 90 95
Val Cys His Ser Ser Val
100

<210> 23795

<211> 200
<212> PRT
<213> A.fumigatus

<400> 23795
Ser Ile Phe Gly Phe Gln Val Ser Ile Ser Pro Gln Leu Cys Lys Glu
1 5 10 15
Thr Pro Phe Thr Asp Arg Thr Leu Asp Arg Thr Thr Pro Ile Gly Lys
20 25 30
Leu Ile Ser Ser Tyr Leu Gln Gly Gln Ser Gln Ala Asp Asp His Ser
35 40 45
Ile His Leu Leu Phe Ser Ala Asn Arg Trp Glu Ile Ala Lys Ser Ile
50 55 60
Glu Asp Asp Ile Ala Asn Gly Ile Ser Val Ile Val Asp Arg Tyr Ser
65 70 75 80
Tyr Ser Gly Ala Val Tyr Ser Ala Ala Lys Gly Asn Pro Asn Leu Ser
85 90 95
Leu Glu Trp Ala Trp Gln Pro Glu Ile Gly Leu Pro Gln Pro Asp Met
100 105 110
Cys Leu Phe Leu Arg Ile Ser Pro Glu Glu Ala Ala Lys Arg Gly Gly
115 120 125
Phe Gly Val Glu Arg Tyr Glu Asn Glu Thr Met Gln Asn Arg Val Arg
130 135 140
Glu Leu Phe Gln Thr Leu Phe Asp Leu Gln Gln Gly Asp Tyr Ile His
145 150 155 160
Thr Ile Asp Ala Gly Arg Ser Phe Asp Ala Val Ser Gln Asp Ile Met
165 170 175
Lys Ile Val Thr Asp Tyr Ile Gly Arg Leu Asp Ala Met Gly Pro Leu
180 185 190
Lys Arg Leu Gly Ala Leu Ser Asn
195 200

<210> 23796
<211> 103
<212> PRT
<213> A.fumigatus

<400> 23796
Leu Ile Phe His Ser Met Ala Ile Phe Thr Ser Pro Lys Ser Leu Gln
1 5 10 15
Asn Val Asn Ala Leu Val Pro Arg Gln Phe Met Thr Gln Met Pro Ser
20 25 30
Gly Leu Met Asn Ala Gly Met Leu Gln Asp Gly Gly His Pro Ser His
35 40 45
Pro Ser Phe Phe His Leu Val Leu Leu Val Phe Glu Ala Val Leu Glu
50 55 60
Val Val Cys Val Ser Leu Pro Gly Tyr Ile Val Ala Lys Gln Gly Met
65 70 75 80
Phe Asp Ala Glu Ala Gln Lys Leu Val Ala Asn Leu Asn Val Met Leu
85 90 95
Phe Thr Pro Cys Leu Ser Met
100

<210> 23797
<211> 97
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (64),(88)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23797
Tyr Gly Ala Val Phe Ile Lys Leu Gly Ser Gln Leu Thr Ala Glu Lys
1 5 10 15
Ile Thr Asp Leu Ala Ile Ile Pro Phe Ile Phe Ile Val Gln Thr Phe
20 25 30
Val Ser Tyr Ser Cys Ala Trp Ala Ile Ser Arg Cys Phe Arg Phe Lys
35 40 45
Lys Arg Gln Ala Asn Phe Val Ala Ala Met Ala Val Arg Ile Pro Xaa
50 55 60
Ile Leu His His Ile Pro Tyr Leu Ile Phe Ser Ile Asn Arg Ser Ser
65 70 75 80
Val Thr Gln Thr Leu Tyr Leu Xaa Pro Leu Ser Cys Arg Ser Arg Arg
85 90 95
Pro

<210> 23798
<211> 115
<212> PRT
<213> A.fumigatus

<400> 23798
Glu Thr Gln Val Tyr Ala Leu Glu Leu Arg Thr Ser Gly Ile Arg Ala
1 5 10 15
Trp Phe Phe Pro Arg Gly Ser Ile Pro Asn Asp Ile Leu Asp Asn Ile
20 25 30
Pro Asp Pro Thr Thr Trp Gly Thr Ala Leu Ala Asp Phe Pro Asn Thr
35 40 45
Asn Cys Asp Ile Ala Ser His Phe Ser Asn Gln Ser Ile Ile Ala Asn
50 55 60
Ile Asp Leu Cys Gly Gln Leu Gly Ala Gln Pro Gln Phe Tyr Thr His
65 70 75 80
Leu Tyr Asn Cys Pro Gly Thr Cys Ser Ser Phe Val Ala Arg Asn Pro
85 90 95
Ala Asn Leu Thr Glu Ala Tyr Trp Glu Phe Lys Ser Phe Lys Val Tyr
100 105 110
Gln Ala Gln
115

<210> 23799
<211> 264
<212> PRT
<213> A.fumigatus

<400> 23799
Ser Val Asp Ile His Cys Arg Arg Arg Tyr Arg Leu Leu Pro Thr Lys
1 5 10 15
Val Pro Asn Pro Ser Leu Pro Pro Pro Asp Pro Ser Leu Trp Ile Val
20 25 30

```
His Tyr Ser Arg Ala Pro Pro Thr Glu His Ile Pro Ala Asn Arg Ile
        35                  40                  45
Pro Val Ser Pro Gln Val Gln Asn Met Leu Ala Gln Arg Arg Phe Leu
    50                  55                  60
Gln Asn Gln Gly Gln Leu Ala Arg Lys Asp Phe Met Leu His Asp Arg
65                  70                  75                  80
Asn Asn Trp Pro Thr Ile Asn Phe Pro Pro Gln Ile Ala Pro Gln Ala
                85                  90                  95
Leu Ala Gln Pro Ala Gly Pro Tyr Pro Asn Ala Met Val Gly Arg Gln
            100                 105                 110
Pro Phe Tyr Pro Gln Pro Gly Gln Pro Ala Pro Pro Pro Ala Ala Ala
        115                 120                 125
Ala Pro Ala Lys Ala Pro Arg Gly His Arg Ala Ser Thr Ala Ala Met
    130                 135                 140
Thr Ala Ala Ala Ala Asp Phe Ala Leu Glu Asp Glu Asp Val Ser Thr
145                 150                 155                 160
Gly Asp Leu Met Asp Leu Leu Thr Pro Arg Glu Val Ser Lys Met Arg
                165                 170                 175
Tyr Gln Gln His His Glu Trp Met Glu Glu Ile Phe Ala Ser Pro Tyr
            180                 185                 190
Ala Ile Ser Gln Ile Thr Pro Val Ser Leu Gly Leu Gly Arg Lys Gly
        195                 200                 205
Glu Leu Glu Thr Leu Thr Ala Gly Phe Phe Asp Ala Pro Val Gly Pro
    210                 215                 220
Ala Ser Gly Asp Ser Lys Glu Ser Thr Asp Ser Ala Gln Ala Thr Lys
225                 230                 235                 240
Met Glu Pro Glu Arg Ala Lys Glu Phe Ala Asp Arg Val Ala Lys Lys
                245                 250                 255
Val Gly Arg His Asp Cys Arg Asn
            260

<210> 23800
<211> 165
<212> PRT
<213> A.fumigatus

<400> 23800
Ser Ala Val Pro Ser Ser Pro Trp Leu Met Ile Asp Glu Gly Met Glu
1               5                   10                  15
Asp Ile Ala Ala Asp Asp Gly Gly Leu Asp Pro Leu Leu Glu Glu Met
            20                  25                  30
Glu Ala Ala Leu Arg Gly Asp Asn Glu Ala Gln Pro Gln Gly Ala Pro
        35                  40                  45
Ser Ser Asp Thr Gly Leu Ala Asn Leu Tyr Gln Ala Gly Thr Pro Met
    50                  55                  60
Ala Thr Lys Pro Ser Thr Pro Ala Ala Asp Thr Ser Gly Asp Glu Ser
65                  70                  75                  80
Asp Ser Asp Ala Asp Glu Glu Ala Asp Val Pro Glu Asn Glu Leu Asp
                85                  90                  95
Asp Glu Gln Leu Glu Gln Gln Arg Gln Phe Gln Gln His Arg Glu Glu
            100                 105                 110
Ile Ala Glu Leu Glu Ala Leu Ile Arg Ala Glu Thr Val Lys Trp Glu
        115                 120                 125
Asn Met Gln Asn Gln Ile Leu Lys His Lys Leu Ala Lys Arg Ile Gln
    130                 135                 140
Asp Leu Lys Arg Asp Leu Ser Leu Lys Lys Val Ser Val Gly Glu Gly
```

145 150 155 160
Asp Asp Ala Asp Thr
165

<210> 23801
<211> 194
<212> PRT
<213> A.fumigatus

<400> 23801
Tyr Pro Ile Ala Cys Tyr Val Gln Leu Ala Met Thr Tyr Pro His Ala
1 5 10 15
Tyr Leu Leu Lys His Asn Phe Gln Leu Gln Phe Ile Pro Ala Tyr Leu
20 25 30
Phe Gln Ala Thr Gly Ser Pro Val Pro Ala Arg Thr Ala Pro Phe Thr
35 40 45
Ser Arg Phe Ser Ser Ser Phe Ser Phe Arg Cys Leu Ser Ala Ser Leu
50 55 60
Ser Ala Ala Ser Pro Arg Gly Ser Ser Gly Leu Trp Ser Thr Arg Ser
65 70 75 80
Pro Arg Ile Arg Ser Cys Ser Ser Leu Phe Arg Ser Met Ser Ala Ala
85 90 95
Arg Ser Leu Ser Ser Pro Asn Pro Gly Cys Pro Gly Pro Cys Ala Leu
100 105 110
Pro Thr Gly Pro Ala Cys Ala Pro Ala Cys Ala Arg Ser Leu Phe Cys
115 120 125
Leu Thr Ala Arg Ala Met Ser Pro Ser Ala Gly Cys Ser Ser Thr Pro
130 135 140
Tyr Ser Lys Ser Thr Ser Glu Ala Ala Cys Arg Phe Phe Cys Ser Cys
145 150 155 160
Ser Arg Leu Cys Phe Ser Leu Ala Ser Ser Ser Ser Leu Asp Gly Leu
165 170 175
Glu Ser Thr Val Arg Arg Val Met Glu Glu Thr Gly Ser Pro Arg Trp
180 185 190
Arg Trp

<210> 23802
<211> 95
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (21),(50)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23802
Trp Asp Cys Pro Pro Phe Ile Phe Lys Leu Val Val Pro Ser Arg Ser
1 5 10 15
Pro Asn Arg Arg Xaa Ile Phe Ile Asn Lys Thr Ala Glu Ile Arg Arg
20 25 30
Gly Thr Arg Lys Trp Gly Ile His Ala Lys Gln Glu Glu Leu Glu Ile
35 40 45
Asp Xaa Pro Glu Leu Leu Val Thr Asn Phe Ser Arg Pro Leu Arg Leu
50 55 60

```
Val Val His Glu Pro Leu Ile Val Ala Val Thr Val Tyr Leu Gly Phe
65                  70                  75                  80
Ile Tyr Gly Leu Leu Tyr Cys Phe Leu Thr Ala Tyr Gly Phe Val
                85                  90                  95

<210> 23803
<211> 114
<212> PRT
<213> A.fumigatus

<400> 23803
Gln Gly Val Tyr His Met Asn Ala Gly Val Gly Gly Leu Pro Leu Phe
1               5                  10                  15
Gly Met Val Val Gly Leu Phe Ile Gly Gly Ala Tyr Ile Cys Leu Phe
            20                  25                  30
Ala Ser Arg Ala Tyr Asn Gln Lys Leu Gln Ala Asn Ala Gly Val Pro
        35                  40                  45
Val Pro Glu Trp Arg Leu Pro Pro Val Ile Val Gly Gly Ala Leu Phe
    50                  55                  60
Ala Ala Gly Ile Phe Trp Phe Gly Trp Thr Gly Phe Thr Ala Asp Val
65                  70                  75                  80
Pro Trp Ile Ala Ser Thr Leu Ser Gly Leu Phe Thr Gly Phe Gly Leu
                85                  90                  95
Leu Ile Val Phe Ile Gln Leu Phe Asn Tyr Leu Ile Asp Thr Tyr Leu
            100                 105                 110
Met Leu


<210> 23804
<211> 109
<212> PRT
<213> A.fumigatus

<400> 23804
Pro Phe Phe Phe Ser Asn Glu Phe Ser Ala Ala Ser Ala Ile Ala Ala
1               5                  10                  15
Asn Thr Phe Cys Arg Ser Val Leu Ala Ala Ser Phe Pro Leu Phe Ser
            20                  25                  30
Arg Gln Met Phe Asn Asn Met Gly Ile Gln Trp Ala Ala Thr Leu Leu
        35                  40                  45
Gly Cys Val Ala Thr Ala Leu Val Pro Ile Pro Val Ile Phe Tyr Leu
    50                  55                  60
Tyr Gly Lys Arg Leu Arg Met Arg Ser Arg Phe Ala Pro Ile Leu Glu
65                  70                  75                  80
Leu Asp Glu Ala Ala His Val Pro Arg Glu Met Thr Glu Asn Lys Gly
                85                  90                  95
Glu Glu Glu Ala Asn Thr Gln Thr Glu Glu Ser Gln Ser
            100                 105

<210> 23805
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23805
Thr Val Leu Arg His Thr Ser Asp Val Ala Val Val Val Cys Leu Ser
```

```
1               5                   10                  15
Leu Gly Ile Ala Met Ala Ile His Leu Phe Met Arg Ala Trp Asn Gln
            20                  25                  30
Asn Ser Ile Gly Ile Tyr Thr Pro Gln His Phe Phe Ser Ser Lys Gln
        35                  40                  45
Gly Ile Leu Gly Arg Leu Asn Leu Leu Ser Ser Leu Asn Asn Leu Pro
    50                  55                  60
Glu Leu Ala
65
```

<210> 23806
<211> 186
<212> PRT
<213> A.fumigatus

<400> 23806

```
Arg Phe Glu Leu Ser Gly Thr Arg Asp Ser Leu Arg Gly Ser Ala Glu
1               5                   10                  15
Glu Arg Leu Gln Glu Gly Cys Thr Gln Ile Pro Ser Arg Tyr Val Ile
            20                  25                  30
Val Asn Asp Ile Cys Asp Gly Arg Ile Trp Ser Leu Thr Gly Arg Phe
        35                  40                  45
Ile Asp Lys Asn Ala Asn Asn Pro Glu Ala Ala Glu Lys Phe Lys Glu
    50                  55                  60
Met Ser Arg Ala Tyr Glu Ile Leu Ser Asp Pro Gln Lys Arg Gln Ile
65                  70                  75                  80
Tyr Asp Gln Tyr Gly Glu Glu Gly Leu Glu Gly Gly Ala Gly Gly Pro
                85                  90                  95
Gly Met Gly Ala Glu Asp Leu Phe Ala Gln Phe Phe Gly Gly Gly Gly
            100                 105                 110
Ala Phe Gly Gly Met Phe Gly Gly Gly Met Arg Asp Gln Gly Pro Lys
        115                 120                 125
Lys Ala Arg Thr Ile His His Val His Lys Val Ser Leu Glu Asp Ile
    130                 135                 140
Tyr Arg Gly Lys Val Ser Lys Leu Ala Leu Gln Lys Ser Val Ile Cys
145                 150                 155                 160
Pro Gly Cys Asp Gly Arg Gly Gly Lys Glu Gly Ala Val Ser Leu His
                165                 170                 175
Arg Pro Gly Leu Glu Gly Asn Ala Tyr Gly
            180                 185
```

<210> 23807
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23807

```
Val Glu Pro Asn Cys Phe Trp Gly Val Ser Arg Arg Met Ala Ser Ala
1               5                   10                  15
Arg Val Ile Ile Ser Gly Gln Cys Leu Ala His Phe Ile Met Gly Ser
            20                  25                  30
Ala Phe Ile Ala Tyr Gly Ile Met Leu Thr Ile Leu Leu Leu Val Gly
        35                  40                  45
Gln Tyr Trp Leu Arg Arg Thr Gly Arg Ser Gln Glu Phe Phe Asp Ser
    50                  55                  60
Leu Val Ile Ala Ala
```

65

<210> 23808
<211> 137
<212> PRT
<213> A.fumigatus

<400> 23808
Gly Cys Val Asn Thr Phe Thr Glu His Arg Trp Gly Gly Pro Trp Val
1 5 10 15
His Asn Asp Leu Gln His Thr Thr Met Gly Ile Val Trp Trp Cys Ala
20 25 30
Gly Leu Leu Gly Ile Trp Met Ser Arg Lys Arg Asn Gly Arg Pro Lys
35 40 45
Arg Asn Leu Ile Pro Ala Ile Val Ile Leu Leu Thr Gly Tyr Ala Met
50 55 60
Ser Ala His Pro Gln Thr Leu Met Ile Ser Thr Met Val His Thr Ile
65 70 75 80
Phe Gly Tyr Thr Leu Met Ala Ala Gly Phe Thr Arg Ile Val Glu Ile
85 90 95
Ala Phe Val Leu Lys Asp Lys Asn Thr Val Ser Leu Asp Gly Ser Asp
100 105 110
Pro Ser Ser Phe Gln Tyr Leu Pro Pro Phe Val Ser Ser Ser Cys Ile
115 120 125
Cys Leu Leu Glu Pro Gly Asp Arg Ala
130 135

<210> 23809
<211> 111
<212> PRT
<213> A.fumigatus

<400> 23809
Ala Ala Gly Ser Tyr Ser Asn Leu Asn Val Val Val Asn Ile Leu Leu
1 5 10 15
His Ile Tyr Ala Val His Ala Trp Pro Asn Ser Ala Lys Pro Ser Ala
20 25 30
His Ser Arg Ser Ser Ser Thr Thr Asp Pro Val Gln Asp Ser Thr Tyr
35 40 45
Ile Asn Gly His Ala Arg Ser Ala Ser Glu Thr Gln Gln Val His Asp
50 55 60
Ala Glu Ala Phe Glu Leu Gln Gly Leu Ile Ser Asp Glu Glu Asp Glu
65 70 75 80
Asp Val Pro Gly Asn Arg Asn His Ser Met Gly Pro Arg Lys Ala Glu
85 90 95
Asp Glu Glu Ser Thr Pro Leu Val Gly Lys Glu Ala Ser Ser Ala
100 105 110

<210> 23810
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23810
Val Leu Asn Pro Pro Lys Asp Pro Tyr Phe Ile Phe Ser Lys Leu Glu
1 5 10 15

```
Asn Asn Leu Ser Arg Ser Asp Asp Tyr Asp Val Ile Glu Ile Leu Gly
            20                  25                  30
Ser Cys Trp Glu Trp Arg Cys Trp Ile Trp Cys Leu Ala Phe Arg Tyr
        35                  40                  45
Phe Leu Thr Leu Ser Ala Val Cys Tyr Ala Leu Tyr Ile Tyr Gln Lys
    50                  55                  60
Asp Gly Met Thr Leu Gln Glu Phe Phe Thr Thr Gly Leu Glu Gly His
65                  70                  75                  80
Ala Leu
```

<210> 23811
<211> 76
<212> PRT
<213> A.fumigatus

<400> 23811

```
Thr Arg Arg Ser Gly Val Val Trp Ala Asp Lys Ser Phe Ser Gln Leu
1               5                   10                  15
Leu Tyr Ala Ser Gly Phe Leu Phe Met Gly Ala Thr Glu Glu Gln Met
            20                  25                  30
Gln Leu Leu His Asp Ala Gly Ile Thr His Val Ser Tyr Val Leu Ile
        35                  40                  45
Leu Tyr Ser Ile Ala Phe Ile Leu Phe Leu Cys Lys Trp Ile Val Phe
    50                  55                  60
Leu Leu Cys Pro Leu Leu Gly Cys Trp Phe Leu Phe
65                  70                  75
```

<210> 23812
<211> 134
<212> PRT
<213> A.fumigatus

<400> 23812

```
Ser Phe Gly Pro Ser Gly Glu Asp Ser Gln Ser Ser Leu Phe Gln Val
1               5                   10                  15
Tyr Leu Arg Leu Arg Pro Pro Val Ser Gln His Gln Asp Pro Tyr Ala
            20                  25                  30
Glu Arg Cys Leu Val Ile Glu Ser Pro Glu Glu Lys Thr Asn Asn Ala
        35                  40                  45
Glu Ser Asp Gly Ala Pro Ser Ala Pro Ile Pro Thr His Ile Ile Leu
    50                  55                  60
Gln Pro Pro Asn Asp Ala Arg Lys Arg Ala Val Glu Lys Phe Gly Phe
65                  70                  75                  80
Thr Lys Val Phe Asp Glu Ser Ala Ser Gln Leu Thr Val Phe Glu Asp
                85                  90                  95
Thr Gly Leu Glu Ser Leu Ile Arg Gly Val Leu Leu Glu Gly Arg Asp
            100                 105                 110
Gly Leu Val Ala Thr Leu Gly Val Thr Gly Ser Gly Lys Val Arg Thr
        115                 120                 125
Ile Arg Thr Val Trp Asp
    130
```

<210> 23813
<211> 224
<212> PRT

<213> A.fumigatus

<400> 23813

```
His Gln Thr Ser Tyr Pro Trp Ala Lys Ala Lys Pro Ser Lys Lys Lys
1               5                  10                  15
Ser Ala Arg Gln Ala Leu Ile Asp Glu Ala Leu Thr Gln Gly Val Gln
            20                  25                  30
His Cys Val Tyr Thr Ser Val Asp Arg Gly Gly Asp Ala Ser Thr Asp
        35                  40                  45
Asn Ala Thr Thr Ser Arg Thr Phe Ile Ser Lys His Arg Ile Glu His
    50                  55                  60
His Leu Phe Glu Gln Thr His Gly Thr Gln Met Ser Trp Thr Val Leu
65                  70                  75                  80
Arg Pro Val Phe Phe Phe Asp Asn Ile Thr Arg Asp Phe Ile Gly Arg
                85                  90                  95
Leu Val Val Thr Ala Trp Asp Ala Tyr Leu Gln Gly Lys Pro Leu Gln
            100                 105                 110
Cys Ile Ala Val Ser Asp Ile Gly Tyr Phe Ala Ala Gln Ala Phe Leu
        115                 120                 125
Asn Pro Ala Glu Tyr Arg Asn Arg Cys Leu Ser Leu Ala Gly Asp Val
    130                 135                 140
Leu Thr Tyr Glu His Met Gln Glu Thr Met Lys Arg Lys Thr Gly Arg
145                 150                 155                 160
Glu Ala Pro Thr Thr Phe Arg Leu Val Cys Tyr Ala Val Leu Trp Ile
                165                 170                 175
Val Lys Asp Leu Arg Thr Met Phe Glu Trp Leu Tyr Ala His Gly Tyr
            180                 185                 190
Arg Ala Asp Ile Pro Arg Leu Arg Glu Met His Pro Gly Leu Lys Asp
        195                 200                 205
Phe Glu Arg Trp Leu Glu Glu Asp Ser Gln Phe Val Asn Arg Arg Ser
    210                 215                 220
```

<210> 23814
<211> 144
<212> PRT
<213> A.fumigatus

<400> 23814

```
Tyr Leu Pro Val Ala Lys Ser Leu Asn Val Arg Lys Met Arg Ser Ile
1               5                  10                  15
Leu Val Thr Gly Ala Thr Gly Lys Gln Gly Gly Ala Val Val Asn Ala
            20                  25                  30
Leu Leu Ala Glu Asp Ala Asp Ile Glu Ile Leu Ala Val Thr Arg Asn
        35                  40                  45
Pro Gln Ser Ser Ala Ala Arg Asn Leu Ala Asp Lys Ser Pro Lys Ile
    50                  55                  60
Lys Val Val Gln Gly Asn Leu Asp Asp Pro Ala Gly Ile Phe Lys Asn
65                  70                  75                  80
Ala His Gln Val Ser Ser Glu Pro Val Trp Gly Val Phe Ser Val Ala
                85                  90                  95
Gly Thr Asp Tyr Gly Val Leu Thr Gly Ser His Pro Pro Lys Pro Leu
            100                 105                 110
Arg Ala Gly Ser Thr Asp Thr Lys Pro Ala Thr His Gly Pro Arg Pro
        115                 120                 125
Asn Arg Arg Lys Arg Arg Ala Leu Gly Lys Pro Ser Ser Thr Lys Leu
    130                 135                 140
```

<210> 23815
<211> 122
<212> PRT
<213> A.fumigatus

<400> 23815
Arg Leu Thr Ile Ser Ile Ile Ser Gly Ile Val Thr Leu Ile Ala Tyr
1 5 10 15
Thr Thr Ser Pro Arg Glu Leu Thr Pro Gln Ser Gln Asp Ser Leu Phe
20 25 30
Arg Cys Gly Thr Ser Ala Ala Glu Ala Lys Ala Ala Gly Cys His Phe
35 40 45
Asp Leu Met Ser Phe Ser Trp Leu Pro Ser Ala Cys Tyr Asn Glu Asp
50 55 60
Leu Thr Asn Glu Phe Leu Asn Tyr Thr Asp Trp Lys Trp Ser Leu Asp
65 70 75 80
Ser Glu Gly Arg His Leu Val Pro Lys Glu Tyr Val Gln Gln Gly Asp
85 90 95
Phe Glu Tyr Leu Phe Thr Ser Tyr Glu Tyr His Val Val His Cys Val
100 105 110
Phe Met Trp Lys Lys Thr Gln Cys Ile Leu
115 120

<210> 23816
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23816
Gly Ser Asp Thr Val Gly Asp His Leu Thr Pro Gly Pro Thr Cys Arg
1 5 10 15
Pro Ile Ser Leu Thr Asp Phe Gln Asn Asp Gln Thr Ser Thr Ala His
20 25 30
Asn Ser Thr Asn Ile Thr Leu Ile Lys Ala Ala Leu Glu Val Ile Lys
35 40 45
Leu Leu Glu Leu Gly Lys Leu Ile Asn Tyr Thr Phe Phe Ile Asn Lys
50 55 60
Tyr Gly Val Ser
65

<210> 23817
<211> 152
<212> PRT
<213> A.fumigatus

<400> 23817
Asp Leu Ser Ser Trp Ile Leu Glu Ser Arg Lys Gln Arg Met Tyr Ala
1 5 10 15
Cys Phe Ala Leu Arg Leu Asp Leu Trp Phe Ser Asn Gly Leu Tyr Leu
20 25 30
Gln Thr Leu Ile Asp Ser Asp Ala Pro Val Leu Leu Ile Arg Glu Thr
35 40 45
Pro Glu His Lys Thr Ala Val Gly Thr Phe Asp Tyr Ser Asp Leu Asn
50 55 60
Ala Tyr Leu Leu Leu Ala Ala Gly Leu Thr Gln Pro Asn Glu Glu Leu

65 70 75 80
Arg Glu Ser Tyr Glu Glu Leu Ala Arg Lys Ala Arg Asp Gly His Lys
85 90 95
Ile Pro Leu Lys Asp Val Lys Glu Leu Gly Arg Ser Glu Pro Leu Thr
100 105 110
Thr Leu Pro Ala Ser Ala Asn Leu Met Thr Ala Val Glu Thr Phe Gly
115 120 125
Gly Gly Val His Arg Val Val Val Val Asp Glu His Lys Asn Gly Glu
130 135 140
Val Val Gly Ile Val Ser Gln Phe
145 150

<210> 23818
<211> 81
<212> PRT
<213> A.fumigatus

<400> 23818
His Lys Lys His Val Ser Tyr Ser Leu Asp Ser Ser Thr Leu Gln Arg
1 5 10 15
Lys Ala Val Leu Gly Phe Phe Thr Glu Pro Lys Ala Pro Gly Glu Val
20 25 30
Val Gly Cys Ile Cys Arg His His Lys Arg Pro Leu Ala Ser Ser Lys
35 40 45
Arg Glu Asp Cys Arg Glu Lys Trp Ser Asn Ser Pro Thr Lys Asp Gln
50 55 60
Glu Leu Glu Ala Glu Ser Thr Ala Trp Ile Ala Asn Ile Asn Pro Arg
65 70 75 80
Gly

<210> 23819
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23819
Val Ala Asp Ala Glu Thr Gly Ile Ser Leu Glu Ala Ala His Ile Leu
1 5 10 15
Pro Leu Tyr Glu Leu Leu Thr Thr Lys Tyr Phe Leu Gln Lys Met Thr
20 25 30
Tyr Phe Leu Leu Tyr Leu Leu Ser Ser Ser Tyr Glu Glu Ile Ala Cys
35 40 45
Ser Leu Glu Gly Asn Lys Asp Leu Gln Ile Glu Gly Cys Gly Tyr Pro
50 55 60
Arg Thr Gly Cys
65

<210> 23820
<211> 127
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (58)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23820
Arg Val Cys Thr Asp His Cys Ser Met Leu Pro Ala Ile Ala Tyr Thr
1 5 10 15
Leu Asp Met Tyr Arg Arg Thr Gly Glu Phe Tyr Gly Ile Asn Glu Ala
20 25 30
Leu Phe Ser Ser Ala Leu Ala Ala Met Ile Phe Ser Val Leu Gly Ala
35 40 45
Gln Pro Leu Thr Ile Val Gly Ile Thr Xaa Leu Ile Ser Leu Phe Asn
50 55 60
Tyr Thr Ile Tyr Asp Ile Val Thr Ile Tyr Glu Pro Ala Ile Tyr Pro
65 70 75 80
Asn Phe Met Cys Trp Thr Ala Ile Trp Ala Ala Ile Phe His Trp Ile
85 90 95
Val Ala Val Cys Asn Leu Cys Asp Tyr Met Arg Tyr Val Thr Asp Phe
100 105 110
Phe Val Pro Val Val Trp Cys Leu Cys Trp Asp Tyr Leu Leu Glu
115 120 125

<210> 23821
<211> 102
<212> PRT
<213> A.fumigatus

<400> 23821
Glu Gln Asp Lys Arg Gly Ala Ala Pro Glu Ala Leu Arg Ala Gly Ser
1 5 10 15
Asp Leu Leu Ala Asp Leu His Ala Thr Ser Cys Gly Leu Lys Ala Leu
20 25 30
Ala Ser Thr Thr Ala Gly Glu Gly Leu Glu Ile Cys Arg Arg Ala Cys
35 40 45
Gly Gly His Gly Tyr Ser Ser Tyr Ser Gly Ile Gly Pro Tyr Tyr Ser
50 55 60
Asp Tyr Leu Pro Thr Leu Thr Trp Glu Gly Asp Asn Tyr Met Leu Thr
65 70 75 80
Gln Gln Val Ala Arg Tyr Val Ser Ser Cys Asp Leu Arg Gly Leu Ser
85 90 95
Ser Met Leu Met Leu Asp
100

<210> 23822
<211> 173
<212> PRT
<213> A.fumigatus

<400> 23822
Leu Leu Lys Ser Ala Arg Ala Val Leu Ala Gly Lys Gly Thr Gly Asn
1 5 10 15
Asp Thr Ser Gln Ile Leu Gln Ala Tyr Leu Ala Arg Arg Asp Lys Gly
20 25 30
Ala Ser Phe Asp Ile Leu Glu Val Asp Ser Asp Ile Val Ala Ala Phe
35 40 45
Ala Trp Arg Thr Ala His Leu Thr Phe Glu Ala Leu Lys His Arg Asp
50 55 60
Leu Glu Lys Arg Ser Trp Asn Ser Leu Leu Val Asp Phe Trp Arg Leu

65 70 75 80
Ser Thr Ala His Ser Gln Tyr Leu Val Val Lys Asn Phe Tyr Glu Ala
85 90 95
Val Ser Ser Pro Asp Leu Ala Ala Lys Leu Gly Pro Glu Thr Thr Lys
100 105 110
Ile Met His Asp Leu Phe Arg Leu Tyr Ala Leu His Thr Leu Glu Arg
115 120 125
Glu Ala Ala Glu Phe Phe Ser Ser Gly Ala Val Thr Val Arg Gln Ile
130 135 140
Thr Leu Thr Arg Thr Asn Ala Val Met Lys Leu Leu Asp Glu Ile Arg
145 150 155 160
Pro His Ala Val Arg Leu Val Asp Ala Trp Lys Ile Pro
165 170

<210> 23823
<211> 249
<212> PRT
<213> A.fumigatus

<400> 23823
Tyr Leu Ser Ala Tyr Pro Ala Ser Pro Val Gly Glu Asp Ala Ala Asn
1 5 10 15
Leu Gln Ala Thr Ile Asn Ser Arg Asp Gly Leu Gly Gln Thr Ala Gln
20 25 30
Ile Leu Leu Leu Gly Pro Ser Arg Leu Asp Asn Gln Phe Ala Arg Asp
35 40 45
Ala Tyr Pro Ala Thr Ala Thr Ser Ala Pro Asp Val Glu Gly Leu Ser
50 55 60
His Ala Glu Val His Tyr Val Phe Glu Pro Thr Pro Leu Pro Gly Gln
65 70 75 80
Ser Ser Arg His Gly Gly Asn Leu Ser Met Ser Ser Phe Ala Leu Ser
85 90 95
Arg Tyr Pro Leu Ala Trp Lys Leu Met Ser Lys Pro Trp Ala Glu Ser
100 105 110
Asn Asp Ser Ile Ser Asp Leu Ser Thr Arg Asn Glu His Gly Tyr Gln
115 120 125
Val Ala Val Gly Ala Ile Arg Pro Lys Thr Ser Met Ala Gln Trp Ile
130 135 140
Leu Leu Val Glu Gln Thr Gln Ala Glu Ala Phe Ala Pro Ile Asn Lys
145 150 155 160
Leu Arg Lys Ile Ile Leu Ala Cys Val Phe Gly Thr Ile Gly Phe Ile
165 170 175
Ile Leu Ile Val Pro Pro Leu Thr His Leu Ala Val Ala Pro Ile Leu
180 185 190
Arg Leu Ser Glu Ala Thr Arg Lys Ser Ile Glu Pro Pro Ser Gln Pro
195 200 205
Pro His Asp Cys Pro Pro Ser Ser Gly Pro Tyr Ile Val Gly Thr Ala
210 215 220
Glu Ala Glu Thr Glu Pro Arg Ala Phe Gly Asp His Met Asp Glu Lys
225 230 235 240
Gly Leu Val Ala Trp Val Lys His Phe
245

<210> 23824
<211> 118
<212> PRT

<213> A.fumigatus

<400> 23824

```
Gln Ser Arg His Pro Thr Cys Phe Leu Pro Gly Val Cys Val Val Thr
1               5                  10                  15
Gly Gly Leu Asn Gln Arg Arg Ser Arg Cys Leu Tyr His Leu Leu Thr
            20                  25                  30
Val Val Pro Gln Ile Leu Ile His Arg Ile Gly Gly Gly Asp Thr Thr
        35                  40                  45
Asp Val Leu Gly Thr Asp Val Val Lys Arg Leu Thr Gln Leu Asn Ile
    50                  55                  60
Ser Thr Cys Gln Glu Asp Thr Ser Asn Ala Asp Leu Glu Gln Leu Val
65                  70                  75                  80
Gln Phe Phe Val Tyr Asp Ile Pro Thr Ser Pro Cys Thr Val Cys Thr
                85                  90                  95
Arg Gly Arg Lys Phe Glu Thr Pro Asp Lys Ser Leu Gly Glu Ser Cys
            100                 105                 110
Lys Leu Asp Cys Leu Arg
        115
```

<210> 23825
<211> 223
<212> PRT
<213> A.fumigatus

<400> 23825

```
Ile Ala Phe Asn Arg Tyr Leu Ala Leu Arg Ser Trp Thr Glu Leu Ile
1               5                  10                  15
Thr Pro Met Leu Ala Cys Ser Glu Ile Glu Gly Gly Arg Lys Pro Thr
            20                  25                  30
Phe Ile Leu His Ser Ile Gln Leu Val Leu Pro Lys Leu Glu Ala Ala
        35                  40                  45
Ile Glu Glu Asp Leu Pro Glu Ala Ile Glu Leu Ala Arg Leu Ala Glu
    50                  55                  60
Thr Leu Ile Gly Gly Leu Glu Phe Thr Ser Thr Ser Thr Asp Ser Ala
65                  70                  75                  80
Arg Arg Ser Gly Asp Ile Ile Asp Glu Lys Leu His Gln Leu Phe Gln
                85                  90                  95
Ile Cys Ile Arg Gly Ile Phe Leu Ala Ser Gly Asn Val Gln Leu Arg
            100                 105                 110
Glu Thr Phe Tyr Asn Ile Gly Ser Gln Tyr Ile Ser Arg Ile Ala Ser
        115                 120                 125
Ala Asp Thr Val Asn Gln Asn Leu Arg His His Ser Gln Gln Val Ile
    130                 135                 140
Lys Thr Ala Gly Ser Thr Leu Ile Glu Thr Thr Cys Asp Asp Ala Tyr
145                 150                 155                 160
Ala Gly Gln Glu Ala Cys Arg Val Ser Ala Leu Leu Phe Leu Asn Leu
                165                 170                 175
Leu Ala Thr Leu Asp Arg Glu Thr Asp Ser Thr Leu Ala Glu Leu Ile
            180                 185                 190
Ser Gln Ser Asn Tyr Leu Ser Leu Phe Leu Asp Ala Ile Arg Ala Leu
        195                 200                 205
Pro His Glu Leu Lys Asn Thr Gln Ala Asn Gly Lys Leu Trp Arg
    210                 215                 220
```

<210> 23826

<211> 431
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (246)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23826

```
Ser Pro Ser Leu Gly Phe Gln Asp His Ser Asp Asp Thr Ser Asn Met
1               5                  10                  15
Ile Thr Asn Gly Glu Leu Pro Ser Val Pro Pro Leu His Leu Gly Glu
            20                  25                  30
Ser Arg Thr Pro Pro Ser Gly Asp Gln His His Gln Gln His His Glu
        35                  40                  45
Ser Arg Lys His Ser Ser Arg Lys Arg Arg Lys Ser Val His Pro Asp
    50                  55                  60
Ile Val Ala Arg Ala Met Val Asp Thr Thr Ile Ala Ile Ile Pro Ala
65                  70                  75                  80
Ser Ala Phe Arg Arg Leu Thr Arg Val Tyr Pro Arg Ala Thr Ala His
                85                  90                  95
Ile Val Gln Val Ile Leu Thr Arg Leu Gln Arg Val Thr Phe Ala Thr
            100                 105                 110
Ala His Ser Tyr Leu Gly Leu Ser Asn Glu Val Leu Gly Ile Glu Lys
        115                 120                 125
Gln Met Thr Lys Phe Thr Thr Tyr Asp Leu Pro Asn Asn Met Arg Gly
    130                 135                 140
Ala Ala Leu Asp Arg Leu Lys Asp Lys Phe Ile Lys Glu Arg Asp Arg
145                 150                 155                 160
Leu Gly Ser Glu Glu Val Thr Lys Gly Ile Ala Leu His Asn Pro Ser
                165                 170                 175
Ala Gly Arg Arg Arg Arg Ser Ser Ser Phe Leu Arg Lys Asp Ala Ala
            180                 185                 190
Leu Gln Ala Lys Leu Met Thr Pro Arg Arg Ala Ala Thr Val Val Thr
        195                 200                 205
Pro Glu Ser Ala Pro Ala Glu His Asp Thr Tyr Gly Val Ser Pro Gly
    210                 215                 220
Asp Leu Leu Ser Thr Ile Gln Ser Ser Arg Phe Gly Pro Arg Tyr Glu
225                 230                 235                 240
Gln Pro Pro Ala Lys Xaa Gln Thr Pro Leu Ala Glu Lys Glu Asn Thr
                245                 250                 255
His Phe Arg Leu Pro Ala Met Gln Ala Arg His Thr Phe Arg Arg Gln
            260                 265                 270
Asp Thr Met Asp Glu Asp Gly Leu Phe Arg Glu Cys Ile Leu Asp Cys
        275                 280                 285
Ile Met Lys Gly Ile Gly Leu Thr Ser Ser Thr Arg Asp Ala Leu Arg
    290                 295                 300
Lys Ser Asn His Ser Gly Glu Ala Ser Pro Lys Leu Leu Ser Tyr Asp
305                 310                 315                 320
Ser Arg Arg Gln Lys Ala Ile Phe Thr Asn Asn Ala Phe Gly Phe Ile
                325                 330                 335
Asp Pro Tyr Glu Gly Ser Gly Asp Gly Glu Thr Glu Ser Leu Met Ser
            340                 345                 350
Met Ser Val Thr Ser Ala Gly Gly Thr Ser Pro Val Ile Asn Leu Arg
        355                 360                 365
```

```
Glu Glu Leu Arg Asn Asp Ile Glu Ile Val Tyr Phe Pro Lys Gly Ser
    370                 375                 380
Val Leu Val Glu Gln Gly Glu Arg His Pro Gly Leu Tyr Tyr Val Ile
385                 390                 395                 400
Asp Gly Phe Leu Asp Val Gly Val Pro Ile Val Asp Lys Gly Glu Asp
                405                 410                 415
Leu Val Gly Ser Arg Leu His His Gly Ala Gly Arg Ile Arg Ala
            420                 425                 430
```

<210> 23827
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23827

```
Ser Arg Cys His Ser Phe Leu Phe Ala Asn Met Val Ser Ser Lys Leu
1               5                   10                  15
Ser Phe Val Ala Thr Ala Val Ala Ala Leu Ala Pro Leu Ala Ser Ala
            20                  25                  30
Phe Asp Ala Ser Ser Arg Ser Asn Leu Ala Ile Tyr Trp Val Arg Phe
        35                  40                  45
Asp Arg Ser Asn Arg Leu Arg Phe Gln Phe Leu His Ala Asp His Cys
    50                  55                  60
Leu Ala Gly Ser Arg Ser
65                  70
```

<210> 23828
<211> 248
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (233)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23828

```
Arg Tyr Leu Ser Phe Ser Leu Val Trp Pro Ser His Phe Ala Ser Leu
1               5                   10                  15
Arg Pro Leu Arg Asp Arg Pro Thr Cys Leu Gln Thr Phe Val Cys Val
            20                  25                  30
Leu Ser Leu Thr Leu Thr Val Tyr Thr Pro Phe Leu Cys Gly Ser Trp
        35                  40                  45
Leu Gly Phe Asn Pro Ala Val Ile Leu Phe Cys Leu Pro Thr Trp Cys
    50                  55                  60
Pro Ala Ser Phe Leu Ser Ser Pro Arg Leu Leu Gln Pro Trp Leu Pro
65                  70                  75                  80
Trp Arg Leu Leu Ser Met Pro Pro Gln Asp Pro Thr Leu Pro Ser Thr
                85                  90                  95
Gly Tyr Val Ser Thr Val Ala Ile Ala Phe Ala Ser Ser Phe Cys Met
            100                 105                 110
Leu Ile Ile Val Leu Gln Gly Gln Gly Pro Asn Gln Leu Arg Leu Ser
        115                 120                 125
His Phe Cys Gln Glu Thr Ser Leu Asp Ile Ile Asn Ile Gly Phe Ile
    130                 135                 140
Asn Tyr Phe Pro Asp Met Ser Pro Gly His Trp Pro Gly Ser Asn Phe
```

```
145                 150                 155                 160
Gly Asn Gln Cys Asp Gly Ser Val Tyr Val Thr Asn Asp Gly Val Val
                165                 170                 175
Thr Lys Leu Leu Ser Gly Cys His Gln Ile Met Glu Asp Ile Pro Ile
            180                 185                 190
Cys Gln Ala Ala Gly Lys Lys Val Leu Leu Ser Ile Gly Gly Ala Tyr
        195                 200                 205
Pro Pro Asp Gln Ser Ile Leu Ser Glu Asp Ser Ala Val Ala Phe Ala
    210                 215                 220
Thr Phe Leu Trp Gly Ala Phe Ala Xaa Ser Leu Glu Ala Gly Lys Val
225                 230                 235                 240
Leu Val Pro Leu Gly Cys Arg Arg
                245
```

<210> 23829
<211> 106
<212> PRT
<213> A.fumigatus

<400> 23829

```
Cys Ser Val Ile His Leu Met Leu Ala Gly Leu Asn Leu Leu Pro Ser
1               5                   10                  15
Thr Ser Glu Ser His Ile Val Lys Tyr Asn Leu His Phe Tyr Ala Ser
            20                  25                  30
Leu Phe His Ser Thr Asn His Leu Ser Ser Leu Ile Leu Pro Gln Thr
        35                  40                  45
Cys Gln Ser Tyr Leu Ser Ile Leu Thr Gln Cys Leu Pro Ile Ile Val
    50                  55                  60
Leu His Ser Leu Ser Phe Lys Asn Cys Leu Ser Cys Asn Phe Lys Arg
65                  70                  75                  80
Ala Phe Phe Ser Val Ile Val Thr Gln Val Asn Phe Val Ala Lys Met
                85                  90                  95
Ser Pro Ser Ser Phe Pro Gly Ala Pro Ala
            100                 105
```

<210> 23830
<211> 166
<212> PRT
<213> A.fumigatus

<400> 23830

```
Ser Gly Ser His Thr Ile Ala Asp Pro Phe Val Ala Val Asn Met Thr
1               5                   10                  15
Ser Phe Leu Pro Val Asn Asn Thr Ser Ser Pro Gln Thr Arg Pro Met
            20                  25                  30
Glu Glu Val Ala Thr Ala Ala Thr Pro Arg Pro His Thr Asn Val Ser
        35                  40                  45
Ala Thr Glu Glu Asn Arg Ser Arg Thr Met Asn Ser Gly Thr Glu Asp
    50                  55                  60
Ala Thr Pro Leu Asn Leu His Lys Val Gln Glu Asp Ser Ala Ser Arg
65                  70                  75                  80
Thr Lys Pro Ser Leu Gly His Asn Gly Thr Ser His Gly Glu Ser Asp
                85                  90                  95
Ala Asp Arg Asp Gly Ser Asp His Asp Ser Asp Ala Ala Gly Asn Ala
            100                 105                 110
Pro Pro Ser Lys Lys Lys Lys Gly Gln Arg Phe Tyr Cys Thr Asp Phe
```

```
        115                 120                 125
Pro Pro Cys Asn Leu Ser Phe Thr Arg Ser Glu His Leu Ala Arg His
    130                 135                 140
Ile Arg Lys His Thr Gly Ala Arg Pro Phe Gln Cys His Trp Ser Gln
145                 150                 155                 160
Arg Ile Ser Arg Ser Gly
                165
```

<210> 23831
<211> 337
<212> PRT
<213> A.fumigatus

<400> 23831

```
Pro Ala Leu Val Ala Ser Ala Gln Ala Tyr Arg Ile Phe Glu Tyr Thr
1               5                   10                  15
Gly Thr Arg Cys Thr Gly Ala Glu Val Gly Ile Phe Arg Val Ala Gly
            20                  25                  30
Pro Ser Ala Cys Thr Lys Leu Asn Glu Gly Val Ala Ser Ser Val Leu
        35                  40                  45
Val Lys Ile Asp Asn Ile His Asp Asp Gln Tyr Ser Val Asn Val Tyr
    50                  55                  60
Glu Asn Glu Asp Cys Thr Gly Gly Ile Val Gly Lys Ile Thr Asn Ile
65                  70                  75                  80
Asn Gly Cys Leu Asp Leu Tyr Ala Phe His Lys Thr Val Gly Lys Ala
                85                  90                  95
Val Gln Val Val Pro Val Ser Lys Lys Arg Asp Arg Ser Val Ser Ala
            100                 105                 110
Thr Lys Gly Leu Val Thr Asp Phe Gln Tyr Asn Leu Pro Glu Glu Thr
        115                 120                 125
Glu Gln Lys Met Lys Val Pro Ile Met His Gly Gly Phe Arg Thr Ile
    130                 135                 140
Ser Lys Ser Asp His Ala Glu Asp Gly Thr Tyr Leu Asn Glu Ala Phe
145                 150                 155                 160
Gly Leu Phe Leu Pro Leu Pro Glu Glu Asn Leu Ala Ala Val His Glu
                165                 170                 175
Leu Trp Ser Thr Pro Leu Glu Met Ala Pro Tyr Asp Ser Ala Asn Glu
            180                 185                 190
Thr Ser Leu His Asp Leu Ser Glu Arg Gln Phe Glu Trp Ala Tyr Cys
        195                 200                 205
Glu Trp His Ala Ile Cys Leu Gly Ala Ala Asp Leu Gly Gly Arg Leu
    210                 215                 220
Ser Asn Ser Gln Val Ala Gln Ala Leu Ala Asn Phe Ala Gly Ser Thr
225                 230                 235                 240
Pro Phe Arg Gln Phe Trp Lys Thr Val Asp Val Ile Val Gly His Thr
                245                 250                 255
Ala Asn Gly Ile Thr Ile Ile Ser Ala Leu Thr Thr Tyr Gly Thr Gln
            260                 265                 270
Asn Thr Lys Cys Asp Thr Asp Lys Thr Thr Gly Gly Leu Leu Lys Asp
        275                 280                 285
Leu Val Asn Gly Val Ser Thr Glu Gly Leu Thr Asn Ala Val Phe Val
    290                 295                 300
Val Glu Asp Asp Glu Gly Arg Gln Phe Glu Val Gly Ile Gln Leu Arg
305                 310                 315                 320
Pro Met Gly Gly Arg Asn Pro Asn Ser Cys Gly Glu Cys Ala Leu Cys
                325                 330                 335
```

Gln

<210> 23832
<211> 365
<212> PRT
<213> A.fumigatus

<400> 23832

```
Arg Arg Leu Leu Ala Cys Pro Arg Arg Leu Asp Lys Ile Pro Ser His
1               5                  10                  15
Leu Lys Tyr Pro Thr Glu Arg Gln Asp Ser His Tyr Asn Leu Gln Ser
            20                  25                  30
Leu Phe Leu Ile Pro Gln His Ala Arg Met Pro Pro Ala Pro Pro Asp
        35                  40                  45
Gln Lys Pro Cys His Gln Leu Gln Pro Ala Pro Tyr Arg Ala Leu Ser
    50                  55                  60
Glu Ser Ile Leu Phe Gly Ser Val Asp Glu Glu Arg Trp Trp His Ser
65                  70                  75                  80
Thr Ala Pro Ile Leu Ser Arg Leu Leu Ile Ser Ser Asn Tyr Asp Val
                85                  90                  95
Asp Val Gln Tyr Lys Tyr Leu Ser Leu Tyr Arg His Leu Val Leu Pro
            100                 105                 110
Ala Leu Gly Pro Tyr Pro Gln Arg Asp Pro Glu Thr Gly Ile Ile Ala
        115                 120                 125
Thr Gln Trp Arg Ser Gly Met Val Leu Thr Gly Leu Pro Ile Glu Phe
    130                 135                 140
Ser Asn Asn Val Ala Arg Ala Leu Ile Arg Ile Gly Val Asp Pro Val
145                 150                 155                 160
Thr Ala Asp Ser Gly Thr Ala Gln Asp Pro Phe Asn Thr Thr Arg Pro
                165                 170                 175
Lys Val Tyr Leu Glu Thr Ala Ala Arg Leu Leu Pro Gly Val Asp Leu
            180                 185                 190
Thr Arg Phe Ser Glu Phe Glu Thr Glu Leu Val Ile Thr Lys Ala Glu
        195                 200                 205
Glu Ala Val Leu Gln Ala Asn Pro Asp Leu Phe Arg Ser Pro Trp Lys
    210                 215                 220
Ser Gln Ile Leu Thr Ala Met Asp Leu Gln Lys Ser Gly Thr Val Leu
225                 230                 235                 240
Val Lys Ala Tyr Phe Tyr Pro Gln Pro Lys Ser Ala Val Thr Gly Arg
                245                 250                 255
Ser Thr Glu Asp Leu Leu Val Asn Ala Ile Arg Lys Val Asp Arg Glu
            260                 265                 270
Gly Arg Phe Glu Thr Gln Leu Ala Asn Leu Gln Arg Tyr Ile Glu Arg
        275                 280                 285
Arg Arg Arg Gly Leu His Val Pro Gly Val Thr Ala Asp Lys Pro Pro
    290                 295                 300
Ala Thr Ala Ala Asp Lys Ala Phe Asp Ala Cys Ser Phe Phe Pro His
305                 310                 315                 320
Phe Leu Ser Thr Asp Leu Val Glu Pro Gly Lys Ser Arg Val Lys Phe
                325                 330                 335
Tyr Ala Ser Glu Arg His Val Asn Leu Gln Met Val Glu Asp Met Ser
            340                 345                 350
Ser Pro Arg Gly Trp Lys Arg Ala Ala Pro Ser Leu Thr
        355                 360                 365
```

<210> 23833
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23833
Thr Leu Tyr Phe Thr Tyr Val Val Arg Trp Arg Ala Leu Leu Thr Asp
1 5 10 15
Asn Arg Asn Pro Gly Phe Ser Gly Ser Thr Thr Thr Trp Tyr Phe Phe
20 25 30
Asp Lys Ile Phe Ala Leu Met Ser Ala Ser Thr Phe Ser Asp Ala Ser
35 40 45
Leu Ser Arg Glu Ser Gln Arg Phe Val Arg Pro Ser Phe Ala Pro Glu
50 55 60
Trp Ser Ser
65

<210> 23834
<211> 204
<212> PRT
<213> A.fumigatus

<400> 23834
Leu Leu Gly Pro Asp Gly Pro Arg Val Pro Leu Thr Arg Val Tyr Ser
1 5 10 15
Asp Leu Leu Ala Arg Glu Val Val Glu Tyr Gly Asn Arg Gly Leu Arg
20 25 30
Val Ile Ala Leu Ala Ser Val Asp Asp Ile Ala Asp Asn Pro Leu Leu
35 40 45
His Asn Ala Gln Thr Thr Glu Glu Tyr Ala Gln Leu Glu Arg Asn Met
50 55 60
Thr Leu Ile Gly Leu Val Gly Met Leu Asp Pro Pro Arg Thr Glu Val
65 70 75 80
Ala Asp Ser Val Lys Lys Cys Arg Ala Ala Gly Ile Arg Val Ile Val
85 90 95
Ile Thr Gly Asp Asn Arg Asn Thr Ala Glu Ser Ile Cys Arg Gln Ile
100 105 110
Gly Val Phe Gly Glu Asp Glu Asp Leu Thr Gly Lys Ser Phe Thr Gly
115 120 125
Arg Glu Phe Asp Ala Leu Ser Glu Ser Glu Lys Leu Glu Ala Val Lys
130 135 140
Lys Ala Ser Leu Phe Ser Arg Thr Glu Pro Ser His Lys Ser Lys Leu
145 150 155 160
Val Asp Leu Leu Gln Ser Leu Gly His Val Val Ala Met Thr Gly Asp
165 170 175
Gly Val Asn Asp Ala Pro Ala Leu Lys Lys Ala Asp Ile Gly Val Ala
180 185 190
Met Gly Thr Gly Thr Glu Phe Gly Gly Phe Phe Ser
195 200

<210> 23835
<211> 136
<212> PRT
<213> A.fumigatus

<400> 23835

```
Ser Ser Pro Lys Glu Ala Pro Asp Asp His Leu Ile Trp Glu Thr Asp
1               5                  10                  15
Thr Ser Arg Ser Asn Met His Ser Phe Tyr Pro Asp Thr Gln Glu Asp
            20                  25                  30
Cys Tyr Leu Leu Leu Asn Val Phe Leu Ala Asn Ile Asp Pro Ile Val
        35                  40                  45
Arg Ile Val His Cys Pro Ser Leu Ala Arg Arg Phe Asp Gly Leu Ile
    50                  55                  60
Arg Thr Arg Tyr Ser Leu Asp Lys Thr Gln Val Asp Gly Ser Tyr Ser
65                  70                  75                  80
Asn Cys Met Ala Phe Asn Pro His His Ser Ser Ala Phe Glu Pro Leu
                85                  90                  95
Ala Met Ser Ser Phe Tyr Ala Ala Thr Asn Ser Met Lys Thr Ile Asp
            100                 105                 110
Val Ser Thr Val Phe Tyr Thr Asp Lys Ser His Leu Trp Leu Met Tyr
        115                 120                 125
Ser Ser Asp Ile Ser Ile Gln Val
    130                 135
```

<210> 23836
<211> 216
<212> PRT
<213> A.fumigatus

<400> 23836

```
Ser Asn Leu Asn Gln Phe Ser Leu Val Gln Trp Ala Val Ser Trp His
1               5                  10                  15
Pro Ala Gly Lys Gly Ser Tyr Gln Arg Ser Trp Leu Asn Ile Pro Gly
            20                  25                  30
Lys Leu Gly Trp Phe Leu Met Glu Ile Val Gly Pro Ala Lys Leu Leu
        35                  40                  45
Tyr Ile Leu Tyr Lys Leu Pro Pro Ala Leu Asn Ile Thr Ser Leu Pro
    50                  55                  60
Leu Ser Asn Lys Leu Val Ala Ser Leu Tyr Val Ile His Tyr Val Asn
65                  70                  75                  80
Arg Ala Ile Ile Ser Pro Phe Phe Ala Ala Pro Ser Met Ser Pro Met
                85                  90                  95
His Ala Ser Val Val Ser Met Ala Val Leu Phe Asn Trp Leu Asn Ser
            100                 105                 110
Thr Cys Leu Ala Gly Trp Leu Val Gly Tyr His Val Pro Val Leu Gly
        115                 120                 125
Tyr Lys Thr Asp Gly Ala Val Ser Gly Val Pro Gly Gly Pro Ser Ser
    130                 135                 140
Tyr Ser Ala Ala Thr His Phe Leu Pro Cys Leu Gly Met Val Leu Phe
145                 150                 155                 160
Ala Ala Gly Met Ile Gly Asn Ile His Ser Glu Arg Thr Leu Phe His
                165                 170                 175
Leu Arg Arg Glu Ala Ala Glu Lys Arg Asp Ala Ala Asp Lys Ser Asp
            180                 185                 190
Glu Asp Ile Thr Gln His Gly Arg Arg Gly Pro Ser Asp Leu Tyr Pro
        195                 200                 205
Gly Ile Val Leu Val Leu Val Tyr
    210                 215
```

<210> 23837
<211> 186

<212> PRT
<213> A.fumigatus

<400> 23837
Ala Thr Ser Thr Arg Ser Ala Pro Ser Ser Ile Cys Ala Ala Lys Gln
1 5 10 15
Gln Arg Ser Ala Thr Arg Pro Ile Ser Pro Thr Arg Ile Ser Pro Ser
20 25 30
Met Gly Asp Glu Asp His Pro Thr Phe Ile Gln Ala Ser Ser Ser Ser
35 40 45
Ser Ser Thr Asp Ala Asp Ala Asn Ala Asn Ala Lys Gly Arg Lys Asn
50 55 60
Lys Tyr Asp Lys Val Tyr Val Ile Pro Pro Ala Arg Gly Val Phe Arg
65 70 75 80
Ser Ile Leu Tyr Pro His Tyr Ala Phe Glu Trp Leu Glu Trp Leu Gly
85 90 95
Phe Ser Leu Val Gly Thr Ala Val Phe Pro Ala Ala Gln Ala Leu Ala
100 105 110
Tyr Ala Ser Pro Pro Leu Pro Ile Val Pro Trp Leu Lys Pro Ala Ala
115 120 125
Ala Leu Ala Glu Thr Leu Gln Val Pro Leu Pro Leu Pro Ala Val Val
130 135 140
Phe Val Val Asn Ala Val Ala Asn Met Leu Pro His Ala Arg Trp Gly
145 150 155 160
Arg Lys Trp Tyr Val Glu Lys Ser Gly Glu Lys Ala Val Ala Gly Arg
165 170 175
Gly Ala Ala Val Pro Trp Cys Pro Trp Leu
180 185

<210> 23838
<211> 592
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12),(540),(549),(550),(559),(577),(580)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23838
Leu Glu Met Ser Asp Arg Arg Arg Arg Thr Gly Xaa Pro Leu Gly Thr
1 5 10 15
Ala Val Arg Pro Ser Leu Leu Ala Cys Thr Glu Cys Arg Lys His His
20 25 30
Val Lys Cys Asp Ala Lys Lys Pro Ala Cys Ser Arg Cys Leu Asp Ala
35 40 45
Arg Leu Pro Cys Asn Tyr Leu Pro Ser Arg Arg Gly Gly Arg Arg Lys
50 55 60
Pro Arg Ser Ser Leu Leu Pro Pro Leu Gln Gly Val Thr Pro Asp Phe
65 70 75 80
Pro Gly Met Ala Tyr Gln Thr Pro Leu Ser Glu Thr Ala Gly Gly Asn
85 90 95
Pro Thr Thr Gly Pro Ser Ser Ser Pro Val Thr Gly Lys Glu Ala Ser
100 105 110
Ser Val Ala Ser Arg Asn Ser Pro Gln Asn Ala Pro Leu Val Val Pro
115 120 125

```
Asp Ser Arg Phe Val Arg Leu Tyr Tyr Glu His Phe His Asn Ala His
    130                 135                 140
Pro Ile Leu Val Pro Ala Ser Ser Tyr Glu Glu Arg Asn Tyr Pro Ser
145                 150                 155                 160
Phe Leu Gln His Val Val Arg Phe Ile Gly Ser His Tyr Ser Leu Gln
                165                 170                 175
Val Ser Gly Asp Ser Phe Lys Asp Ala Thr Met Leu Gln Leu Ser His
            180                 185                 190
Ser Gly Glu Arg Thr Pro Cys Met Val Gln Ala Leu Leu Leu Tyr Ser
        195                 200                 205
Ile Phe Leu Cys Ala Arg Ser Glu Cys Ser Glu Ala Glu Lys Thr Phe
    210                 215                 220
Ser Gln Ala Thr Asp Ile Ala Leu Glu Leu Gly Met Phe Arg Arg Asp
225                 230                 235                 240
Phe Ala Thr Thr Phe Ser Asn Gly Asn Glu Thr Glu Ala Glu Ser Leu
                245                 250                 255
Arg Arg Thr Trp Trp Glu Leu Phe Ile Val Asp Val Phe Met Ala Ala
            260                 265                 270
Arg Pro Pro Lys Val Val Leu Arg Cys Gly Asn Val Pro Tyr Asp Val
        275                 280                 285
Pro Leu Pro Cys Glu Glu Tyr Val Tyr Ala Asn Arg Lys Glu Ile Pro
    290                 295                 300
Pro Pro Ala Thr Phe Thr Ala Phe Lys Met Arg Val Phe Leu Glu Glu
305                 310                 315                 320
Asp Gly Asp Ala Arg Phe Ser Arg Tyr Ser Ser Phe Ser Tyr Arg Ile
                325                 330                 335
Glu Ala Ala Leu Ile Leu Ala Arg Val Leu Val Leu Asn Ser Leu Pro
            340                 345                 350
Glu Thr His Arg Asp His Leu Gln Ala Val Glu Asn Ala Leu Ile Ser
        355                 360                 365
Trp Thr Asn His Leu Pro Thr His Lys Val Asp Ile Val Asp Met Tyr
    370                 375                 380
Gly Asn Val Asp Glu Met Leu Phe Gln Ala His Thr Thr Ile Gln Tyr
385                 390                 395                 400
Ala Ala Met Leu Leu His Leu Pro Arg Ser Asn Leu Arg Pro Glu Phe
                405                 410                 415
Pro Asp Leu His Val Pro Ile Cys Pro Thr Thr Pro Leu Arg Leu Ser
            420                 425                 430
Pro Ser Cys Thr Arg His Val His Asp Val Lys Ala Thr Glu Ala Ser
        435                 440                 445
Lys Gln Leu Ser Asn Leu Leu Ser Met Arg Pro Ser Ala Gln Gly Tyr
    450                 455                 460
Ser Pro Leu Ile Val Ser Pro Leu Val Leu Cys Gly Met Val Gln Leu
465                 470                 475                 480
Ala Thr Ser Arg Ile His Ser Pro Glu Cys Leu Asp His His Cys Asn
                485                 490                 495
Arg Val Val Leu Val Leu Gly Cys Leu Lys Ile Leu Ser Ser Ser Trp
            500                 505                 510
Pro Leu Ala Arg Gln Ala Gln Gln His Leu Arg Arg Ala Ala Gly Asp
        515                 520                 525
Ser Phe Thr Ser Trp Ile Glu Ser Gln His Leu Xaa Gly Thr Ala Gly
    530                 535                 540
Leu Ala Pro Ala Xaa Xaa Asn Asp Ala Tyr Arg Glu Ser Ser Xaa Asp
545                 550                 555                 560
Gln Asn Thr Trp Phe Ser Thr Gly Arg His Gly Glu Lys Arg Glu Val
                565                 570                 575
```

```
Xaa Ser Leu Xaa Leu Ala Arg His Ala Pro Arg Gly Asn Ser Asn Pro
            580                 585                 590
```

<210> 23839
<211> 171
<212> PRT
<213> A.fumigatus

<400> 23839

```
Gly Phe Asn Pro His Pro Gly Arg Ala Arg Ile Phe Glu Asp Glu Thr
1               5                  10                  15
Asn Thr Asn Val Glu Lys Val Gly Asn Thr Arg Ser Pro Ser Ala His
            20                  25                  30
Gly Gly Arg Ser Thr Ser Arg Ser Arg Arg Thr Pro Cys Leu Arg Met
        35                  40                  45
Lys Gln Arg Arg Ser Asp Leu Arg Ser Ala Phe Ser Ser Ala Gly Glu
    50                  55                  60
Asn His Leu Asp Glu His Lys Lys Gln Pro Asn Gly Glu Asn Glu Pro
65                  70                  75                  80
Gln Gln Glu Pro Tyr Leu Asp Tyr Pro Ile Val Asp Leu Arg Glu Leu
                85                  90                  95
Asp Asp Met Thr Gly Ala Thr Thr Pro Thr Ser Thr Pro Ser Arg Gly
            100                 105                 110
Tyr Leu His Glu Arg Ile Pro Pro Val Pro Pro Leu Pro Lys Asn Leu
        115                 120                 125
Ala Ala Thr Ala Ala Lys Val Asp Arg Arg Leu Ala Arg Glu Leu Trp
    130                 135                 140
Lys Met Lys Asn Ala Gln Met Gln Asp Ser Gly Gln Thr Pro Pro Lys
145                 150                 155                 160
Glu Glu Asp Phe Arg Trp Pro Glu Asp Ile Phe
                165                 170
```

<210> 23840
<211> 179
<212> PRT
<213> A.fumigatus

<400> 23840

```
Thr Asp Thr Pro Ser Ala Asp Pro Pro Ser Pro Val Val Lys Thr Ile
1               5                  10                  15
Gly Val Val Phe Val His Asp Ala Val Gly Pro Val Ala Glu Ala Val
            20                  25                  30
Asp Val Val Phe Gly Val Ala Ala Asp His Gly Asp Glu Gly Glu Glu
        35                  40                  45
Asp Glu Ala Gln Glu Glu Glu Asp Phe Gly Arg Gly His Asp Glu Phe
    50                  55                  60
Gly Phe Ala Val Val Leu Asp Gly Asp Glu Val Gln Arg Glu Ala Asp
65                  70                  75                  80
Asp His Gly His Gly Asp Pro Gly Arg Trp Val Asp Val Asp Leu Pro
                85                  90                  95
Val Val His Asp Glu Gly Asp Gly Gly Val Phe Gly Ala Asp Glu His
            100                 105                 110
Gln Pro Gly Val Glu Ile Asp Pro Ser Pro Arg Gln Ile Phe Met Val
        115                 120                 125
Ser Ala Cys Pro Pro Gly Thr Glu Glu Lys Lys Lys Lys Lys Lys Lys
    130                 135                 140
```

```
Lys Lys Lys Lys Arg Glu Arg Gln Lys Ala Leu Tyr Met Ala Asn Pro
145                 150                 155                 160
Asn Ala Gly Ser Thr Tyr Arg Ala Ala Ser Ser Lys Ile Asp Pro Arg
                165                 170                 175
Met Gly Arg
```

<210> 23841
<211> 170
<212> PRT
<213> A.fumigatus

<400> 23841

```
Ala Gly Gly Ala Ile Arg Arg Pro Gly Val Trp Ile Arg His Val Lys
1               5                  10                  15
Arg Leu Leu Pro Phe Pro Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe
            20                  25                  30
Phe Leu Phe Gly Ser Trp Gly Thr Arg Thr Asp His Glu Tyr Leu Ser
        35                  40                  45
Arg Gly Trp Val Tyr Phe Tyr Ala Gly Leu Met Leu Val Cys Thr Glu
    50                  55                  60
Tyr Ser Ala Val Ala Phe Ile Met Asp Tyr Trp Gln Ile Asp Val Asn
65                  70                  75                  80
Pro Ala Ala Trp Val Ala Met Ala Met Val Ile Cys Leu Ala Leu Asn
                85                  90                  95
Leu Val Ala Val Lys Tyr Tyr Gly Glu Ala Glu Phe Ile Met Ala Ser
            100                 105                 110
Thr Lys Ile Leu Leu Leu Leu Gly Leu Ile Phe Leu Thr Phe Ile Thr
        115                 120                 125
Met Val Gly Gly Asn Pro Lys His Asp Val Tyr Gly Phe Arg His Trp
    130                 135                 140
Thr Asn Gly Val Met Tyr Glu Tyr Tyr Thr Asp Gly Leu His His Gly
145                 150                 155                 160
Ala Gly Arg Ile Arg Thr Trp Arg Ile Ser
                165                 170
```

<210> 23842
<211> 120
<212> PRT
<213> A.fumigatus

<400> 23842

```
Ser Ile Val His Arg Tyr Met Leu Ala Ala Met Glu Lys Lys Ala Val
1               5                  10                  15
Leu Asp Asp Arg Gln Asp Thr Asp Ala Gly Ser Ile Val Pro Phe Pro
            20                  25                  30
Gln Thr Gln Arg Gly Leu Thr Ser Arg His Val Gln Leu Met Ala Ile
        35                  40                  45
Gly Gly Ser Ile Gly Thr Gly Leu Phe Val Gly Ile Gly Ala Tyr Leu
    50                  55                  60
Arg Asp Ala Gly Pro Leu Ser Leu Leu Leu Gly Tyr Leu Val Trp Gly
65                  70                  75                  80
Ile Ala Phe Ile Leu Pro Ile Asn Leu Ser Val Gly Glu Met Cys Ala
                85                  90                  95
Tyr Leu Pro Ile Arg Gly Ser Ile Phe Glu Leu Ala Ala Arg Tyr Val
            100                 105                 110
```

```
Asp Pro Ala Phe Gly Phe Ala Met
        115                 120

<210> 23843
<211> 94
<212> PRT
<213> A.fumigatus

<400> 23843
Cys Ile Val Leu Ala Gln His Asp Lys Asn Asp Arg Ile Glu Ser Leu
1               5                   10                  15
Ser Thr Cys Gln Ile Ile Met Pro Thr Leu Pro Thr Arg Pro Leu Gly
            20                  25                  30
Lys Asn Gly Pro Gln Val Pro Arg Leu Gly Phe Gly Leu Met Gly Leu
        35                  40                  45
Ser Thr Phe Tyr Gly Thr Ala Lys Pro Asp Ser Glu Arg Leu Ala Leu
    50                  55                  60
Leu Asp Ala Ala Tyr Glu Leu Gly Glu Thr Phe Trp Asp Ser Gly Met
65                  70                  75                  80
Tyr Phe Pro Leu Thr Asp His Glu Asp His Ser Arg Ser Ile
                85                  90

<210> 23844
<211> 100
<212> PRT
<213> A.fumigatus

<400> 23844
Pro Thr Cys Thr Ala Thr Ala Arg Thr Ser Ser Ala Asn Gly Ser Lys
1               5                   10                  15
Pro Thr Pro Pro Asn Glu Thr Thr Ser Ser Ser Pro Pro Asn Leu Arg
            20                  25                  30
Thr Ala Trp Ala Gln Thr Asp Asn Ala Ser Ser Ser Leu His Arg Asn
        35                  40                  45
Thr Arg Ala Lys His Ala Ile Ala Pro Ser Pro Val Ser Ala Ser Arg
    50                  55                  60
Pro Ser Thr Cys Thr Thr Ala Thr Gly Ser Thr Gly Arg Pro Pro Leu
65                  70                  75                  80
Lys Arg Pro Ser Lys Pro Trp His Ser Ser Arg Arg Lys Ala Arg Ser
                85                  90                  95
Asp Thr Ser Val
            100

<210> 23845
<211> 196
<212> PRT
<213> A.fumigatus

<400> 23845
Arg Pro Leu Thr Val Asn Leu Ala Asp Met Tyr Gly Asp Ser Glu Asp
1               5                   10                  15
Leu Leu Gly Lys Trp Phe Gln Ala Asn Pro Ser Lys Arg Asp His Ile
            20                  25                  30
Phe Leu Ala Thr Lys Phe Ala Asn Arg Val Gly Pro Asp Gly Gln Arg
        35                  40                  45
Phe Val Glu Ser Ser Pro Glu Tyr Ala Arg Glu Ala Cys His Arg Ser
```

```
    50                  55                  60
Leu Ala Arg Leu Gly Val Lys Thr Ile Asp Leu Tyr Tyr Cys His Arg
65                  70                  75                  80
Leu Asp Arg Lys Thr Pro Ile Glu Lys Thr Val Glu Ala Met Ala Gln
                85                  90                  95
Leu Lys Ala Glu Gly Lys Ile Arg Tyr Leu Gly Leu Ser Glu Cys Ser
            100                 105                 110
Ala Asp Ser Leu Arg Arg Ala His Lys Val His Pro Ile Thr Ala Val
        115                 120                 125
Gln Met Glu Tyr Ser Pro Phe Ala Leu Glu Ile Glu Ser Pro Gln Tyr
    130                 135                 140
Arg Leu Leu Glu Thr Ala Arg Glu Leu Gly Val Ala Val Val Ala Tyr
145                 150                 155                 160
Ser Pro Leu Ser Arg Gly Phe Leu Thr Gly Ala Ile Thr Ser Pro Asp
                165                 170                 175
Asp Phe Glu Glu Gly Asp Phe Arg Arg Met Ser Pro Arg Phe Ser Ser
            180                 185                 190
Leu His Arg Arg
        195
```

<210> 23846
<211> 127
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53),(54),(69),(98),(102),(104)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23846

```
Ser Met Lys Leu Leu Leu Ser Leu Leu Ile Cys Ile Ala Ala Val Phe
1               5                   10                  15
Leu Ser Tyr Gln Phe Ala Ser Asn Ser Ala His Leu Glu Ser Leu Ser
            20                  25                  30
Ala Ser Leu Arg Glu Gln Leu Pro Ile Ala Leu Ser Gln Tyr Leu Arg
        35                  40                  45
Arg Asn Asn Ile Xaa Xaa Thr Phe Phe Val Pro Pro Leu Thr His Thr
    50                  55                  60
Glu Pro Ile Ile Xaa Pro Leu Thr Asp Met Ala Val Pro Arg Ala Ile
65                  70                  75                  80
Arg Gln Val Phe Leu Ala Ile Glu Lys Ala Glu Gly Ala Gly Ala Arg
                85                  90                  95
Val Xaa Arg Ser Asn Xaa Thr Xaa Lys Leu Arg Asn Phe Asn Pro Phe
            100                 105                 110
Leu Met Leu Glu His Leu Thr Ile Arg Pro Gly Ala Gly Phe Pro
        115                 120                 125
```

<210> 23847
<211> 77
<212> PRT
<213> A.fumigatus

<400> 23847

```
Tyr Cys Arg Glu Phe Trp Ser Lys Gly Ile Arg Leu Val Val Ala Cys
1               5                   10                  15
```

```
Ala Glu Met Tyr Glu Ala Phe Val Ser Gln Val Pro Gly Leu Leu Ala
            20                  25                  30
Gln Leu Lys Tyr Tyr Pro Ser Gln Ala Pro Ser Thr Asp Ser Leu Gly
        35                  40                  45
Ser Arg Ile Pro Leu Cys Ser Asn Ser Val Ala Leu Leu Phe Arg Thr
    50                  55                  60
Gly Ala Asn Arg Tyr Leu Glu Arg Pro Gln Thr Pro Ser
65                  70                  75
```

<210> 23848
<211> 506
<212> PRT
<213> A.fumigatus

<400> 23848

```
Ser His Phe Thr Cys Ser Tyr Ser Asn Phe Ala Ser Cys Gly Thr Ile
1               5                   10                  15
Met Pro Pro Ala Phe Glu Phe Arg Gly Asn Asp Arg Arg Ser His Asn
            20                  25                  30
Asn Asn Asn Pro Arg His Glu Phe Thr Phe Arg Tyr Ala Arg Ser Gly
        35                  40                  45
Thr Gly Glu Arg Thr Leu Leu Thr Thr Lys Arg Glu Thr Thr Pro Glu
    50                  55                  60
Pro Ile Leu Gly Ala Thr Ala Gly Asp Glu Lys Pro Ala Met Lys Phe
65                  70                  75                  80
Ala Pro Ile Ser Ser Leu Ser Asp Ser Glu Glu Ala Glu Met Asp Met
                85                  90                  95
Ser Asp Asp Asp Lys Asp Asp Glu Ala Ser His Pro Arg Lys Lys Arg
            100                 105                 110
Ala Leu Gly Thr Asn Thr Ala Ala Ala Pro Thr Pro Ala Pro Val Thr
        115                 120                 125
Ala Pro Lys Trp Ser Asn Pro Asp Pro Tyr Thr Val Leu Pro Pro Pro
    130                 135                 140
Asp Glu Thr Leu Gly Lys Arg Val Asp Val Val Lys Leu Ile Arg Lys
145                 150                 155                 160
Ala Arg Ile Thr Glu Asn Ala Lys Gln Pro Ala Pro Ala Asp Ala Val
                165                 170                 175
Thr Thr Asn Glu Asp Phe Ile Ser Phe Ser Gly Leu Ile Asp Glu Glu
            180                 185                 190
Glu Glu Ala Arg Met Lys Val Ser Asp Asn Ala Pro Ser Gly Pro Lys
        195                 200                 205
Arg Leu Gln Gly Arg Asp Ser Ala Pro Gly Ser Arg Lys Arg Thr His
    210                 215                 220
Asp Asp Glu Ile Lys Gly Tyr Ser Lys Lys Thr Gly Arg Pro Met Val
225                 230                 235                 240
Arg Phe Tyr Asp Asp Gly Ser Ile Ile Asp Glu Trp Arg Ala Arg Ser
                245                 250                 255
Gln Glu Asp Ala Thr Pro Trp Met Leu Leu Met Glu Pro Ser Leu His
            260                 265                 270
Leu Gly Ser Arg Leu His Asn Glu Ile Leu Ser Phe Tyr His Trp Val
        275                 280                 285
Lys Pro Met Gln Tyr Glu Gln Ile Val Arg Ala Asp Leu Ile Thr Arg
    290                 295                 300
Leu Gln Val Ala Phe Gln Ser Arg Tyr Tyr Gly Val Gln Leu Arg Pro
305                 310                 315                 320
Phe Gly Ser Phe Ala Ser Gly Leu Tyr Leu Pro Thr Ala Asp Ile Asp
```

```
                325                 330                 335
Leu Val Leu Leu Ser Ser Asn Phe Met Arg Asn Gly Ile Lys Thr Phe
            340                 345                 350
Gly Glu Arg Lys Gly Gln Ile Tyr Ala Phe Ala Ala Phe Leu Lys Asn
        355                 360                 365
Leu Glu Ile Ala Val Pro Asn Ser Ile Glu Thr Ile Ala His Ala Arg
    370                 375                 380
Val Pro Ile Leu Lys Phe Val Asp Lys Met Thr Gly Leu Arg Val Asp
385                 390                 395                 400
Leu Ser Phe Asp Asn Asp Ser Gly Leu Ile Ala Asn Asn Thr Phe Gln
                405                 410                 415
Asn Trp Lys Ser Glu Tyr Pro Ala Met Pro Val Ile Val Ala Val Val
            420                 425                 430
Lys Gln Phe Leu Leu Leu Arg Gly Leu Asn Glu Val Pro Thr Gly Gly
        435                 440                 445
Leu Gly Gly Phe Ser Ile Thr Cys Leu Val Thr Ser Leu Leu Gln His
    450                 455                 460
Leu Pro His Gly His Thr Ala Pro Asn Leu Gly Ser Ile Leu Met Asp
465                 470                 475                 480
Phe Phe Glu Phe Tyr Gly Asn Asn Phe Asp Phe Glu Lys Ser Ser Pro
                485                 490                 495
Arg Gly Trp Lys Asp Pro Ser Gly Leu Gln
            500                 505
```

<210> 23849
<211> 86
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10),(21),(28),(32),(33),(42)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23849

```
Pro Leu Pro Pro Phe Ala Val His Phe Xaa Pro Cys Ser Gly Ile Leu
1               5                   10                  15
Ser Lys Gly Pro Xaa Ile Val Leu Asn Asn Tyr Xaa Leu Thr Ser Xaa
            20                  25                  30
Xaa Pro Pro Val Ser Arg Arg Ser Leu Xaa Arg Pro Ile Ser Glu Phe
        35                  40                  45
His Ile Asp Ser Phe Leu Phe Leu Ser Phe Ile Ala Tyr Arg Ser Leu
    50                  55                  60
Cys Met Arg Gly Phe Phe Ser Pro Thr Ser His Leu Thr Leu Leu Ala
65                  70                  75                  80
Ile Asn Gln Ser Tyr Arg
                85
```

<210> 23850
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23850

```
Val Ile Phe Gln Ser Leu Ser Asn Asn Asn Phe Phe Phe Phe Phe Phe
1               5                   10                  15
```

```
Phe Phe Phe Leu Phe Phe Asn Met Ser Arg Ser Asp Thr Ser Ser Leu
            20                  25                  30
Leu Asp Tyr Pro Glu Ala Ala Gly Ser Met Gly Phe Arg Gly Ser Ser
        35                  40                  45
Pro Ser Pro Thr Asn Glu Ile Ser Pro Cys Leu Pro Ser Cys Arg Arg
    50                  55                  60
```

<210> 23851
<211> 319
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23851

```
Trp Glu Thr Pro Leu Phe Ile Arg Xaa Lys Ala Thr Phe Gly Arg Lys
1               5                   10                  15
Pro Glu Arg Asn Ile Phe Gly Lys Ala Glu Phe Gln Asn Pro Gly Gly
            20                  25                  30
Ser Val Lys Asp Arg Ala Ala Leu Phe Val Val Lys Asp Ala Glu Glu
        35                  40                  45
Lys Gly Leu Leu Lys Pro Gly Gly Thr Val Val Glu Gly Thr Ala Gly
    50                  55                  60
Asn Thr Gly Ile Gly Leu Ala His Val Cys Arg Ser Lys Gly Tyr Lys
65                  70                  75                  80
Leu Val Ile Tyr Met Pro Asn Thr Gln Ser Gln Gly Lys Ile Asp Leu
                85                  90                  95
Leu Arg Leu Leu Gly Ala Glu Val Tyr Pro Val Pro Ala Val Ala Phe
            100                 105                 110
Asp Asn Pro Gln Asn Tyr Asn His Gln Ala Arg Arg His Ala Glu Ser
        115                 120                 125
Leu Glu Asn Ala Val Trp Thr Asn Gln Phe Asp Asn Thr Ala Asn Arg
    130                 135                 140
Gln Ala His Ile Glu Thr Thr Gly Pro Glu Ile Trp Ala Gln Thr Asp
145                 150                 155                 160
Gly Lys Val Asp Ala Phe Thr Cys Ala Thr Gly Thr Gly Gly Thr Leu
                165                 170                 175
Ala Gly Ile Thr Arg Tyr Leu Lys Thr Ala Ser Asp Gly Arg Val Lys
            180                 185                 190
Cys Phe Leu Ala Asp Pro Pro Gly Ser Val Leu His Ser Tyr Ile Gln
        195                 200                 205
Ser Gly Gly Asn Leu Ile Glu Arg Ser Gly Ser Ser Ile Thr Glu Gly
    210                 215                 220
Ile Gly Gln Gly Arg Val Thr Asp Asn Leu Lys Pro Asp Ile Asp Leu
225                 230                 235                 240
Leu Asp Gly Ser Leu Thr Ile Ser Asp Glu Lys Ser Ile Glu Met Val
                245                 250                 255
Tyr Arg Cys Ile Asp Glu Glu Gly Leu Tyr Met Gly Ala Ser Ser Ala
            260                 265                 270
Leu Asn Val Val Ala Ala Lys Glu Val Asp Glu Gln Leu Pro Lys Gly
        275                 280                 285
Ser Asn Val Val Thr Ile Leu Cys Asp Gly Ala Tyr Arg Tyr Ala Asp
    290                 295                 300
```

```
Arg Leu Leu Ser Ser Thr Trp Val Gln Ser Lys Gly Leu Arg Arg
305                 310                 315

<210> 23852
<211> 159
<212> PRT
<213> A.fumigatus

<400> 23852
Leu Asn Ser Ser Thr Val Asp Pro Ser Ser Pro Val Val Lys Thr Ser
1               5                   10                  15
Ser His Pro Val Leu Val Ser Ala Gln Gly Val Asp Phe Thr Ile Val
            20                  25                  30
Gly Ser Pro Ser Gln Arg Leu Cys Thr Val Pro Arg Trp Glu Cys Ile
        35                  40                  45
Gly Arg Lys Ser Gly Val Asp Glu Ser Glu Val Arg Phe Val Ile Asn
    50                  55                  60
Ile Asp Glu Ile Met Val Val Leu Val His Leu Asn Trp Gly Gln Leu
65                  70                  75                  80
Thr Leu Val Asp Asn Val Ser Val Ala Gln Gly Ala Gln Ile Glu Pro
                85                  90                  95
Ile Ser Glu Thr Asn Asp Val Ser Gly Ser Phe Pro Lys Asn Ile Glu
            100                 105                 110
Leu Ala Leu Lys Gly Pro Leu Val Glu Arg Leu Arg Ile Gly Val Phe
        115                 120                 125
Trp Leu Ile Ser Leu Thr Ile Cys Gly Leu Gln Asp His Lys Trp Leu
    130                 135                 140
His Asp Asp Arg Leu Ser Gly Gln Ser Ser Arg Ser Gln Asp Gly
145                 150                 155

<210> 23853
<211> 259
<212> PRT
<213> A.fumigatus

<400> 23853
His Leu Ser Ser Leu Ile Ala Arg Asn Leu Leu Cys Asn Met Thr His
1               5                   10                  15
Arg Gly Ala Val Gly Ser Asp Ala Arg Asp Gly Asp Gly Ala Gly Val
            20                  25                  30
Met Thr Ser Ile Pro His Lys Phe Phe Ile Lys Asn Phe Ala Arg Glu
        35                  40                  45
Val Gly Val Glu Leu Pro Pro Leu Gly Gln Tyr Ala Val Gly Asn Leu
    50                  55                  60
Phe Phe Lys Pro Asp Gln Glu Ser Leu Lys Glu Ser Thr Ala Lys Leu
65                  70                  75                  80
Glu Glu Ile Ala Glu Ser Leu Gly Leu Arg Val Leu Gly Trp Arg Glu
                85                  90                  95
Val Pro Arg Asp Ser Thr Ile Leu Gly Pro Ala Ala Leu Ser Arg Glu
            100                 105                 110
Pro Ile Ile Met Gln Pro Phe Val Val Leu Lys Ser Ala Tyr Gly Glu
        115                 120                 125
Gly Asn Lys Pro Glu Asn Thr Asp Pro Glu Ser Phe Asp Glu Arg Thr
    130                 135                 140
Phe Glu Arg Gln Leu Tyr Val Leu Arg Lys Arg Ala Thr His Val Ile
145                 150                 155                 160
```

```
Gly Leu Ala Asn Trp Phe Tyr Leu Cys Ser Leu Ser Asn Arg Asn Ile
                165                 170                 175
Val Tyr Lys Gly Gln Leu Ala Pro Val Gln Val Tyr Gln Tyr Tyr His
            180                 185                 190
Asp Leu Val Asn Val Asp Tyr Glu Ala His Phe Ala Leu Val His Ser
        195                 200                 205
Arg Phe Ser Thr Asn Thr Phe Pro Ser Trp Asp Arg Ala Gln Pro Leu
    210                 215                 220
Arg Trp Ala Ala His Asn Gly Glu Ile Asn Thr Leu Arg Gly Asn Lys
225                 230                 235                 240
Asn Trp Met Arg Ala Ser Leu His His Gly Ala Gly Arg Ile His Ser
                245                 250                 255
Ala Thr Ile
```

<210> 23854
<211> 144
<212> PRT
<213> A.fumigatus

<400> 23854

```
Leu Pro Ala Asn Ala Ser Arg Gly Gly Ala Gly Ser Ala Trp Leu Phe
1               5                   10                  15
Asp Arg Gly Asp Val Ala Ser Glu Val Glu Asp Gly Gly Ala Val Tyr
            20                  25                  30
Ser Ala Glu Arg Gly Glu Gly Tyr Ala Gly Cys Lys Gly Gly Gly Val
        35                  40                  45
Arg Glu Gly Gly Gly Val Cys Asp Cys Arg Gly Gly Asp Thr Lys Pro
    50                  55                  60
His Gly Arg Arg Ala Ser His Leu Arg Tyr Gly Arg Val Cys Gly Arg
65                  70                  75                  80
Phe Gln Arg Tyr Ala Gly Ala Val Ser Ala Gly Ser Gly Arg Phe Ser
                85                  90                  95
Val Asp Glu Arg Gly Glu Gly Arg His Ala Ala Asp Ser Arg Gly Gly
            100                 105                 110
Gly Cys Leu Gly Gly Gly Tyr Gly Val Arg Ala Gly Ser Ser Asp Gly
        115                 120                 125
Val Arg Gly Pro Gln Gly Ser Gly Gly Asp Gly Gln Val Pro Gly Gly
    130                 135                 140
```

<210> 23855
<211> 306
<212> PRT
<213> A.fumigatus

<400> 23855

```
Leu Gly His His Val Pro Val Arg Lys Val Asp Arg Ala Ile Lys Pro
1               5                   10                  15
Gly Gly Asn Pro Ile Lys Gly Phe Trp Gly Ile Asn Gly Ala Gly Thr
            20                  25                  30
Arg Phe Gln Gln Trp Glu Asp Asn Gly Asp Val Phe Phe Gln Asp Thr
        35                  40                  45
Leu Arg Ser Ala Gly Gln Ala Phe Thr Arg Ala Ser Ser Asp Glu Arg
    50                  55                  60
Ala Arg Arg Glu Thr Leu Ile Ser Thr Leu Ala Ser Arg Ser Ala Asp
65                  70                  75                  80
```

```
Ala Val His Trp Leu Val Asp Glu Lys Gly Val Asp Leu Ser Lys Val
                85                  90                  95
Ala Pro Leu Gly Gly His Ser Phe Pro Arg Thr His Arg Gly Ala Gly
            100                 105                 110
Arg Asp Pro Pro Gly Phe Ser Ile Val Gly Thr Leu Leu Arg Lys Leu
        115                 120                 125
Lys Met Glu Gly Leu Phe Thr Leu Arg Asn Gly Ala Arg Val Thr Arg
    130                 135                 140
Val Val Lys Glu Glu Gly Cys Val Lys Gly Val Glu Tyr Val Thr Val
145                 150                 155                 160
Glu Gly Glu Thr Gln Asn His Thr Val Glu Gly Pro Val Ile Phe Ala
                165                 170                 175
Thr Gly Gly Phe Ala Gly Asp Ser Ser Gly Met Leu Ala Gln Tyr Arg
            180                 185                 190
Pro Asp Leu Ala Asp Phe Pro Ser Thr Asn Glu Ala Arg Glu Gly Thr
        195                 200                 205
Gln Pro Ile Leu Glu Ala Val Gly Ala Ser Val Val Asp Met Glu Cys
    210                 215                 220
Val Gln Val His Pro Thr Gly Phe Val Asp Pro Lys Asp Pro Ala Ala
225                 230                 235                 240
Met Ala Lys Phe Leu Ala Ala Glu Met Leu Arg Gly Glu Gly Gly Ile
                245                 250                 255
Leu Leu Asn Ser Asp Gly Ser Arg Phe Val Asn Glu Leu Glu Thr Arg
            260                 265                 270
Gln His Val Val Asp Ala Ile Arg Gln Ser Thr Ser Pro Met Glu Thr
        275                 280                 285
Ala Thr Arg Gln Trp Asp Val Thr Leu Leu Leu Asp Glu Phe Ser Pro
    290                 295                 300
Ala Val
305
```

<210> 23856
<211> 84
<212> PRT
<213> A.fumigatus

<400> 23856

```
Leu Leu Arg Gln Met Trp Met Gly Thr Tyr Pro Thr Val Pro Ser Lys
1               5                   10                  15
Ile Leu Ala Thr Gly Glu Met Leu Ala Asp Tyr Ile Lys Asn Asn Pro
            20                  25                  30
Gln Leu Ile Gly Lys Ala Val Leu Asp Arg Tyr Gly Pro Glu Ile Pro
        35                  40                  45
Phe Leu Pro Lys Val His Thr Val Ser Arg Lys Thr Thr Cys Met Thr
    50                  55                  60
Leu Thr Asn Glu Tyr Ser Asp Pro Ile Leu Arg Gln Ser Pro Pro Thr
65                  70                  75                  80
Ser Asn Pro Pro
```

<210> 23857
<211> 147
<212> PRT
<213> A.fumigatus

<400> 23857

```
Leu Met Asn Thr Gln Ile Leu Ser Phe Ala Lys Ala Leu Pro Leu Gln
1               5                  10                  15
Ile His Pro Asp Lys Ala Leu Ala Glu Lys Leu His Ala Thr Asp Pro
            20                  25                  30
Lys Lys Phe Gly Asp Pro Asn His Lys Pro Glu Ile Ala Ile Ala Leu
        35                  40                  45
Ser Asn Phe Glu Leu Phe Ala Gly Phe Lys Pro Leu Lys Asp Ile Glu
    50                  55                  60
Ser Leu Met Lys Leu Lys Pro Leu Glu Arg Phe Val Pro Pro His Asp
65                  70                  75                  80
Thr Phe Asp Asp Glu Leu Leu Arg Gln Ile Cys Lys Ala Leu Leu Ser
                85                  90                  95
Ala Pro Pro Val Ala Val Ala Glu Thr Ile Asn Glu Leu Gln Ser Ile
            100                 105                 110
Pro Glu Pro Gln Phe Gly Pro Asn Ser Ser Tyr Ile Pro Gly Met Leu
        115                 120                 125
Glu Arg Leu Arg Lys Gln Tyr Cys Leu Gln Pro Pro Gly Leu Glu Gly
    130                 135                 140
Pro Ala Leu
145
```

<210> 23858
<211> 372
<212> PRT
<213> A.fumigatus

<400> 23858

```
Arg His Gln Pro Arg Pro Ser Ala Ser Pro Phe Ala Gln Arg Met Gln
1               5                  10                  15
Gln Tyr Gln Tyr Gly Gln Gln Pro Pro Ala Ser Asn His Asn Pro Val
            20                  25                  30
Gly Gln Ser Pro Ala Gln Pro Gln Ala Thr Ala Gln Pro Gln Gly Asn
        35                  40                  45
Trp Arg Thr Asn Gln Pro Leu Asn Arg Thr Ala Ala Asn Tyr Asn Arg
    50                  55                  60
Pro Thr Trp Asn His Asn Gly Arg Gln Ser Trp Asn Gln Gly Pro Ser
65                  70                  75                  80
Arg Val Gly Pro Pro Arg Glu Arg Ala Tyr Ala Ala Asn Val His Val
                85                  90                  95
Glu Pro Thr Val Glu His Pro Ser Pro Ser Pro Arg Tyr Asp Glu Pro
            100                 105                 110
Glu Tyr Ser Pro Tyr Val Glu Ser Asn Glu Arg Tyr Glu Ser Asn Glu
        115                 120                 125
Pro Tyr Asp Gln His Asp Gln Pro Asp Asp Glu Asp Pro Gly Tyr Gln
    130                 135                 140
Ala Phe Leu His His Pro Ala Phe Glu Arg Gly Asp Phe Pro Glu Ser
145                 150                 155                 160
Lys Asp Glu Pro Cys Ala Phe Ala Val Asp Val Gly Pro Val Val Thr
                165                 170                 175
Thr Cys Asn Gly Cys Gly Ala Thr Phe Pro Ser Arg Asn Arg Leu His
            180                 185                 190
Thr His Leu Ser Glu Cys Pro Arg Thr Gln Glu Pro Ile Pro Val Thr
        195                 200                 205
Pro Thr Thr Asn Asp Pro Thr Ala Val Arg Ile Ile Glu Ser Thr His
    210                 215                 220
Lys Pro Thr Gly Leu Val Gly Ile Arg Ser Trp Arg Cys Ala Thr Ala
```

```
225                 230                 235                 240
Lys Ile Gly Ile Asn Ser Thr Ser Glu Tyr His Glu Ile Cys Leu Asp
                245                 250                 255
Thr Gly Cys Ser Ser Thr Ile Gly Asn Thr Glu Phe Ile Glu Ala Leu
            260                 265                 270
Pro Ser Val Thr Ile Thr Glu Leu Thr Asp Gly Ile Thr Val Ser Gly
        275                 280                 285
Ile Gly Ser Arg His Arg Ser Asn Arg Ser Ala Met Leu Thr Leu Trp
    290                 295                 300
Phe Pro Gly Leu Met Asn Asp Gly Gly Ser Ala Asn Ala Phe Ala Lys
305                 310                 315                 320
Ile Thr Ile Arg Cys His Leu Val Asp Gly Leu Lys Pro Lys Leu Leu
                325                 330                 335
Ile Gly Thr Asp Val Ile Cys Gly Glu Gly Phe Met Leu Asn Phe Glu
            340                 345                 350
Arg Gly Ile Ala Thr Phe Gly Ser Cys Ser Ser Ile Asn Leu Pro Asn
        355                 360                 365
His Arg Ala Ser
    370
```

<210> 23859
<211> 94
<212> PRT
<213> A.fumigatus

```
<400> 23859
Pro Ala Gly Arg Ile Asn Leu Asp Trp Asn His Tyr Ile Ser Ser Tyr
1               5                   10                  15
Trp Leu Thr Met Ser Ser Pro Ser Ser Lys Ser Ala Thr Lys His Pro
            20                  25                  30
Leu Gln Leu Ser Ser Leu Val Pro Leu Pro Lys Gly Thr Ser Leu Ile
        35                  40                  45
Pro Thr Ser Thr Pro Ala Pro Pro Ile Pro Gln Thr Thr Leu Phe Tyr
    50                  55                  60
Tyr Leu Asn Pro Leu Glu Phe Pro Thr Ile Gly Thr Ser Ile Ser Pro
65                  70                  75                  80
Lys Phe Glu Phe Pro Leu Pro Ser Ser Ile Leu Lys Asn Leu
                85                  90
```

<210> 23860
<211> 166
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (162),(164),(166)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 23860
Thr Asp Leu Pro Lys Asn Ala Thr Leu Phe Leu Cys Ser Thr Val Pro
1               5                   10                  15
Ala Ser Tyr Ala Gln Ser Val Ala Ala Glu Leu Gln Ser Arg Gly Arg
            20                  25                  30
Ala Asp Ile Arg Phe Ile Asp Cys Pro Val Ser Gly Gly Ala Lys Arg
        35                  40                  45
```

```
Ala Ala Asp Gly Thr Leu Ser Ile Met Ala Gly Ala Ser Glu Glu Ala
    50                  55                  60
Leu Asn Ser Gly Arg Glu Ile Leu Gln Val Met Ser Asp Gln Asn Lys
65                  70                  75                  80
Leu Tyr Leu Val Pro Gly Gly Val Gly Ala Gly Ser Asn Met Lys Met
                85                  90                  95
Val His Gln Val Leu Ala Gly Ile His Ile Leu Gly Ala Ser Glu Ala
            100                 105                 110
Met Gly Phe Ala Ala Gln Leu Gly Leu Asp Ala Lys Thr Thr Ala Glu
        115                 120                 125
Lys Ile Ile Gly Ser Glu Ala Trp Thr Trp Met His Glu Asn Arg Leu
    130                 135                 140
Gln Arg Met Val Glu Glu Asp Trp Asn Ser Val Ser Arg Gly Pro Gly
145                 150                 155                 160
Pro Xaa Leu Xaa Asp Xaa
                165
```

<210> 23861
<211> 131
<212> PRT
<213> A.fumigatus

```
<400> 23861
Thr Leu Lys Arg Val Gly Phe Ala Ser Arg Ser Asn His Lys Phe Asn
1               5                   10                  15
Pro Thr Phe Arg Val His Thr Tyr Lys Gly His Gln Ile Ile Thr Met
            20                  25                  30
Ser Lys Pro Thr Ile Gly Phe Val Gly Pro Gly Ala Met Gly Phe Arg
        35                  40                  45
Met Ala Thr Asn Leu Val Arg Glu Gly Tyr Pro Val Val Gly Cys Asp
    50                  55                  60
Val Phe Pro Ala Ser Val Gln Arg Phe Gln Ser Gln Gly Gly Ile Pro
65                  70                  75                  80
Ala Ser Ser Leu Arg Glu Ser Ala Glu Gly Lys Asp Phe Tyr Ile Cys
                85                  90                  95
Met Val Ala Ser Ala Pro Gln Val Gln Ser Val Leu Phe Gly Asp Asp
            100                 105                 110
Gly Val Val Gln Cys Thr Leu Leu Pro Leu Gln Ala Ser Gln Tyr Glu
        115                 120                 125
Glu Gln Arg
    130
```

<210> 23862
<211> 69
<212> PRT
<213> A.fumigatus

```
<400> 23862
Asn Thr Ser Ser Ser Ile His Val Thr Thr Pro Ser Val Ala Ser Gln
1               5                   10                  15
Ser Gly Leu Thr Ile Thr Pro Leu Arg Trp Val Ala Gly His Ser Gln
            20                  25                  30
Gln Glu Gly Glu Ser Thr Ala Tyr Thr Ile Arg Leu Thr Thr Ser Val
        35                  40                  45
Val His Ser Lys Trp Ile Glu Arg Asn Cys Leu His His Gly Ala Gly
    50                  55                  60
```

Arg Ser Arg Ala Ile
65

<210> 23863
<211> 321
<212> PRT
<213> A.fumigatus

<400> 23863
Ile Ile Gln Leu Gln Asn Arg Glu Val Ser Cys Tyr Val Gly Met Leu
1 5 10 15
Tyr Leu Phe Arg Ser Val Met Glu Arg Lys Gly Leu Ala Ser Val Trp
20 25 30
Val Met Glu Lys Arg Gly Gly Phe Ile Trp Val Leu Glu Glu Ile Gln
35 40 45
Glu Asn Val Ala Tyr Ile Phe Cys Asp Asp Ser Trp Thr Ile Thr Gly
50 55 60
Thr Arg Gly Glu Thr Asp Lys Ile Trp Gly Gln Gly Val Val Lys Leu
65 70 75 80
Gly Ser His Ile Thr Asp Leu Leu Pro His Leu Pro Thr Asp Cys Leu
85 90 95
Lys Ala Ser Pro Ser Lys Gly Ile Leu Lys Leu Ala Asp Ile Lys Tyr
100 105 110
Phe Ala Ala Arg Ala Ser Ala Glu Ile Cys Ile Pro Ala Ile Val Gly
115 120 125
Lys Glu Glu Asp Pro Arg Cys Leu Arg Val Ser Ser Phe Pro His Val
130 135 140
Ala Gly Met Met Val Leu Ser Ser Ser Thr Leu Lys Val Ile Ser Ser
145 150 155 160
Asn Pro Val Phe Ser Ser Ala Leu Phe Gly His Ala Arg Pro Glu Gly
165 170 175
Met His Val Asn Asp Leu Ile Pro Gly Phe Asp Thr Leu Leu Asn Val
180 185 190
Leu Ser Glu Glu Glu Asn Leu Pro Leu Val Glu Gly Val Val Ile Pro
195 200 205
Glu Pro Ser Phe Arg Arg Ala Arg Thr Leu Ser Ile Leu Arg Asp Gly
210 215 220
Lys Ala Asn Val Ala Ser Val Phe Leu Glu Pro Met Gly Ile Thr Ala
225 230 235 240
Ala His Arg Asp Gly Ser Thr Ile Ala Val Asp Val Gln Leu Arg Val
245 250 255
Val Glu Ser Glu Thr Phe Phe Arg Gln Asn His Ser Glu Asp Met Glu
260 265 270
Ser His Asp Glu Ser Ser Asp Tyr Gln Glu Asp Ala Ile Ala Ile Lys
275 280 285
Glu Leu Val Tyr Ala Leu Trp Val Thr Tyr Ser Arg Lys Ile His Ser
290 295 300
Ile Gly Pro Ser Ala Thr Val Phe Thr Thr Gly Leu Glu Gly Ser Val
305 310 315 320
Gln

<210> 23864
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23864
Thr Phe Gln Met Arg Phe His Ala Arg Ser Phe Gln Asp Tyr His Phe
1 5 10 15
Ile Ala Leu His Arg Val Tyr Arg Gly Gln Ser Pro Lys Asp Leu Asp
20 25 30
Glu Phe Gln Arg Ile Ser Gly Val Asn Gln Ile Leu Ser Phe Gly Asp
35 40 45
Trp Asp Phe Leu Ile Met Pro Glu Ile Cys Gln Ile Phe Arg Asn Ser
50 55 60
Val Lys Pro Thr Asn Arg Leu Thr Met Glu Thr Lys Ile Ala Ser Phe
65 70 75 80
Ile Lys

<210> 23865
<211> 224
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (206)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23865
Lys Thr Thr Cys Thr Arg Cys Thr Pro Leu Ser Gln Met Gln Ile Ala
1 5 10 15
Leu Ser Ser His Ser Asn Thr Phe Asp Met Ala Thr His Gln Ala Ile
20 25 30
Ile Leu Pro Gly Ile Asn Leu Pro Leu Thr Leu Ala Ser Val Pro Thr
35 40 45
Pro Ala Pro Gln Ser Gly Gln Val Leu Ile Lys Val Leu Ala Ser Pro
50 55 60
Ile Leu Ala Tyr Tyr Arg Thr Ile Leu Pro Gly Lys Arg Pro Tyr Pro
65 70 75 80
Leu Ser Leu Pro Leu Thr Pro Gly Val Ser Pro Ile Gly Arg Ile Glu
85 90 95
Ala Thr Gly Ser Asp Thr Thr Ala Leu Lys Pro Gly Gln Leu Val Tyr
100 105 110
Val Asp Leu Ala Val Arg Ala Arg Asp Asp Pro Leu Lys Glu His Gly
115 120 125
Thr Ile Val Leu Gln Gly Leu Phe Val Gly Ile Thr Pro Glu Ala Arg
130 135 140
Ile Leu Ser Glu Asn Asp Trp Arg His Gly Ser Trp Ala Glu Lys Gln
145 150 155 160
Leu Val Pro Leu Glu Asn Val His Val Leu Asp Glu Ser Leu Leu Cys
165 170 175
Ala Gln Met Gly Tyr Ser Pro Ala Arg Leu Thr Trp Ile Lys His Pro
180 185 190
Ala Cys Ser Val Arg Arg Ile Asn Val Gly Gly Pro Ala Xaa Gly Glu
195 200 205
Thr Val Ile Val Cys Phe Ala Thr Gly His Phe Gly Gly Ala Gly Asp
210 215 220

<210> 23866

<211> 83
<212> PRT
<213> A.fumigatus

<400> 23866
Leu Thr Thr His Pro Arg Leu Ser Pro Asn Thr Ser Pro Pro Ile Arg
1 5 10 15
Pro Ser Pro His Gln Gly Pro Arg Gln Pro Tyr Pro Arg Ile Leu Pro
20 25 30
His Asn Pro Pro Arg Gln Thr Ser Leu Ser Pro Leu Pro Pro Pro His
35 40 45
Pro Trp Cys Ile Pro Asn Arg Pro His Arg Gly His Arg Ile Arg His
50 55 60
Asn Ser Thr Gln Thr Gly Pro Thr Ser Val Arg Arg Pro Cys Arg Thr
65 70 75 80
Arg Thr Arg

<210> 23867
<211> 91
<212> PRT
<213> A.fumigatus

<400> 23867
Thr Arg Leu Thr Leu His Leu Ala Leu Leu Ser Asp Glu Asp Leu Lys
1 5 10 15
Glu Tyr Asp Leu Asp His Tyr Asp Ser Asp Glu Val Asp Glu Asp Gly
20 25 30
Glu Lys Ile Thr Met Phe Gly Asn Val Lys Ser Leu Ala Tyr His Gln
35 40 45
Pro Asn Glu Glu Asp Pro Tyr Leu Val Ile Pro Glu Glu Glu Glu Asp
50 55 60
Glu Glu Arg Glu Glu Leu Gln Ile Leu Pro Thr Asp Asn Leu Leu Leu
65 70 75 80
Ala Gly Lys Val Glu Asp Glu Val Ala His Leu
85 90

<210> 23868
<211> 94
<212> PRT
<213> A.fumigatus

<400> 23868
Gly Lys His Phe Thr Met Ser Ser Met Ile Thr Thr Thr Ala Trp Val
1 5 10 15
Arg Arg Gly Val Ala Ala Gln Phe Pro Thr Lys Tyr Glu Ile Asp Glu
20 25 30
Glu Glu Met Asn Arg Ile Ser Lys Leu Ala Arg Met Gln Leu Glu Glu
35 40 45
Ala Gln Gly Asp Leu Glu Ala Ala Arg Glu Gly Lys Asp Gln Asp Gly
50 55 60
Glu Thr Met Glu Glu Asp Gln Lys Glu Glu Ala Gln Asp Ala Met Glu
65 70 75 80
Asp Asp Ser Glu Glu Lys Lys Gly Lys Thr Ser Phe Asn Glu
85 90

<210> 23869
<211> 76
<212> PRT
<213> A.fumigatus

<400> 23869
Leu Ser Gly Thr Phe Lys Pro Phe Tyr Met Ser Pro Leu Glu Val Arg
1 5 10 15
Pro Arg Pro Asp Pro Asp Gly Val Trp Gly Pro Cys Ser Arg Asn Gly
20 25 30
Pro Gly Pro Arg Pro Gln Met Ser Gly Ser Asn Val Ser Ser Ala His
35 40 45
Glu Ile Ala Val Ser Pro Val Ile Arg Val Cys Ala Asn Lys Glu Ile
50 55 60
Gln Ala Ile Gln Gly Thr Glu Gly Trp Arg Gln Ala
65 70 75

<210> 23870
<211> 303
<212> PRT
<213> A.fumigatus

<400> 23870
Glu Ile Arg Ala Lys Asn Tyr Ala Ser Trp Ile Pro Gly Ala Lys Pro
1 5 10 15
Tyr Val Asp Gln Ala Phe Asp Asp Leu Glu Glu Ile Lys Arg Lys His
20 25 30
Gly Gln Glu Phe Asn Glu Ile Val Ser Asn Ala Tyr Lys Asp Leu Arg
35 40 45
Glu Ala Thr Lys Lys Gly Ser Leu Asp Val Asn Thr Ala Val Lys Ile
50 55 60
Arg Asp Ile Leu Gln Glu His Phe Lys Arg Leu Tyr Glu Leu Ala Gly
65 70 75 80
Glu Ser Ala Ser Asp Ile Leu Asp Asn His Pro Glu Ile Arg Glu Lys
85 90 95
Val Gly Gly Ser Leu Asp Gln Leu Lys Glu Met Gly Asn Ala Tyr Gly
100 105 110
Pro Gln Ala Lys Glu Glu Val Asp Arg Thr Trp Gln Gln Val Lys Asp
115 120 125
Ile Val Thr Ser Gly Val Asn Pro Glu Thr Ile Gln Lys Ile Gln Lys
130 135 140
Leu Ala Gln Glu Lys Arg Glu Lys Leu Gln Lys Phe Gly Asp Glu Ala
145 150 155 160
Trp Gln Lys Gly Met Glu Glu Ile Lys Pro Tyr Leu Asp Arg Asn Pro
165 170 175
Lys Val Lys Glu Leu Val Glu Arg Asn Ser Asp Ala Leu Arg Lys Gly
180 185 190
Asn Tyr Gly Glu Leu Trp Asp Leu Ile Lys Glu Ser Ala Ser Ser Gly
195 200 205
Asn Leu Gly Asn Leu Glu Gly Tyr Ile Asn Lys Thr Val Asp Gln Ala
210 215 220
Lys Lys Ser Gly Phe Asn Leu Asp Ser Leu Ala Asp Lys Phe Pro Gly
225 230 235 240
Gly Ser Asp Ile Leu Ser Gln Leu Gln Ser Leu Gln Asp Ile Ala Gln
245 250 255
Lys Lys Gly Pro Glu Ala Glu Lys Ile Leu Lys Asp Thr Leu Asn Asp

```
            260                 265                 270
Ile Gln Gly Ser Tyr Arg Lys Glu Pro Asn Arg Pro Arg Pro Leu Leu
        275                 280                 285
Ser Leu Leu Pro Gln Gly Val Glu Thr Ala Pro Val Arg Lys Lys
    290                 295                 300
```

<210> 23871
<211> 201
<212> PRT
<213> A.fumigatus

<400> 23871

```
Gly Ser Asn Phe Lys Pro Thr His Glu Thr Pro Gln Asn Ile Tyr Ile
1               5                   10                  15
Tyr Ile Leu Asn Thr Asp Arg Cys Leu Lys Met Ser Ala Asn Leu Ser
            20                  25                  30
Pro Lys His His His Ile Val Phe Leu Gln Ala Asp Tyr Cys Pro Ile
        35                  40                  45
Pro Asn Phe Arg Phe Pro Pro Gly His Thr Phe Thr Thr Ala Val Tyr
    50                  55                  60
Gln Gln Thr Ser Leu Ser Glu Leu His Ser Arg Ile His Asp Ala Ser
65                  70                  75                  80
Ile Val Val Phe Ser Tyr Ile Pro Phe Asp Ala His Thr Leu Ser Pro
                85                  90                  95
Glu Val Thr Pro His Leu Lys Leu Ile Ala Val Ala Ala Val Gly Thr
            100                 105                 110
Asp Cys Ile Asp Leu Glu Ala Cys Arg Lys Arg Gly Ile Ile Val Ser
        115                 120                 125
Arg Ser Val Gly Ala Asn Val Asp Ser Val Ser Glu His Ala Ile Gly
    130                 135                 140
Leu Tyr Phe Ala Ser Arg Arg Arg Ile Leu Asp Met His Met Leu Thr
145                 150                 155                 160
Arg Ala Gly Glu Trp Ala His Lys Lys Gly Thr Ile Met Tyr Gln Leu
                165                 170                 175
Leu Asp Lys His Gly Gln Pro Pro Leu Ser Cys Gln Asp Glu Val Val
            180                 185                 190
Gly Ile Ile Gly Tyr Gly Val Cys Trp
        195                 200
```

<210> 23872
<211> 201
<212> PRT
<213> A.fumigatus

<400> 23872

```
Leu Val Leu Leu Asp Met Gly Phe Val Gly Glu Ser Val Gln Ala Pro
1               5                   10                  15
Ile Trp Ile Pro Ser Ile Val Ala Leu Glu Ala Asp Lys Thr Asn Val
            20                  25                  30
Gly Gln Arg Ile Ala Gln Leu Ala Arg Asn Leu Gly Met Lys Val Leu
        35                  40                  45
Ile Ser Ala Arg Lys Asp Pro Ala Thr Ser Ser Ser Leu Ser Thr Val
    50                  55                  60
Asp Asn Ile Glu Arg Ala Pro Phe Asp Ala Val Ile Arg Gln Ser Thr
65                  70                  75                  80
Val Ile Phe Val Ala Val Pro Leu Ser Pro Ser Thr Arg Asn Leu Ile
```

```
                85                  90                  95
Ser Asn Pro Glu Leu Lys Asn Met Ser Pro His Thr Val Ile Val Asn
            100                 105                 110
Val Ser Arg Gly Gly Ile Val Asp Glu Asp Ala Leu Leu Glu Ala Leu
        115                 120                 125
Lys Lys Gly Thr Ile Ala Gly Ala Ala Thr Asp Val Phe Arg Gln Glu
    130                 135                 140
Pro Ala Gly Leu Asp Asn Ser Pro Leu Leu Ser Asp Glu Ala Lys Asn
145                 150                 155                 160
Leu Asn Leu Ile Val Thr Pro His Leu Ala Trp Leu Ser Lys Lys Thr
                165                 170                 175
Leu Ala Asn Tyr Ser Gln Met Val Gln Gln Ala Ile Glu Gly Trp Ser
            180                 185                 190
Ala Gly Gln Pro Cys Asn Val Val Thr
        195                 200
```

<210> 23873
<211> 393
<212> PRT
<213> A.fumigatus

<400> 23873

```
Pro Ser Ser Ser Asp Leu Leu Lys Arg His Ser Thr Ile His Ala Lys
1               5                   10                  15
Asn Ala Gly Arg Gln Tyr Leu Ser Asp Ala Pro Leu Pro Asp Pro Ala
            20                  25                  30
Gly Pro Ala His Leu Gly Asn Val Asn Gln Gln Leu Gln Gln Pro His
        35                  40                  45
Pro Arg Ala Glu Asp Ile Tyr Glu Ser His Met His Ile Val Leu Arg
    50                  55                  60
Ser Ser Asp Ser Arg His Ala His Ser Phe Asp Ser Arg Tyr Pro Glu
65                  70                  75                  80
Thr Phe Ser Ala Ile His Asp Thr Thr Gln Asp Val Glu Val Ser Arg
                85                  90                  95
Gly Leu Ile Gly Gly Pro Asp Gln Val Gln Asp Tyr Arg Ala Ser Leu
            100                 105                 110
Asp Pro Asn Ala Tyr Ser Ser Ser Lys Ser Ile Ser Gln Ser Ser Pro
        115                 120                 125
Asn Ser Asp Ser Pro Trp Pro Tyr Ala Thr Tyr Gly Met Tyr Gly Glu
    130                 135                 140
Gly Cys Leu Asp Thr Asp Leu Ala Trp Ile Leu Asp Ile Gly Ser Val
145                 150                 155                 160
Asp Tyr Pro Ser Pro Gln Lys Asp His His Leu Gly Leu Asp Ser Val
                165                 170                 175
Gln Ile Gln Glu Tyr Pro Ser Arg His Ser Glu Arg Cys Leu Pro Gly
            180                 185                 190
Val Val Ser Thr Val Gly Asp Thr Ala Ser Arg His Arg Asn Gly Gln
        195                 200                 205
Ala Cys Asp Tyr Pro Ala Asp Asp Thr Gln Asn Asp Trp Pro Asp Glu
    210                 215                 220
Asp Pro Val Pro Gly Ala Pro Pro Ser Ser Glu Ile Pro Pro Thr Asp
225                 230                 235                 240
Ile Pro Ser Gln Glu Ser Trp Val Glu Pro Asp Glu Val Arg Leu Phe
                245                 250                 255
Gln Asp Arg Leu Lys Asn Val Asn Trp Gln Phe Leu Arg Ile Thr Pro
            260                 265                 270
```

```
Asp Val Arg Ala Arg Met Leu Ala Thr Leu Ala Asp Ser Ala Ser Ile
        275                 280                 285
Glu His Gly His Leu Pro Pro Asp Glu Ser Lys Phe Pro Val Pro Glu
    290                 295                 300
Val Leu Glu Tyr Phe Leu Ser Phe Phe Phe Glu Phe Val His Pro Arg
305                 310                 315                 320
Phe Pro Val Leu His Lys Pro Thr Phe Ser Thr Ala Thr Ala Pro Pro
                325                 330                 335
Tyr Leu Leu Leu Ala Ile Met Leu Leu Gly Ser Ser His Ser Arg Ser
            340                 345                 350
Asn Arg Gly Lys Phe Val Ala Val Tyr Leu His Leu Ala Thr Thr Val
        355                 360                 365
Phe Met Arg Leu His Ala Leu Lys Pro Ser Phe Val Arg Val Phe Thr
    370                 375                 380
Met Gly Leu Asp Arg Ala Ala Leu Met
385                 390
```

<210> 23874
<211> 379
<212> PRT
<213> A.fumigatus

<400> 23874

```
Ile Leu Val Leu Asn Gln Ser Val Thr Ile Val Ser Ser Arg Ile Gln
1               5                   10                  15
Ile Ser Glu Met Ser Gln Glu His Arg Phe Val Glu Asp Gly Arg Arg
            20                  25                  30
Thr Gln Pro His Thr Ala Gly Leu Tyr Asp Arg Ala Glu Ile Glu Gln
        35                  40                  45
Phe Val Val Ser Ala Pro Ser Glu Arg Ser Pro Lys Ser Ser Asn His
    50                  55                  60
Ser Pro Leu Ser Ser Val Thr Gln Pro Arg Thr Leu Gln Ser Arg Pro
65                  70                  75                  80
Asp Met Met Ser Leu Thr Ser Ile Leu Gly Gly Ser Met Asp Gly Ile
                85                  90                  95
His Gln Cys Ser Thr Gln Arg Ser Ser Leu Ser Arg Gly Ser Phe Leu
            100                 105                 110
His Ser Cys Asp Arg Gln Gln Cys Pro Glu Asn Asn Lys Gly Pro Leu
        115                 120                 125
Gly Ile Glu Lys Glu Ala Glu His Lys Glu Asn Asn Arg Thr Tyr His
    130                 135                 140
Glu Phe His Arg Gly Lys Tyr Met Leu Pro Asn Asp Glu Glu Glu Gln
145                 150                 155                 160
Asp Arg Leu Asp Phe Leu His His Ala Leu Leu Gln Val Thr Gly Arg
                165                 170                 175
Leu Thr His Val Pro His Pro Thr Asp Ala Arg Val Leu Asp Leu Gly
            180                 185                 190
Cys Gly Thr Gly Ile Trp Ala Ile Asp Phe Ala Glu Ala Phe Pro Asp
        195                 200                 205
Ser Phe Val Val Gly Val Asp Leu Ser Ser Ile Gln Pro Ser Gly His
    210                 215                 220
Pro Pro Asn Cys His Phe Tyr Ala Pro Phe Asp Phe Glu Phe Pro Trp
225                 230                 235                 240
Ala Lys Leu Gly Glu Glu Ser Trp Asp Val Ile Arg Leu Gln Met Cys
                245                 250                 255
Gly Gly Ser Val Val Asn Trp Pro Ser Leu Tyr Arg Arg Val Ser Ala
```

```
            260                 265                 270
His Leu Arg Pro Asp Ala Trp Phe Glu Gln Val Asp Ile Asp Phe Gln
        275                 280                 285
Pro Arg Cys Glu Gly Arg Ala Leu Asp Gly Ser Ala Leu Tyr Asn Trp
    290                 295                 300
Cys His Asn Leu Arg Gln Ala Thr Ser Asp Ala Ala Arg Pro Ile Ser
305                 310                 315                 320
His Gln Phe His Ala Ile Ile Asp His Leu Gln Asn Ala Gly Phe Thr
                325                 330                 335
Asp Ile Lys His Lys Gln Phe Val Leu Pro Leu Asn Arg Trp His Ser
            340                 345                 350
Asp Leu Trp Met Arg His Ile Gly Gly Trp Tyr Gly Arg Ala Leu Phe
        355                 360                 365
Asp Ser Ile Glu Pro Leu Ser Leu Ala Pro Phe
    370                 375
```

<210> 23875
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23875

```
Arg Ala Arg Tyr Leu Pro Ala Pro Val Arg Glu Asp Glu Val Asn Ser
1               5                   10                  15
Arg Asp Phe Val Glu Leu Leu Ser Phe Ala Met Lys Val Pro Cys Phe
            20                  25                  30
Leu Leu Phe Leu Ala Ala Thr Val Ser Ala Gln Arg Val Ala Val Gly
        35                  40                  45
Leu Pro Ala Glu Gly Glu Lys Leu Ala Pro Gly Ser Ser Thr Val Val
    50                  55                  60
Gln Ile Gln Arg Pro Val Cys Phe
65                  70
```

<210> 23876
<211> 203
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23876

```
Leu Ala Thr Leu Val Xaa Asn Glu Leu His Ser Phe Arg Lys Asn Gln
1               5                   10                  15
Gln Met His Met Met Gln Gln Met Gln Arg Glu His Ser Asp Met Asp
            20                  25                  30
Met Asn Gly His Arg Pro Gln Ser Pro Ser Ser Ala Glu Asn Ala Pro
        35                  40                  45
Ser Pro Ser Lys Arg Pro Arg Leu Glu Asn Gly Pro Met Asn Gly Gln
    50                  55                  60
Gln Leu Ala Pro Asn Gly Arg Gly Gln Gly Gln Ala Met Pro Gly Gln
65                  70                  75                  80
Pro Asn Ser Gln Ala Leu Leu Met Gln Asn Gly Leu Asn Pro Arg Ala
                85                  90                  95
```

```
Met Asn Pro Ala Gln Phe Ala Gly Phe Gln Gln Gln Gly Pro Ala Ala
            100                 105                 110
Gln Gln Lys Ser Ile Gln Val Tyr Ala Gln Asn Leu Ala Leu His His
        115                 120                 125
Ser Arg Ser Ala Leu Asn Asn Gln Gly Ile Pro Asn Gly Leu Met Asn
    130                 135                 140
Pro Gly Val Met Pro Asn Gln Thr Asp Leu Val Pro Met Pro Asp Gly
145                 150                 155                 160
Gln Gly Met Tyr Pro Met Asn Gly Asp Tyr Tyr Gly Thr Asn Gly Gln
                165                 170                 175
Met Ala Gln Val Arg Ala Gly Met Gln Thr Pro Gly Gly Gln His Gly
            180                 185                 190
Asn His Ala Leu Gln Asp Tyr Glu Val Gln Leu
        195                 200
```

<210> 23877
<211> 88
<212> PRT
<213> A.fumigatus

<400> 23877

```
His Thr Leu Ile Thr Tyr Pro Asn Asn Ile Pro Asp Ser Gly Tyr Ala
1               5                   10                  15
Ser Arg Ser Ile Ser Leu Pro Asp Ile Ser Asp Thr Asp Gln Arg Leu
            20                  25                  30
Cys Cys Ala Pro Tyr Leu Leu Leu Ser Ser Pro Gln Ser Met Ile Leu
        35                  40                  45
Pro Leu Ser Tyr Pro Ser Pro Trp Arg Asp Ile Ser Pro Ile Glu Val
    50                  55                  60
Arg Gly Leu Ala Phe Ser Ser Pro Pro Leu Arg Ala Glu Arg Asp Arg
65                  70                  75                  80
Ala Phe Ser Ile Ser Pro Tyr Glu
                85
```

<210> 23878
<211> 281
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (257)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23878

```
Gly Gly Lys Lys Tyr Leu Ala Lys Ile Asp Lys Ser Ile Met Ala Gly
1               5                   10                  15
Phe Thr Val Gly Asp Tyr Leu Ala Glu Arg Leu Ser Gln Ile Gly Ile
            20                  25                  30
Glu His Pro Phe Val Val Pro Gly Asp Tyr Asn Leu Ile Leu Leu Asp
        35                  40                  45
Lys Leu Gln Ala His Pro Lys Leu Ser Glu Ile Gly Cys Ala Asn Glu
    50                  55                  60
Leu Asn Cys Ser Leu Ala Ala Glu Gly Tyr Ala Arg Ala Asn Gly Val
65                  70                  75                  80
Ala Ala Cys Val Val Thr Tyr Asn Val Gly Ala Phe Ser Ala Phe Asn
```

```
                85                  90                  95
Gly Thr Gly Ser Ala Tyr Ala Glu Asn Leu Pro Leu Ile Leu Ile Ser
            100                 105                 110
Gly Ser Pro Asn Thr Asn Asp Ala Ala Gln Phe His Gln Leu His His
        115                 120                 125
Thr Leu Gly Thr Ser Asp Phe Thr Tyr Gln Leu Gln Met Ala Glu Lys
    130                 135                 140
Ile Thr Cys Cys Ala Val Ala Val Gly Arg Ala Gln Asp Ala Pro Arg
145                 150                 155                 160
Leu Ile Asp Arg Ala Ile Arg Gly Ala Leu Ile Ser Lys Lys Pro Ala
                165                 170                 175
Tyr Ile Glu Ile Pro Thr Asn Leu Ser Gly Ala Pro Cys Thr Arg Pro
            180                 185                 190
Gly Pro Ile Ser Ala Val Val Asp Pro Ile Gln Ser Asp Arg Ala Ser
        195                 200                 205
Leu Leu Ala Ala Ile Asp Cys Ala Ala Asp Tyr Leu Ser Gly Lys Glu
    210                 215                 220
Lys Pro Ile Ile Leu Ala Gly Pro Lys Val Arg Lys Ala Gly Ala Glu
225                 230                 235                 240
Thr Glu Leu Leu Cys Leu Ala Glu Ala Met Gly Cys Ala Val Val Val
                245                 250                 255
Xaa Pro Ala Ala Lys Gly Ser Phe Pro Glu Asp His Phe Gln Tyr Ala
            260                 265                 270
Gly Val Phe Trp Gly Gln Val Ser Thr
        275                 280
```

<210> 23879
<211> 194
<212> PRT
<213> A.fumigatus

<400> 23879

```
Ser Arg Gly Ser Thr Gly Gln Gly Arg Arg Pro Thr Tyr Ala Pro Gln
1               5                   10                  15
Gly Pro Arg Ala Ala Arg Ile Glu His Met Glu Arg Arg Ser Ser Val
            20                  25                  30
Gly Asp Pro Arg Ala Thr Arg Gln Pro Gly Gln Phe Phe Ala Ile Gln
        35                  40                  45
Ser Leu Pro Glu Ser Thr Thr Asp Pro Pro Gln Thr Ala Val Phe Lys
    50                  55                  60
Asn Gln Ile Asp Trp Ile Pro Leu Ser Thr Gly Ser Ile Arg Pro Thr
65                  70                  75                  80
Gln Gly Arg Thr Leu Ala Ile Ala Gln Val Cys Gly Gly Ser Gln Ser
                85                  90                  95
Phe Asn Ala Val Asn Ser Leu Arg Ile Leu Gly Arg Trp Met Arg Met
            100                 105                 110
Phe Val Ile Pro Asn Gln Ser Ser Ile Pro Lys Ala Tyr Thr His Phe
        115                 120                 125
Pro Asp Ala Gly Gln Pro Gly Asp Tyr His Leu Met Pro Ser Gly Asn
    130                 135                 140
Arg Asp Arg Leu Val Asp Cys Met Glu Glu Phe Val Lys Tyr Thr Ile
145                 150                 155                 160
Leu Met Arg Pro His Leu Asp Leu Phe Ala Asp Arg Tyr Ser Glu Arg
                165                 170                 175
Glu Glu Arg Arg Leu Lys Gln Ala Ala Leu Ala Ala Lys Ala Gly Pro
            180                 185                 190
```

Asp Val

<210> 23880
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23880
Ile Ile Glu Gly Glu Glu Trp Lys Thr Ala Phe Arg Thr Lys Phe Arg
1 5 10 15
His Phe Lys Tyr Leu Val Met Leu Phe Arg Leu Thr Asn Ala Pro Ala
20 25 30
Ser Phe Glu Arg Phe Ile Glu Glu Val Leu His Lys Val Leu His Tyr
35 40 45
Phe Ile Val Val Tyr Leu Asp Asp Ile Leu Ile Phe Ser Lys Asn Lys
50 55 60
Asn Glu His Val Glu His Ile Lys Glu Val Leu
65 70 75

<210> 23881
<211> 80
<212> PRT
<213> A.fumigatus

<400> 23881
Phe Ile Gly Leu Val Asn Tyr Tyr Gln Gln Phe Ile Lys Gly Tyr Val
1 5 10 15
Lys Thr Met Thr Leu Leu Phe Lys Leu Leu Lys Lys Gly Lys Glu Phe
20 25 30
Lys Trp Thr Lys Glu Cys Lys Thr Ala Phe Thr Arg Ile Lys Glu Lys
35 40 45
Ile Ile Thr Ala Leu Ile Leu Val Gln His Asp Pro Asp Lys Glu Thr
50 55 60
Thr Ile Lys Thr Asp Ala Ser Asn Tyr Thr Ile Gly Met Arg Ile Thr
65 70 75 80

<210> 23882
<211> 108
<212> PRT
<213> A.fumigatus

<400> 23882
Ala Leu Leu Val Cys Val Thr Arg Ser Pro Ile Thr Ser Thr Ala Ile
1 5 10 15
Ser Phe Ser Arg Asp Lys Gly Val Val Ala Val Met Ser Ser Gln Ala
20 25 30
Ser Ser Ser Ser Arg Ser Thr Ser Ser Ile Pro Pro Ser Ser Pro Thr
35 40 45
Gly Ser Ser Ser Ser Ser Ala Leu Ala Thr Leu Thr Leu Arg Pro Ala
50 55 60
Ile Ile Thr Ser Trp Pro Thr Arg Ser Leu Ala Ala Ser Pro Arg Asp
65 70 75 80
Thr Ser Arg Ser Val Ser Ser Cys Ser Met Gln Ala Lys Arg Pro Leu
85 90 95
Thr Thr Pro Ser Arg Lys Gly Ala Lys Cys Ser Pro

100 105

<210> 23883
<211> 255
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (208),(211)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23883
Leu Leu Gln Glu Phe Ala Thr Val Lys Asp Ser Glu Glu Glu Leu Asp
1 5 10 15
Leu Arg Ala Ser Val Thr Asp Ala Met Gly Glu Met Ser Ala Ala Ala
20 25 30
Gly Ala Glu Arg Tyr Gln Pro Tyr Val Glu Pro Leu Met Arg Ala Thr
35 40 45
Glu Glu Ala Leu His Leu Asp His Ser Arg Leu Lys Glu Ser Thr Tyr
50 55 60
Ile Phe Trp Gly Ala Met Ser Lys Val Tyr Gly Glu His Phe Ala Pro
65 70 75 80
Phe Leu Asp Gly Val Val Lys Gly Leu Phe Ala Cys Ile Glu Gln Asp
85 90 95
Glu Thr Asp Leu Asp Val Ser Leu Gly Glu Ala Ala Lys Asp Leu Val
100 105 110
Gly Gln Glu Val Ile Ile Ala Gly Arg Lys Val Lys Val Ala Ser Ala
115 120 125
Asp Asp Asp Asp Glu Pro Val Gly Glu Asp Gly Gly Ile Glu Asp Val
130 135 140
Asp Leu Asp Asp Glu Asp Ala Trp Asp Asp Ile Thr Ala Thr Thr Pro
145 150 155 160
Leu Ser Leu Glu Asn Glu Ile Ala Val Glu Val Ile Gly Asp Leu Val
165 170 175
Thr His Thr Lys Ser Ala Tyr Leu Pro Tyr Phe Glu Lys Thr Ile Glu
180 185 190
Gln Val Leu Pro Leu Ala Glu His Pro Tyr Gln Gly Val Arg Arg Xaa
195 200 205
Thr Ile Xaa Thr Leu His Arg Ser Tyr Ala Met Leu Phe Ala Ile Ala
210 215 220
Glu Asn Thr Gly Gln Met Ala Lys Trp Lys Pro Gly Leu Pro Leu Glu
225 230 235 240
Val Gln Pro Ala Gln Glu Gly Pro Glu Val Trp Val Lys Ser Arg
245 250 255

<210> 23884
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23884
Tyr His Asp Leu Arg Gln Arg Gln Thr Leu Gln Met Tyr Arg Val Pro
1 5 10 15
Gln Lys Ile Thr Glu Ala Ser Ser Cys Ser Thr Ser Gln Glu Arg Cys
20 25 30

```
Lys Gln Tyr Ile Ile Leu Ala Asp Pro Thr Arg Phe Lys Pro Val Phe
        35                  40                  45
Gln Phe Tyr Ser Pro Leu Pro Ser Arg Leu Gln Thr Thr Pro Pro Asn
    50                  55                  60
Lys Gln Phe Asp
65
```

<210> 23885
<211> 139
<212> PRT
<213> A.fumigatus

<400> 23885

```
Lys Lys Ser Ile Gly Gly Trp Ala Leu Pro Phe Trp Asp Leu Lys Ala
1               5                   10                  15
Phe Ile Thr Asp Gln Ile Pro Gly Leu Ala Gly Pro Glu Ser Val His
            20                  25                  30
Pro Thr Ser Ala Ala Leu Ala Phe Gln Leu Ala Asn Leu Tyr Gly Leu
        35                  40                  45
Leu Ser Ile Leu Gly Ile Gly Val Cys Tyr Ser Thr Thr Glu Pro Arg
    50                  55                  60
Val Leu Arg Asn Tyr Leu Tyr Ala Leu Ala Ile Ala Asp Val Gly His
65                  70                  75                  80
Ile Tyr Val Thr Tyr Arg Cys Met Gly His Asp Arg Phe Val Asp Val
                85                  90                  95
Ile Asn Trp Asn Val Leu Thr Trp Gly Asn Ile Gly Ile Thr Gly Phe
            100                 105                 110
Leu Met Ile Asn Arg Ile Ala Tyr Leu Ala Gly Leu Phe Gly Asp Ala
        115                 120                 125
Lys Gly Ala Ala Asn Lys Ile Glu Lys Arg Val
    130                 135
```

<210> 23886
<211> 147
<212> PRT
<213> A.fumigatus

<400> 23886

```
Glu His Arg Lys Gln Ala Met Ser Thr Leu Pro Pro Asn Pro Leu Ala
1               5                   10                  15
Cys Phe Trp Gln Asn Asn Pro His Lys Leu His Asp His Arg Ser Thr
            20                  25                  30
Glu Asp Leu Pro Thr His Ser Asp Val Ala Ile Ile Gly Ala Gly Tyr
        35                  40                  45
Ala Gly Val Ser Thr Ala Trp His Leu Leu His Lys His Pro Asn Ile
    50                  55                  60
Asn Ser Ile Thr Ile Leu Glu Ala Arg Gly Ala Cys Ser Gly Ala Thr
65                  70                  75                  80
Gly Arg Asn Gly Gly His Leu Arg Pro Asp Leu Tyr Gly His Ile Pro
                85                  90                  95
Thr Tyr Ile Asp Arg Ala Gly Pro Glu Ala Ala Ala Glu Ile Ala Glu
            100                 105                 110
Phe Glu Ile Ala His Ile Gln Ala Ile Lys Lys Leu Val Glu Ser Glu
        115                 120                 125
Gln Ile Asp Cys Asp Phe Arg Leu Val Phe Thr Thr Glu Gly Ser Lys
    130                 135                 140
```

Asp Pro Arg
145

<210> 23887
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23887
Arg Gln Glu Leu Gln Met His Arg Leu His Trp Lys Asn Met Ala Ser
1 5 10 15
Tyr Leu Pro Leu Pro Asn Leu Lys Ala Lys Pro Ser Pro Gly Glu Leu
20 25 30
Glu Gln Gly Asp Lys Thr Leu Val Lys Tyr Arg Gln Leu Ala Trp Pro
35 40 45
Pro Asp His Ile Asn Pro Lys Val Leu Ile Leu Leu Pro Asn
50 55 60

<210> 23888
<211> 188
<212> PRT
<213> A.fumigatus

<400> 23888
Asp Asn Gln Cys Ala Gly Ser Ser Thr Pro Val Val Glu Asn Ala Ala
1 5 10 15
Glu Val Gln Ile Asp Thr Leu Thr Gly Asp Trp Thr Pro Leu Arg Ala
20 25 30
Asp Ile Lys Met Asp Val Gly Arg Thr Ile Asn Pro Ser Ile Asp Tyr
35 40 45
Gly Gln Ile Glu Gly Ala Phe Ile Gln Gly Gln Gly Leu Phe Thr Thr
50 55 60
Glu Glu Ser Leu Trp His Arg Ala Ser Gly Gln Ile Phe Thr Lys Gly
65 70 75 80
Pro Gly Asn Tyr Lys Ile Pro Gly Phe Arg Asp Ile Pro Gln Val Phe
85 90 95
Asn Val Ser Leu Leu Lys Asp Val Glu Trp Glu Asn Leu Arg Thr Ile
100 105 110
Gln Arg Ser Arg Gly Val Gly Glu Pro Pro Leu Phe Met Gly Ser Ala
115 120 125
Val Phe Phe Ala Ile Arg Asp Ala Leu Lys Ala Ala Arg Lys Gln Trp
130 135 140
Asn Val Thr Glu Val Leu Ser Leu Gln Ser Pro Ala Thr Pro Glu Arg
145 150 155 160
Ile Arg Val Ser Cys Ala Asp Pro Ile Ile Glu Arg Val Arg Val Thr
165 170 175
Pro Arg Glu Gly Glu Lys Ser Phe Phe Val Ala Ile
180 185

<210> 23889
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (5),(30),(53)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23889
Trp Tyr Leu Asp Xaa Pro Ser Gly Val Arg Gln Val Val Ile Gly Pro
1 5 10 15
Gly Val Ser Phe Pro Ser Arg Gly Phe Arg Phe Ser Thr Xaa Asn Lys
20 25 30
Ile Gly Ala Arg Thr Ile Pro Ile Asn Ala His Glu Phe Pro Tyr Glu
35 40 45
Asp Tyr Asp Pro Xaa Leu Tyr Gly Leu Cys Ala Glu Thr Ser Ser Asn
50 55 60

<210> 23890
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23890
Met Leu Leu Gln Ala Pro Ala Pro Arg Tyr Glu Ala Ser Thr Ser Thr
1 5 10 15
Val Val Ala Ser Val Pro Phe Xaa Val Ser Ser Thr His His Glu Asp
20 25 30
Glu Lys Leu Gly Phe Ala Gly Glu Arg Gln Tyr Gly Ser Ala Leu Lys
35 40 45
Val Asp Gly Ala Ala Asp Leu Arg Gly Ser Ser Tyr Val Glu
50 55 60

<210> 23891
<211> 100
<212> PRT
<213> A.fumigatus

<400> 23891
Leu Ala Leu Met Leu Pro Arg Leu Glu Phe Pro Ala Ile Leu Thr Ala
1 5 10 15
Tyr Ile Leu Thr Asn Met Leu Leu Gly Tyr Glu Lys Leu Ser Ser Lys
20 25 30
Val Phe Phe Leu Asp Ser Phe Met Ile Asp Tyr Ser Lys Gly Thr Asp
35 40 45
Ala Cys Gln Asn Lys Val Leu Arg Asp Phe Ile Cys Gln Cys Phe Glu
50 55 60
Arg Asn Gln Lys Asp Ile Cys Gly Pro Asn Pro Glu Thr Lys Gly Ile
65 70 75 80
Gln Asn Gln Leu Pro Asn Ala His Gly Trp Glu Phe Lys Val Leu Thr
85 90 95
Ser Leu Gly Pro
100

<210> 23892
<211> 135

<212> PRT
<213> A.fumigatus

<400> 23892
Val His Ile Ser Gln Arg Arg Arg Ala Pro Val Tyr Val Cys Leu Thr
1 5 10 15
Cys Tyr Asp His Gln Met Arg Leu Leu Ser Met Ile Val Lys Ser Val
20 25 30
Phe Gly Gly Ser Arg Pro Lys Arg Ser Glu Tyr Phe Glu Phe Pro Ala
35 40 45
Met Arg Val Trp Glu Leu Ile Leu Asn Thr Leu Arg Phe Arg Ile Arg
50 55 60
Ser Ala Asn Ile Leu Leu Ile Thr Phe Lys Ala Leu Ala Asn Glu Ile
65 70 75 80
Ala Lys Asn Leu Val Leu Ala Gly Ile Gly Thr Leu Thr Ile Val Asp
85 90 95
His Glu Thr Val Lys Glu Glu Asp Leu Gly Ala Gln Phe Phe Ile Ser
100 105 110
Glu Glu His Val Gly Gln Asn Val Cys Cys Gln Tyr Arg Trp Lys Phe
115 120 125
Gln Ala Arg Gln His Lys Ser
130 135

<210> 23893
<211> 119
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (42),(68)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23893
Leu Pro Leu Glu Trp Ala Ala Leu Thr Ala Lys Pro Asn Asn Asn Leu
1 5 10 15
Arg Gly Ala Asn Leu Pro Pro Thr His Ile Arg Val Ser Pro Ser Met
20 25 30
Leu Lys Ala Arg Asn Gly Arg Lys Gly Xaa Asp Ala Trp Thr Ser Tyr
35 40 45
Gln Gly Lys Val Tyr Asn Ile Thr Pro Tyr Leu Pro Phe His Pro Gly
50 55 60
Gly Lys Gly Xaa Leu Leu Arg Gly Ala Gly Lys Asp Ser Gly Lys Leu
65 70 75 80
Phe Met Glu Ile His Pro Trp Val Asn Trp Asp Ala Ile Leu Gly Glu
85 90 95
Cys Leu Val Gly Ile Leu Val Ser Glu Asn Glu Ala Lys Ala Asn Glu
100 105 110
Ser Ser Leu Asp Thr Met Asp
115

<210> 23894
<211> 66
<212> PRT
<213> A.fumigatus

<400> 23894
Trp Leu Thr Tyr Gly Phe Ile Leu Phe Ser Arg Trp Asp Glu Gly Leu
1 5 10 15
Leu Asp Met Cys Val Gly Glu Lys Arg Thr Leu Thr Ile Pro Pro Glu
20 25 30
Tyr Gly Tyr Gly Glu Arg Gly Ile Gly Pro Ile Pro Gly Gly Ala Thr
35 40 45
Leu Ile Phe Glu Thr Glu Leu Val Gln Ile Glu Gly Val Asn Asn Asp
50 55 60
Glu Leu
65

<210> 23895
<211> 90
<212> PRT
<213> A.fumigatus

<400> 23895
Ala Ser Leu Ser Leu Gly Leu Ala Gly Arg Ser Asn Gly His Ala Asn
1 5 10 15
Gln Arg Asp Val Ala Asp Lys Leu Thr Glu Val Ile Ser Ser Ala Ser
20 25 30
Gln Ser Phe Ser Glu Arg Phe Asn Lys Val Leu Pro Pro Gln Ser Pro
35 40 45
Phe Gln Thr Ala Glu Tyr Ser Glu Phe Ser Lys Ala Met Leu Ser Asn
50 55 60
Leu Val Gly Gly Ile Gly Phe Phe His Gly Asp Asp Ile Val Asp Arg
65 70 75 80
Ser Ala Ala Ser Arg Ser Leu Asn Glu Gln
85 90

<210> 23896
<211> 185
<212> PRT
<213> A.fumigatus

<400> 23896
Arg Ile Leu Pro Ala Pro Trp Trp Thr Thr Gly Phe Arg His Thr Cys
1 5 10 15
Glu Gln Asn Glu Gly Met Ala Gly Tyr Gly Trp Asp Glu Tyr Asp Ile
20 25 30
Arg Lys Gly Gly Arg Gln Thr Ile His Asp Thr Gly Asn Ser Leu Asp
35 40 45
Leu Thr Ile Asp Phe Ile Lys Val Pro Gly Gly Gln His Gly Gly Ser
50 55 60
Trp Ala Ala Arg Val Arg Gly Ile Pro Arg Glu Asp Gly Ser Pro Asp
65 70 75 80
Gln Pro Thr Ser Ile Val Phe Tyr Ala Thr Leu Glu Gly Leu Gly Asn
85 90 95
Leu Gly Val Ala Thr Glu Ser Gly Pro Ile Gly Tyr Gln Gly Asp Val
100 105 110
Lys Leu Met Gly Tyr Thr Thr Glu Leu Gly Asp Phe Ser Ile Asp Val
115 120 125
Thr Ala Gly Pro Glu Thr Asn Glu His Pro Glu His Gly His Pro Ser
130 135 140
Tyr Glu Asp Lys Pro Leu Asp Arg Thr Leu Val Ser Ser Ser Thr Ile

```
145                 150                 155                 160
Ala Pro Glu Asn Leu Trp Gln Val Lys Arg Arg Leu Ser Ile Pro Arg
                165                 170                 175
Asn Cys Ser Leu Ile Trp Asn Trp Arg
            180                 185
```

<210> 23897
<211> 124
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23897

```
Leu Arg Pro Phe Gln Cys Ala Asp Gly Leu Xaa Leu Trp Arg Arg Leu
1               5                   10                  15
Arg Leu Leu His Leu Thr Tyr Phe Leu Leu His Pro Ser Tyr Cys Ser
            20                  25                  30
Asn Val Pro Ala Ser Ala Cys Ala Tyr His Thr Asn Met Val His Leu
        35                  40                  45
Ala Thr Val Lys Arg Asp Ser Glu Asp Val Glu Pro Leu Val Lys Arg
    50                  55                  60
Val Asp Ser Ile Glu Leu Glu Thr Thr Asp Asp Asp Gly Phe Tyr Ser
65                  70                  75                  80
Thr Val Tyr Gly Thr Arg Phe Ala Ala Glu Gln Leu Pro Gln Asn Glu
                85                  90                  95
Met Pro Glu Lys Glu Met Pro Arg Glu Val Ala Tyr Arg Met Ile Lys
            100                 105                 110
Asp Glu Leu Ser Leu Asp Gly Asn Pro Met Leu Lys
        115                 120
```

<210> 23898
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23898

```
Phe Glu Gln Glu Glu Glu Ala Glu Lys Leu Met Thr Asp Ser Phe Ser
1               5                   10                  15
Lys Asn Phe Ile Asp Tyr Glu Glu Tyr Pro Gln Ser Ala Glu Ile Gln
            20                  25                  30
Asn Arg Cys Val Ser Met Ile Ala Arg Leu Phe Asn Ala Pro Ile Asn
        35                  40                  45
Ser Asp Asp Glu His Pro Val Gly Thr Ser Thr Ile Gly Ser Ser Glu
    50                  55                  60
Ala Ile Met Leu Gly Thr Leu Ala Met Lys Arg Arg Trp Gln Asn Lys
65                  70                  75                  80
Arg Lys Ala Glu Gly Lys Asp Thr Thr Arg Pro Asn Ile Ile Met Asn
                85                  90                  95
Ser Ala Val Gln Val Cys Trp Glu Lys Ala Ala Arg Tyr Ser Asp Val
            100                 105                 110
Gln Glu Leu Tyr Asp Ser Ala Asn Lys Leu Thr Asn Leu Glu Ile Ile
        115                 120                 125
```

Ala Leu Pro Lys Ser
130

<210> 23899
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23899
Lys Val Ile Ser Ser Ser Cys Met Thr Arg Ser Asn Arg Asn Glu Asp
1 5 10 15
Ile Phe Gln Pro Val Lys Ala Tyr Leu Ile Ser Ser Leu Ser Ile Arg
20 25 30
Thr Asn Phe Asn Pro Ala Ile Val Trp Glu Leu Tyr Ile Phe Ile Pro
35 40 45
Ala Leu Tyr Met Asp Leu Ser Phe Glu Asp Asn Ala Trp Arg Lys Arg
50 55 60
Leu Ala Gly Arg Ile Asp Thr Phe Asn
65 70

<210> 23900
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23900
Thr Thr Asn Glu Ile Gly Leu His Trp Leu Lys Asn Ile Phe Ile Pro
1 5 10 15
Ile Thr Ser Ser His Thr Thr Gly Arg Tyr His Leu Leu Ile Leu Asn
20 25 30
Ser His Gly Ser Tyr Leu Thr Pro Gln Phe Asn Gln Leu Cys Ser Glu
35 40 45
Asn Asn Val Ile Pro Ile Tyr Met Pro Ala His Ser Ser Tyr Lys Leu
50 55 60

<210> 23901
<211> 114
<212> PRT
<213> A.fumigatus

<400> 23901
Ile Asn Pro Leu Ser Ile Arg Gly Lys Met His Gly Leu His Asp Phe
1 5 10 15
Asp Thr Leu Gln Thr Ile His Ser Ala Ala Phe Arg His Tyr Asn Phe
20 25 30
Asn Met Ile Ser Phe Arg Gln Cys Leu Ala Ile Ala Ala Leu Pro Leu
35 40 45
Ala His Thr Ala Leu Ala Leu Asn Asp Ile Ser Ser Arg Ala Gln Ser
50 55 60
Ala Thr Asn Leu Cys Gly Asp Asn Asp Tyr Ile Ile Leu Glu Ser Ser
65 70 75 80
Pro Trp Ile Val Tyr Asn Met Leu Tyr Asn Ala Ala Gln Met Val Gly
85 90 95
Thr Gln Gly Thr Asn Cys Leu His Ser Arg Ser Ser Gln Asp Arg Thr
100 105 110
Leu Met

<210> 23902
<211> 130
<212> PRT
<213> A.fumigatus

<400> 23902
Lys Pro Trp Thr Leu Ala Ile Glu Gln Ser Leu Ala Gln Ser Ser Val
1 5 10 15
Arg Pro Leu Ile His Leu Leu Ala Glu Asp Ile Asn Arg Val Asn Met
20 25 30
Thr Ile Ser Tyr Asp Tyr Pro Ser Arg Val Pro Ala Thr Thr Ser Met
35 40 45
Ala Thr Leu Glu Asp Arg Phe Glu Val Ile Lys Glu Val Gly Asp Gly
50 55 60
Ser Phe Gly Ser Val Ala Val Ala Arg Val Arg Thr Ala Gly Ser Asn
65 70 75 80
Val Ala Arg Arg Gly Thr Met Val Arg Asn Pro Leu Ala Asp Glu Ile
85 90 95
Ser Pro Ser Gly His Gly Pro Thr Arg Ala Asp Ile Met Pro Gly Cys
100 105 110
Asn Gln Asp Tyr Glu Lys Asp Leu Arg Leu Phe Gly Pro Leu Leu Arg
115 120 125
Ala Ala
130

<210> 23903
<211> 109
<212> PRT
<213> A.fumigatus

<400> 23903
Gly Thr His Leu Arg Thr Arg Ser Ala Pro Arg Gly Met Asp Arg Pro
1 5 10 15
Val Leu Ile Leu Cys Gln Val Ala Ile Lys Thr Met Lys Lys Thr Phe
20 25 30
Asp Ser Leu Ala Pro Cys Leu Glu Leu Arg Glu Val Ile Phe Leu Arg
35 40 45
Thr Leu Pro Ala His Pro His Leu Val Pro Ala Leu Asp Ile Phe Leu
50 55 60
Asp Pro Leu Ser Arg Lys Leu His Phe Cys Leu Glu Tyr Met Asp Gly
65 70 75 80
Asn Leu Tyr His Leu Met Lys Phe Arg Asp His Lys Tyr Leu Glu Gly
85 90 95
Lys Pro Val Glu Lys Tyr Pro Ser Leu Leu Thr Pro Gln
100 105

<210> 23904
<211> 129
<212> PRT
<213> A.fumigatus

<400> 23904
Glu Leu Ile Ala Asp Pro Pro Thr Leu Val Val Lys Thr Gln Pro Pro
1 5 10 15

```
Thr Pro Phe Pro Pro Pro Arg Pro His Arg Val His Ser Pro Ser His
            20                  25                  30
Ala Ala Gln Pro Leu Glu Thr Asp Phe Gln Thr His Gly Thr Asp Pro
        35                  40                  45
Arg Ala Ser Arg Thr Ser Pro Leu Pro His Pro Glu Ala Ala Gln Thr
    50                  55                  60
Asp Ser Asn Ala Gln Lys Ala Pro Ser Pro Val Glu Pro Tyr Ala Ala
65                  70                  75                  80
Pro His Asp Thr Ala Gly Thr Pro Thr Pro Thr Pro Leu Ala His Tyr
                85                  90                  95
Pro Arg Gln Lys Asn His Pro Phe Ala His Pro Ala Ala Arg Ser Pro
            100                 105                 110
Pro Ala Gly Thr Pro Pro Thr Arg Pro Ala Pro Ser Pro Ser Ala Gly
        115                 120                 125
Pro
```

<210> 23905
<211> 307
<212> PRT
<213> A.fumigatus

```
<400> 23905
Ala Val Thr Ala Ile Thr Leu Asn Gln Gln Ser Leu His Ile Thr Ala
1               5                   10                  15
Pro Ser Ser Asp Ala Gln Phe Thr His His Val Ser Leu Leu Ser Ser
            20                  25                  30
Lys Ser Asp Thr Gln Arg Arg Asp Ser Leu Ala His Leu Thr Thr Ser
        35                  40                  45
Leu Val Ser Arg Pro Val Asp Ser Pro Leu Pro Gln Pro Val Ser Val
    50                  55                  60
Leu Leu Pro Thr Leu Leu Pro Leu Ile Leu Asp Ala Ser Ser Ser Val
65                  70                  75                  80
Arg Thr Gln Leu Leu Lys Leu Leu Arg Ala Leu Pro Ala Asn Asp Ile
                85                  90                  95
Gln Asp His Val Pro Gln Leu Leu Pro Tyr Ile Arg Ala Gly Met Thr
            100                 105                 110
His Leu Ala Ala Asp Ile Arg Val Ser Ala Val Glu Val Leu Ser Trp
        115                 120                 125
Leu Val Asp Val Ala Gly Ala Glu Val Val Ser Cys Ala Gly Gly Trp
    130                 135                 140
Ile Lys Thr Leu Asn Cys Phe Leu Ser Val Leu Gly Trp His Thr Glu
145                 150                 155                 160
Glu Ser Ser Lys Trp Ser Gly Asn Arg Ala Ser Phe Gly Lys Ser Gly
                165                 170                 175
Ala Lys Gly Gln Pro Met Val Lys Val Leu Ala Ala Leu Ala Val Phe
            180                 185                 190
Leu Gln Ala Gly Ile Gly Arg Pro Asp Glu Arg Met Asp Asp Ser Ser
        195                 200                 205
Asp Glu Asp Ser Ala Pro Gly Val Ser Gly Trp Glu Phe Pro Leu Cys
    210                 215                 220
His Ala Ala Gln His Met Val Pro Gln Ala Thr Ala Pro Phe Val His
225                 230                 235                 240
Leu Asn Leu Phe Gly Gln Pro Arg Asp Glu Glu Gly Glu Met Tyr Glu
                245                 250                 255
Thr Arg Glu Asp Arg Tyr Arg Val Phe Glu Asn Arg Phe Leu Gly Ala
```

```
            260                 265                 270
Val Gln Arg Gly Leu Glu Ser Ala Arg Gly Glu Gly Gly Glu Val Gly
        275                 280                 285
Arg Ala Ser Ala Ala Val Ser Ser Pro Arg Gly Ser Ala Asp Pro Arg
    290                 295                 300
Leu Ile Leu
305
```

<210> 23906
<211> 97
<212> PRT
<213> A.fumigatus

<400> 23906

```
Gln Arg Leu Leu Ala Thr Val Val Asp Ser Leu Ala Leu Glu Cys His
1               5                   10                  15
Thr Arg Arg Phe Cys Leu Ile Pro Asn Gly Lys Asp Val His Gln Gly
            20                  25                  30
Phe Arg Glu Val Thr Phe Arg Asp Leu Cys Cys Ala Val Asn Arg Met
        35                  40                  45
Ser Trp Trp Met Glu Lys His Val Ala Ser Ser Val Lys Gly Ala Thr
    50                  55                  60
Ile Ala Tyr Leu Gly Ser Asn Asp Ile Arg Tyr Ile Ile Leu Met Leu
65                  70                  75                  80
Ala Ser His Lys Thr Gly Cys Thr Val Ser Leu His Ser Leu Glu Met
                85                  90                  95
Glu
```

<210> 23907
<211> 163
<212> PRT
<213> A.fumigatus

<400> 23907

```
Val Leu Asp Glu Ser Ser Ala Ala Ala Ala Gly Ser His Met Asp Phe
1               5                   10                  15
Tyr Val Ala Lys Gly Leu Met Lys Lys Val Thr Val Gly Gly Leu Asp
            20                  25                  30
Leu Pro Thr Val Lys Thr Leu Gln Glu Tyr Gly Asp Val Val Ser Gly
        35                  40                  45
Arg Lys Glu Asp Pro Phe Gly Arg Lys Ser Phe Gly His Trp Lys Leu
    50                  55                  60
Thr Glu Val Leu Pro Glu Tyr Ala Val Tyr Val Gly Gln Val Thr Pro
65                  70                  75                  80
Val Ile His Phe Thr Met Gly Gly Val Val Ile Asp Glu Arg Ser Arg
                85                  90                  95
Val Ile Gly Thr Asp Gly Thr Pro Ile Glu Gly Leu Trp Ala Ala Gly
            100                 105                 110
Glu Val Thr Gly Gly Val His Gly Gln Asn Arg Leu Gly Gly Ser Ser
        115                 120                 125
Leu Leu Glu Cys Val Val Phe Gly Arg Ile Ala Gly Thr Glu Ala Ala
    130                 135                 140
Ala Trp His Lys Glu His Tyr Pro Glu Ala Pro Pro Ser Ser Asp Val
145                 150                 155                 160
Thr Arg Ser
```

<210> 23908
<211> 128
<212> PRT
<213> A.fumigatus

<400> 23908
Ile Ser Tyr Ala Ser Ile Ile Tyr Asn Leu Ala Ile Val Pro Tyr Pro
1 5 10 15
Ala Met Phe Ser Val Ile Val Pro Gly Arg Ala Cys Leu Thr Asp Ile
20 25 30
Val Ala Val Asp Ala Gln Pro Asn Gly Gln Ala Thr Lys Phe Ala Phe
35 40 45
Thr Phe Pro Leu Asn Pro Pro Phe Thr Glu Ile Val Val Phe Phe Leu
50 55 60
Pro Gly Thr Val Leu Pro Gln Asp Thr Ala Ala Ala Ile Tyr Ile Gln
65 70 75 80
Leu Pro Glu Ser Thr Pro Ser Pro Asn Gly Pro Pro Phe Arg Phe Ile
85 90 95
Gly Ala Leu Ala Asn Glu Lys Pro Ser Ala Val Phe Lys Val Gln Arg
100 105 110
Arg Val Leu Thr Asn Thr Ala Pro Pro Leu Arg Asn Arg Arg Ala Arg
115 120 125

<210> 23909
<211> 249
<212> PRT
<213> A.fumigatus

<400> 23909
Cys Cys Ala Arg Tyr Ile Phe Asn Ser Val Val Glu Lys Phe Tyr Trp
1 5 10 15
Pro Glu Asp Cys Trp Ser Val Asp Phe Thr Asp Arg Thr Val Thr Leu
20 25 30
Val Thr Leu Pro Asn Ala Thr Ala Asp Gln Arg Ser Gln Leu Val Ala
35 40 45
Glu Thr Phe Arg Glu Val Val Lys Arg Gly Pro Phe Asp Ile Leu Lys
50 55 60
Gly Trp Arg Asn Glu Leu Tyr Pro Val Tyr Gly Pro Gly Gly Glu Phe
65 70 75 80
Leu Leu Glu Met Glu Arg Ser Ala Ser Pro Leu Phe Gly Ile Val Ser
85 90 95
Tyr Gly Val His Cys Thr Cys Tyr Val Glu Asp Glu His Gly Leu Arg
100 105 110
Ile Trp Val Pro Arg Arg Ser Arg Thr Lys Gln Thr Tyr Pro Gly Met
115 120 125
Leu Asp Asn Ser Val Ala Gly Gly Met Ser Thr Lys Glu Asn Pro Phe
130 135 140
Glu Cys Leu Val Arg Glu Ala Met Glu Glu Ala Ser Leu Pro Glu Asp
145 150 155 160
Val Val Arg Gln Asn Ala Arg Ser Val Gly Cys Val Thr Tyr Val Tyr
165 170 175
Val Arg Gly Ala Arg Ala Gly Gly Glu Thr Asp Leu Leu Gln Pro Glu
180 185 190
Val Glu Tyr Val Tyr Asp Ile Lys Leu Asn Ala Asp Val Ile Pro Arg

```
        195                 200                 205
Pro Cys Asp Ser Glu Val Glu Glu Phe Asn Leu Tyr Thr Ile Glu Glu
    210                 215                 220
Thr Lys Lys Ala Leu Ala Asn Gly Glu Phe Lys Pro Asn Leu His His
225                 230                 235                 240
Gly Ala Gly Arg Ser Ala His Ala Leu
                245
```

<210> 23910
<211> 102
<212> PRT
<213> A.fumigatus

<400> 23910

```
Ile Ile Leu Ser Ala Asp Ala Gly His Pro Ser Val Val Lys Asn Tyr
1               5                   10                  15
Arg Ser Gly Gly Ile Gly Met Glu Thr Leu Leu Met Glu Tyr Ala Ala
            20                  25                  30
Ser Thr Met Met Leu Ile Asn Met Leu Val Asp Ala Pro Glu Asn Asp
        35                  40                  45
Leu Gln Leu Arg Cys His Ile Arg Ala His Phe Ile Ser Cys Gly Thr
    50                  55                  60
Asn Arg Leu Leu Thr Lys Met Glu Gly Phe Gln Tyr Glu Val Ile Asp
65                  70                  75                  80
Lys Gln Ile Glu Arg Ser Arg Glu Asn Glu Ala Ile Asp Tyr Glu Asp
                85                  90                  95
Leu Leu Gln Arg Glu Gln
            100
```

<210> 23911
<211> 501
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (393),(418)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23911

```
Leu Ile Ser Arg Ser Ser Gly Pro Glu Lys Met Arg Pro Leu Thr Thr
1               5                   10                  15
Arg Ile Ser Phe Ser Glu Ser Ser Ser Ser Met Lys Asp Ser Ile Glu
            20                  25                  30
Gly Glu Val Lys Asp Met Ser Asp Pro Leu Gln Ile Thr Asp Ala Ile
        35                  40                  45
Leu Thr Arg Leu Asn Gly Thr Arg Ala Tyr Asp Tyr Phe Leu Ser Ala
    50                  55                  60
Met Gln His Met Leu Leu Ile Arg Glu Asn Ser Gly Glu Asp Gly Leu
65                  70                  75                  80
Arg Met Phe Gln Leu Val Asp Ala Met Leu Ser Tyr Val Ala Met Asp
                85                  90                  95
Arg Arg Leu Pro Asp Leu Asp Phe Arg Gln Gly Leu Thr Phe Thr Val
            100                 105                 110
Gln Ser Leu Leu Asp Arg Leu His Thr Asp Ala Glu Ala Arg Arg Ala
        115                 120                 125
```

```
Tyr Asp Glu Ser Leu Glu Ala Arg Gln Ile Ala Glu Ala Ala Ile Ala
    130                 135                 140
Glu Arg Asp Glu Met Lys Ala Gln Val Glu Met Gly Ala Asp Gly Leu
145                 150                 155                 160
Val Lys Lys Leu Gln Lys Gln Ile Asp Glu Gln Thr Ser Ile Ile Glu
                165                 170                 175
Leu Gln Thr Arg Gln Asn Asp Ala Leu Lys Ala Glu Leu Ala Asp Val
            180                 185                 190
Gln Arg Leu Arg Ala Gln Glu Leu Gln Arg Asn Glu Leu Glu Thr Arg
        195                 200                 205
Glu Leu Tyr Leu Met Leu Arg Asp Ala Gln Asp Ile Ala Ala Ser Asn
    210                 215                 220
Ala Lys Lys Asn Asn Leu Ala Glu Thr Asp Pro Ser His Met Lys Gly
225                 230                 235                 240
Ile Leu Glu Arg Asp Arg Met Leu Glu Arg Leu Glu Lys Gln Leu Glu
                245                 250                 255
Arg Thr Lys Thr Gln Phe Lys Leu Glu Gly Lys Val Trp Gly Gln His
            260                 265                 270
Gly Pro Ser Asp Arg Leu Arg Glu Leu Arg Glu Gln Met Asp Gly Glu
        275                 280                 285
Pro Asp Pro Glu Asp Phe Gln Glu Gln Ala Arg Arg Asn Leu Glu Thr
    290                 295                 300
Ser Ala Leu Gly Ser Val His Arg Lys Arg Ser His Val Pro Glu Met
305                 310                 315                 320
Asp Val Ala Asn Gly Gln Glu Arg Pro Ser His Gln Asp Gly Pro Leu
                325                 330                 335
Leu Val Asn Phe Gly Arg Pro Arg Met Asp Pro Glu Gln Ala Ser Asp
            340                 345                 350
Leu Leu Gly Glu Ile Ala Ser Lys Val Pro Lys Ile Asp Ala Glu Asp
        355                 360                 365
Ala Glu Thr Asp Glu Phe Asn Ala Gln Pro Thr Gln Leu Glu Thr Glu
    370                 375                 380
Glu Ala Arg Val Gly Gln Val Glu Xaa Val Lys Pro Glu Asp Glu Thr
385                 390                 395                 400
Glu Lys Pro Glu Glu Lys Pro Val Ser Val Pro Ala Pro Pro Pro Pro
                405                 410                 415
Pro Xaa Ser Pro Thr Pro Pro Pro Pro Pro Gly Gly Ala Val Gly Ile
            420                 425                 430
Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Gly Ala
        435                 440                 445
Gln Gly Leu Gly Ser Ser Ala Ser Gly Gly Ser Ser Thr Pro Ser Trp
    450                 455                 460
Leu Cys Trp Lys Asp Cys Leu His Pro Pro Pro Ala Pro Ala Arg Phe
465                 470                 475                 480
Gly Leu Glu Lys Pro Leu Pro Pro Ser Ala Pro Pro Gly Val Trp Arg
                485                 490                 495
Lys Val Gly Glu Phe
            500
```

<210> 23912
<211> 155
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (68),(93)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23912
Gly Phe Phe Gln Thr Glu Pro Gly Gly Gly Arg Arg Gly Val Glu Ala
1 5 10 15
Ile Leu Pro Ala Lys Pro Gly Gly Gly Gly Gly Ala Ala Gly Gly Gly
20 25 30
Thr Pro Gln Thr Leu Gly Thr Arg Arg Arg Arg Arg Arg Trp Trp Arg
35 40 45
Trp Trp Arg Arg Arg Asn Ala Tyr Arg Thr Thr Trp Arg Arg Trp Arg
50 55 60
Gly Gly Gly Xaa Gly Arg Arg Gly Arg Cys Arg His Gly Tyr Arg Phe
65 70 75 80
Leu Phe Gly Leu Phe Ser Leu Ile Leu Gly Leu Asp Xaa Phe Asn Leu
85 90 95
Thr Asp Pro Ser Phe Phe Ser Leu Lys Leu Ser Trp Leu Ser Ile Lys
100 105 110
Leu Val Gly Phe Gly Ile Phe Ser Val Asn Leu Trp Asn Phe Arg Ser
115 120 125
Asn Leu Pro Gln Gln Ile Arg Arg Leu Leu Arg Ile His Ser Gly Ser
130 135 140
Ser Lys Val Asp Glu Lys Trp Pro Ile Leu Val
145 150 155

<210> 23913
<211> 112
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (85),(110)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23913
Gly Asn Ser Pro Thr Phe Arg Gln Thr Pro Gly Gly Ala Glu Gly Gly
1 5 10 15
Arg Gly Phe Ser Lys Pro Asn Leu Ala Gly Ala Gly Gly Gly Trp Arg
20 25 30
Gln Ser Phe Gln Gln Ser Gln Glu Gly Val Glu Glu Pro Pro Glu Ala
35 40 45
Glu Leu Pro Lys Pro Trp Ala Pro Gly Gly Gly Gly Gly Gly Gly Gly
50 55 60
Gly Gly Gly Gly Gly Gly Met Pro Thr Ala Pro Pro Gly Gly Gly Gly
65 70 75 80
Gly Val Gly Glu Xaa Gly Gly Gly Gly Gly Ala Gly Thr Asp Thr Gly
85 90 95
Phe Ser Ser Gly Phe Ser Val Ser Ser Ser Gly Leu Thr Xaa Ser Thr
100 105 110

<210> 23914
<211> 90
<212> PRT
<213> A.fumigatus

<400> 23914
His Arg Arg Arg Tyr Thr Phe Ser His Ser Asp Ser Arg Thr Lys Leu
1 5 10 15
Thr Glu Tyr Ala Asp Cys Val Ser Phe Lys Pro Asn Ser Thr Asn Ile
20 25 30
Leu Val Gln Asn Leu His Cys Asn Gly Ser His Gly Ile Ser Val Gly
35 40 45
Ser Leu Gly Gln Tyr Lys Gly Glu Val Asp Ile Val Gln Asn Val Leu
50 55 60
Val Tyr Asn Ile Ser Met Tyr Asn Ala Ser Val Gly Val Ser Arg Leu
65 70 75 80
Pro Glu Phe Leu Leu Ala Asn Ser Phe Phe
85 90

<210> 23915
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23915
Asp Gly Ala Arg Ile Lys Val Trp Pro Gly Val Ser Ser Ala Met Ser
1 5 10 15
Glu Asp Leu Gln Gly Gly Gly Gly Leu Gly Ser Val Lys Asn Val Thr
20 25 30
Tyr Asn Gln Met Tyr Ile Glu Asn Val Asp Trp Ala Ile Glu Val Thr
35 40 45
Gln Cys Tyr Gly Gln Lys Asn Leu Thr Leu Cys Asn Glu Tyr Pro Val
50 55 60
Arg Pro Phe Phe Leu Ile His Asn Asp His Tyr
65 70 75

<210> 23916
<211> 99
<212> PRT
<213> A.fumigatus

<400> 23916
Trp Ser His Ala Ser Asp Gly Met Ser Trp Gln Pro Ile Ile Lys Ser
1 5 10 15
Tyr Tyr Gln Thr Leu Pro Arg Phe Lys Ala Val Ser Ala Tyr Ser Ile
20 25 30
Pro Asp Glu His Leu Cys Ala Val Asn Ile Gln Lys Ala Leu Val Asp
35 40 45
Leu Val Asn Ala Val Ser Leu Ser His Thr Leu Ser Arg Arg Arg Thr
50 55 60
Tyr Ile Gly Ala Asp Glu Val Ile Arg Ser Leu Gly Thr Leu His Val
65 70 75 80
Asp Val Leu Ser Val Asp Val Arg Ala Asn Leu Arg Val Leu Glu Pro
85 90 95
Leu Leu Leu

<210> 23917
<211> 181
<212> PRT
<213> A.fumigatus

<400> 23917
Thr Glu Thr Pro Asp Gly Met Ala Arg Gly Phe Arg Gly Lys Pro Ser
1 5 10 15
Gln Phe Arg Ser Ser Phe Lys Val Asn Arg Glu Ala Arg Glu Lys Pro
20 25 30
Leu Arg Glu Phe Val Pro Tyr Phe Arg Thr Glu Val Ser Pro His Ala
35 40 45
Cys Ile Tyr Leu Ala Pro Glu Arg Asp Thr Val Arg Leu Gly Glu Ala
50 55 60
Val Leu Ala Tyr Leu Gly Glu Ala Glu Arg His Ala Leu Gln Arg Met
65 70 75 80
Ile Ile Glu Val Asn Asp Tyr Leu Leu Phe Glu Thr Tyr Gly Leu Glu
85 90 95
Ser Leu Gly Cys Met Gln Arg Leu Lys Glu Val Asp Leu Ile Val Ser
100 105 110
Gln Thr Pro Val Ala Ser Tyr His Arg Arg Asp Ile Val Glu Val Ile
115 120 125
Arg Asp Ala Phe Gln Glu Tyr Val Arg Asn His Thr Gln Trp Gln Ile
130 135 140
Pro His Val Arg Val Val Ser Ala Leu Gly Lys Gln Met Gly Ser Phe
145 150 155 160
Thr Ile Asp Pro Ala Glu Met Asp Thr Val Gln Pro Ser Val Leu Phe
165 170 175
Asp Gly His Ala Gly
180

<210> 23918
<211> 225
<212> PRT
<213> A.fumigatus

<400> 23918
Phe Leu Ala Ala Met Asn Pro Asn Ser Ile His Gln Gly Asp Pro Glu
1 5 10 15
Gly Glu Leu Phe Leu Asn Ser Ala Ser Arg Pro Pro Ala Glu Ser Pro
20 25 30
Val Val Gly Pro Leu Arg Ile Ser Lys Arg Asp Thr Pro Ser Pro Ala
35 40 45
Ser Gln Gly Ser Ala Pro Leu Pro Tyr Pro Asp Asp Arg Pro Arg Leu
50 55 60
Gly Gln Met Arg Ser Ser Ser Gly Ser Thr Gly Ser Ser Pro Thr Ala
65 70 75 80
Gly Glu Ser Gly Arg His Gly Ser Pro Ile Ser Ser Val Asn Asn Leu
85 90 95
Ser Ser Met Pro Ala Gly Ser Ser Ala Thr Arg Pro Ser Glu Tyr Pro
100 105 110
Ala Ala Leu Arg Pro Arg Asp Gly Arg Glu Pro Lys Pro Ala Thr Leu
115 120 125
Ala Glu Arg Arg Gly Asn Thr Ala Pro Lys Pro Leu Pro Glu Ser Pro
130 135 140
Gly Pro Asp Ala Pro Asp Arg Glu Ala Leu Phe Gly Arg Lys Tyr Gln
145 150 155 160
Arg Leu Pro Ala Ser Ser Ala Leu Ser Ser Asp Gly Met Gln Arg Glu
165 170 175
Glu Gly Ile Ala Tyr Pro Asp Tyr Gln Gln Gln Tyr Trp Pro Pro Pro

```
            180                 185                 190
Gln Pro Ser Thr Pro Ser Ala Leu Ser Thr Arg Val Gly Val Ser Gln
        195                 200                 205
Ser Leu Gln Pro Pro Val Phe Thr Thr Gly Leu Glu Gly Ala Leu Pro
    210                 215                 220
Leu
225
```

<210> 23919
<211> 91
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23919

```
Trp Arg Arg Ala Thr Lys Val Leu Xaa Ile Ser Ile Leu Ala His Ala
1               5                   10                  15
Ala Gln Phe Ala Phe Leu Val Phe Val Glu Asn Pro His Ile Glu Lys
            20                  25                  30
Thr Tyr Asn Pro Pro Pro Pro Arg Lys Arg Thr Ile Glu Gln Asp Asn
        35                  40                  45
Val Ser Ile Thr Pro Gln Arg Ser Asp Ser Pro Ser Ala Pro Ala Ser
    50                  55                  60
Val Asp Glu Gln Val Pro Met Arg Gln Val Ile Gln Arg Ser Thr Pro
65                  70                  75                  80
Ser Val His Lys Leu Leu Gly Phe Arg Lys Pro
                85                  90
```

<210> 23920
<211> 271
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (251)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23920

```
Leu Thr Asn Ser Ile Val Cys Thr Val Pro Gln Thr Gln Asp Met Val
1               5                   10                  15
Ser Gln Leu Ile Ser Pro Ser Glu Pro Lys Asn Leu Ser Asp Val Ile
            20                  25                  30
Val Leu Ala Ile Leu Ala Ala His Ile Leu Leu Leu Trp Arg Leu Pro
        35                  40                  45
Ala Gly Val Lys Val Pro Val Phe Ala Phe Ile Tyr Leu Phe Trp Arg
    50                  55                  60
Gly Ala Tyr Asn Ala Gly Ile Gly Trp Leu Leu His Asn Gln Ser Asn
65                  70                  75                  80
His Arg Thr Leu Val Arg Trp Ala Glu Lys Thr Lys Ile Phe Val Asn
                85                  90                  95
Pro Ala Thr Gly Gln Asn Pro His Ala Asn Leu Tyr Lys Leu Ile Lys
```

```
            100                 105                 110
Arg Glu Leu Glu Thr Lys Ile Pro Ala Asp Tyr Ser Phe Glu Asp Ala
        115                 120                 125
Pro Ile Glu Tyr Asn Thr Trp Leu Val Phe Arg Arg Leu Val Asp Leu
    130                 135                 140
Ile Leu Met Cys Asp Phe Thr Ser Tyr Cys Leu Phe Ala Ile Ala Cys
145                 150                 155                 160
Ser Gln Arg Pro Phe Asp Glu Gly Thr Leu Met Thr Val Leu Arg Trp
                165                 170                 175
Ser Ala Gly Ile Val Leu Val Leu Phe Asn Leu Trp Val Lys Leu Asp
            180                 185                 190
Ala His Arg Val Val Lys Asp Tyr Ala Trp Tyr Trp Gly Asp Phe Phe
        195                 200                 205
Phe Leu Ile Asp Gln Glu Leu Thr Phe Asp Gly Val Phe Glu Met Ala
    210                 215                 220
Pro His Pro Met Tyr Ser Val Arg Leu Cys Trp Ile Leu Arg Tyr Leu
225                 230                 235                 240
Ala Asn Gly Gly Glu Leu Gln Arg Ser Cys Xaa Ser Leu Phe Ser Pro
                245                 250                 255
Met Gln His Asn Ser Leu Ser Trp Ser Ser Ser Arg Ile Arg Thr
            260                 265                 270
```

<210> 23921
<211> 92
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (58)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23921

```
Ser Thr Thr Glu Pro Pro Ile Pro Pro Asn Arg Arg Phe Ala Ala Asn
1               5                   10                  15
Ile Ile Glu Phe Leu Glu Pro Ser Asn Gln His Ile Ile Ser Leu Pro
            20                  25                  30
Leu Leu Leu Lys Met Pro Leu Ser Lys Glu Asn Arg Met Gln Met Ala
        35                  40                  45
Ile Ser Ala Tyr Lys Lys Gly Gln Phe Xaa Ser Lys Ala Ala Ala Ala
    50                  55                  60
Lys Val Phe Gly Val Ser Lys Lys Thr Leu Pro Asp Arg Leu Cys Gly
65                  70                  75                  80
Ile Lys Thr Thr Arg Lys Asn Thr Pro Leu Ile Ala
                85                  90
```

<210> 23922
<211> 328
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (322),(323)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23922
Tyr Ser Asn Phe Trp Gln Thr Asp Phe Ser Arg Tyr Pro Cys Leu Ile
1 5 10 15
Cys Arg Asp Phe Leu Ser Gly Val Val Ser Leu Val Ala Pro Ser Gln
20 25 30
Gln Ala Ser Leu Ala Thr Leu Phe Thr Tyr Thr Thr Leu Arg Phe Ile
35 40 45
Met Leu Asn Ser Ile Thr Glu Leu Pro Glu Gly Val Ala Lys Asn Ser
50 55 60
Glu Ile His Ser Leu Ala Ile Arg Ile Leu Val Val Val Phe Asn Ser
65 70 75 80
Ile Ala Leu Tyr Asn Ala Val Glu Leu Val Ile Leu Ile Phe Leu Thr
85 90 95
Phe Asn Arg Tyr Ser Gly Leu Tyr Phe Trp Ser Leu Leu Leu Ser Gly
100 105 110
Val Leu Gly Val Ile Pro His Ala Val Gly His Leu Leu Gln Phe Phe
115 120 125
Arg Ile Gly Pro Ile Gly Leu Ala Ile Ser Ile Ala Thr Ile Gly Phe
130 135 140
Tyr Phe Met Val Pro Gly Gln Ser Phe Val Leu Tyr Ser Arg Leu His
145 150 155 160
Leu Val Val Gln Asn Gln Lys Leu Leu Arg Arg Val Leu Tyr Ile Ile
165 170 175
Ile Ile Asp Ser Ile Val Leu Leu Ile Pro Thr Thr Val Leu Asn Tyr
180 185 190
Leu Thr Val Tyr Val Gly Thr Gln Pro Val Ile Lys Gly Tyr Asn Phe
195 200 205
Val Glu Arg Met Gln Ile Ser Trp Phe Thr Ala Gln Glu Met Phe Ile
210 215 220
Ser Gly Ile Tyr Ile Val Glu Thr Ile Lys Leu Leu Arg Leu Arg Pro
225 230 235 240
Asp Lys Ala Ser Ser Arg Asn Lys Ile Met Tyr Glu Leu Ile Ala Ile
245 250 255
Asn Leu Val Met Val Leu Leu Asp Val Ala Leu Leu Val Leu Glu Tyr
260 265 270
Leu Arg Leu Tyr Thr Leu Pro Val Thr Leu Lys Gly Ala Val Tyr Asn
275 280 285
Val Lys Leu Lys Leu Glu Phe Gly Val Leu Lys Lys Leu Val Ser Leu
290 295 300
Ile His Ala Pro Gln Val Ser Asn Leu Gln Arg Arg Arg Met Ser Ile
305 310 315 320
Pro Xaa Xaa Ser Thr His Leu Glu
325

<210> 23923
<211> 86
<212> PRT
<213> A.fumigatus

<400> 23923
Cys Val His Ser Phe Ala Glu Ser Gln Arg Asp Asn Tyr Leu Phe Ala
1 5 10 15
Ala Thr Ser Asp Ser Ala Ile Ala Lys Ala Glu Gly Val Lys Gln Pro
20 25 30
Ser Ile Val Leu Tyr Lys Asp Phe Asp Glu Lys Asn Ala Val Tyr Asp
35 40 45

```
Gly Ala Ile Glu Gln Glu Ala Ile Leu Ser Trp Val Lys Thr Ala Ser
    50                  55                  60
Thr Pro Leu Val Gly Glu Ile Gly Pro Glu Thr Tyr Ser Ser Tyr Ile
65                  70                  75                  80
Thr Val Cys Phe Cys Pro
                85
```

<210> 23924
<211> 147
<212> PRT
<213> A.fumigatus

<400> 23924

```
Ala Gly Ile Pro Leu Ala Tyr Ile Phe Ala Glu Thr Lys Glu Glu Arg
1               5                  10                  15
Asp Gln Tyr Ala Glu Asp Phe Lys Pro Val Ala Glu Lys His Lys Gly
            20                  25                  30
Ala Ile Asn Ile Ala Thr Ile Asp Ala Lys Met Phe Gly Ala His Ala
        35                  40                  45
Gly Asn Leu Asn Leu Asp Pro Gln Thr Phe Pro Ala Phe Ala Ile Gln
    50                  55                  60
Asp Pro Glu Lys Asn Ala Lys Tyr Pro Tyr Asp Gln Ser Arg Glu Phe
65                  70                  75                  80
Asn Ala Lys Glu Ile Gly Lys Phe Ile Gln Asp Val Leu Asp Gly Lys
                85                  90                  95
Val Glu Pro Ser Ile Lys Ser Glu Pro Ile Pro Glu Thr Gln Glu Gly
            100                 105                 110
Pro Val Thr Val Val Val Ala His Ser Tyr Gln Asp Ile Val Ile Asn
        115                 120                 125
Asn Asp Lys Asp Val Leu Leu Glu Phe Tyr Ala Pro Trp Cys Gly His
    130                 135                 140
Cys Lys Ala
145
```

<210> 23925
<211> 178
<212> PRT
<213> A.fumigatus

<400> 23925

```
Ala Asn Val Ser Phe His Ser Leu Ala Pro Lys Tyr Glu Glu Leu Ala
1               5                  10                  15
Ala Leu Tyr Ala Gly Asp Phe Lys Asp Lys Val Thr Ile Ala Lys Ile
            20                  25                  30
Asp Ala Thr Ala Asn Asp Val Pro Asp Ser Ile Ala Gly Phe Pro Thr
        35                  40                  45
Ile Lys Leu Tyr Pro Ala Gly Ala Asn Asp Ser Pro Val Glu Tyr Ser
    50                  55                  60
Gly Ser Arg Thr Val Glu Asp Leu Ala Asn Phe Ile Lys Glu Asn Gly
65                  70                  75                  80
Lys Tyr Lys Val Asp Ala Leu Val Ala Ala Ser Glu Lys Val Glu Glu
                85                  90                  95
Arg Pro Asp Val Thr Ala Ser Pro Ser Ala Thr Ser Thr Asp Ala Glu
            100                 105                 110
Ala Pro Ala Ala Thr Gly Asp Glu Lys Gly Asp His Asp Glu Leu Tyr
        115                 120                 125
```

Thr Thr Thr Leu Ala Glu Gly Arg Arg Phe Ser Ile Gln Ile Ser Ser
130 135 140
Phe Met Ile Ile Phe Tyr Pro Ser Arg Phe Tyr Phe Pro Leu Ser Val
145 150 155 160
Ser Ser Gly Pro Ile Pro Lys Glu Pro His Tyr Pro Ala Asp Lys Ile
165 170 175
Ala His

<210> 23926
<211> 150
<212> PRT
<213> A.fumigatus

<400> 23926
Leu Lys Ser Phe Ala Asp Ser Asp Ser Arg Gln Pro Phe Ser Asp Ser
1 5 10 15
Ser Ser Leu Ala Arg His Arg Arg Ile His Ser Gly Lys Arg Pro Tyr
20 25 30
Lys Cys Pro Tyr Ala Asn Cys Gln Lys Thr Phe Thr Arg Arg Thr Thr
35 40 45
Leu Thr Arg His Gln Asn His His Thr Gly Thr Ile Glu Glu Ala Ala
50 55 60
Ala Glu Thr Glu Ala Asn Leu Arg Gln Asn Lys Glu Arg Val Arg Ala
65 70 75 80
Pro Gly Asp Gly Gly Phe Ser Glu His Ala Ser Val His Ser Thr Pro
85 90 95
Ser Pro Ala His His Pro Val Ser Ile Pro Pro Pro Gly Asp Leu Pro
100 105 110
Pro Leu Asn Met Pro Arg Ser Ala Gly Asp Tyr Tyr Met Gly Asn Gly
115 120 125
Ser Ile Pro Pro His Val Arg Gly Asp Phe Ser Gln Ala Ser Pro Arg
130 135 140
Ser Ser Pro Thr Ala Thr
145 150

<210> 23927
<211> 84
<212> PRT
<213> A.fumigatus

<400> 23927
Gly Val Ala Thr Ser Leu Asp Met Val Arg Phe Pro Trp Glu Tyr Met
1 5 10 15
Arg Glu Val Lys His Gln Ala Thr Asp His Ile Leu Glu Arg Ile His
20 25 30
Thr Gly Ile Arg Pro His Ala Cys Asp Trp Pro Gly Cys Gly Lys Gln
35 40 45
Phe Ile Gln Arg Ser Ala Leu Thr Val His Ser Arg Val His Thr Gly
50 55 60
Glu Lys Pro His Met Cys Glu Arg Cys Gly Lys Val Cys Arg Tyr Thr
65 70 75 80
Val Phe Tyr Ser

<210> 23928

<211> 62
<212> PRT
<213> A.fumigatus

<400> 23928
Leu Ile Leu Gly Thr Tyr Leu Asp Ile Thr Phe Ile Ile Ser Lys Leu
1 5 10 15
Ala Tyr Phe Thr Arg Asn Pro Ser Pro Asn Tyr Phe Ile Ile Val Lys
20 25 30
Tyr Ile Phe Tyr Tyr Leu Ala Gly Met Leu Leu Leu Leu Leu Phe Tyr
35 40 45
Ser Phe Ile Leu Ser Asn Leu Asn Ser Phe Val Asn Thr Ser
50 55 60

<210> 23929
<211> 255
<212> PRT
<213> A.fumigatus

<400> 23929
Phe Phe Ser Ile Phe Gly Val Asp Asn Pro Ala Leu Asn Thr Val Pro
1 5 10 15
Leu Ile Val Ile Val Val Ala Thr Ala Ile Lys Asp Ala Ile Glu Asp
20 25 30
Trp Arg Arg Thr Val Leu Asp Asn Glu Leu Asn Asn Ser Pro Val Tyr
35 40 45
Arg Leu Val Glu Trp Asn Asn Val Asn Ser Thr Glu Asp Lys Val Ser
50 55 60
Leu Trp Arg Arg Phe Lys Lys Ala Cys Thr Arg Ala Thr Ile Ser Thr
65 70 75 80
Tyr Arg Trp Ile Arg Arg Leu Met Lys Lys Asn Lys Asp Val Pro Gln
85 90 95
Met Phe Gln Asp Glu Arg Arg Ala Ser Ile Leu Thr Thr Val Thr Pro
100 105 110
Arg Ala Ser Val Tyr Ser Gln Arg Gly Asp His Gly Met Glu Glu Asp
115 120 125
Ala Ile Gln Met Thr Pro Val Pro Ser Pro Ser Ala Glu Ala Arg Ala
130 135 140
Asp Trp Pro Leu Pro Ala Gly Asp Ser Asp Gln Phe Leu His Pro Asp
145 150 155 160
Lys Arg Asn Arg Asp Ser Leu Gln Ala Val Thr Ser Pro Val Thr Pro
165 170 175
Pro Arg Lys Gly Gly Ser Val Val Asp Pro Ser Lys Gln Thr Ile Gly
180 185 190
Lys Ala Arg Phe Lys Arg Asp Tyr Trp Lys Asn Ile Gln Val Gly Asp
195 200 205
Phe Val Arg Leu Tyr Asn Gly Asp Pro Ile Pro Ala Asp Ile Val Val
210 215 220
Leu Ser Thr Ser Asp Pro Asp Gly Ala Cys Tyr Val Glu Thr Lys Asn
225 230 235 240
Leu Gly Leu His Arg Gly Ser Glu Arg Val Arg Ser Met Gly Asn
245 250 255

<210> 23930
<211> 197
<212> PRT

<213> A.fumigatus

<400> 23930

```
Tyr Phe Lys Leu Leu Asn Thr Pro Glu Ser Phe Thr Tyr Asn Gln Leu
1               5                  10                  15
Gln Ser Pro Asp His Pro Lys Ala Ala Ala Thr His Ser Pro His Pro
            20                  25                  30
Ser Tyr Asn Cys Gly Asn Ser Arg Thr Val Pro Cys Leu Ser Ser Thr
        35                  40                  45
Ser Arg Thr Ser Ser Arg Arg Ser His Thr Arg Arg Ala Ser Cys Phe
    50                  55                  60
Asp Thr Arg Leu His Arg Leu Arg Arg Thr Gly Ser Arg Thr Arg Arg
65                  70                  75                  80
Ser Gly Asn Pro Gln Thr Thr Arg Leu Ala Arg His Cys Gly His Arg
                85                  90                  95
Val Pro Cys Ser Arg Arg Ala Arg Arg Arg Ser Lys Arg Arg Cys Arg
            100                 105                 110
Arg Ser Arg Thr Arg Pro Ile Pro Arg Glu Ile Ala Arg Leu Val Gly
        115                 120                 125
Arg Gly Thr Gly Val Gln Leu Arg Ala Ser Gly Ile Ile Met Leu Gly
    130                 135                 140
Arg Gly Ala Ala Ala Ala Thr Val Gly Asp Val Ala Asp Phe Ala Cys
145                 150                 155                 160
Val Gly Asp Val Pro Asp His Ala Gly Phe Val Pro Leu Val Ala Gly
                165                 170                 175
Glu Gly Gly Asp Thr Ala Ser Gln Val Gly Ala Gly Gly Asp Gly Gly
            180                 185                 190
Gly Glu Ser Cys Arg
        195
```

<210> 23931
<211> 207
<212> PRT
<213> A.fumigatus

<400> 23931

```
Arg Thr Ala Pro Tyr Phe Ala Ser Asp Thr Pro Leu Leu Arg Thr Leu
1               5                  10                  15
Ser Ser Lys Met Arg Phe Phe Leu Leu Leu Ala Thr Thr Leu Ala Ser
            20                  25                  30
Thr Val Ser Ala Arg Thr Asp Leu Arg Gly Cys Ile Ser Ser Leu Thr
        35                  40                  45
Arg Asn Gln Trp Asn Glu Ala Ser Met Ile Trp Tyr Val Pro Asp Thr
    50                  55                  60
Gly Glu Ile Cys Asp Ile Pro Asp Cys Gly Gly Gly Arg Ala Pro Pro
65                  70                  75                  80
Lys His Asp Asn Pro Ala Cys Pro Glu Leu Tyr Thr Gly Thr Ala Thr
                85                  90                  95
Tyr Glu Pro Ser Tyr Leu Pro Gly Tyr Gly Pro Gly Ala Ala Ala Ser
            100                 105                 110
Thr Pro Thr Leu Ala Ala Thr Ala Ser Ala Ser Thr Thr Gly Asp Ala
        115                 120                 125
Met Thr Thr Met Ser Ser Glu Ala Ser Ser Leu Arg Ile Thr Ala Ala
    130                 135                 140
Pro Ser Thr Thr Ala Ser Ala Thr Glu Thr Met Lys Thr Ser Val Lys
145                 150                 155                 160
```

```
Ala Gly Ser Ser Ser Ser Val Ala Ser Thr Thr Thr Gly Ser Ala Gly
                165                 170                 175
Ala Thr Glu Thr Gly Asn Gly Ala Gly Ile Pro Ala Val Val Thr Trp
            180                 185                 190
Val Gly Ala Val Gly Cys Arg Cys Leu Trp Val Val Arg Ala Leu
        195                 200                 205
```

<210> 23932
<211> 133
<212> PRT
<213> A.fumigatus

<400> 23932

```
Leu Gln Asp Ala Pro Asn Arg Leu Tyr Lys Ser Phe Ser Cys Arg Thr
1               5                   10                  15
Val Ser Thr Ile Ala Ala Cys Trp Cys Pro Asp Val Pro Pro Pro Thr
            20                  25                  30
Leu Ser Gly Pro Pro Trp Arg Glu Arg Thr Thr Cys Asn Ala Leu Ser
        35                  40                  45
Ala Arg Pro Gly Phe Cys Arg Leu Phe Ser Leu Cys Leu Ser Cys Leu
    50                  55                  60
Phe Phe Leu Leu Leu Phe Ser Ser Pro Tyr Phe Pro Val Ile Ala Arg
65                  70                  75                  80
Asn Arg Gly Leu Arg Glu Gln Pro Ala Arg Arg Lys Asn Pro Thr Gln
                85                  90                  95
Gly Lys Thr Asn Gln Ser Thr Asn Phe Pro Gly Pro Gly Ile Ser Lys
            100                 105                 110
Lys Gln Thr Arg Leu Leu Arg Phe Ile Asn Thr Cys Pro Phe Leu Gly
        115                 120                 125
Ala Pro Ser Ala Asp
    130
```

<210> 23933
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23933

```
Pro Pro Ser Ser Glu Arg Ser Leu Phe Ser Leu Ser Arg Gly Lys Ala
1               5                   10                  15
Gln Asp Pro Glu Pro Ala Arg Arg Pro Ile His Tyr Leu Val Leu Pro
            20                  25                  30
Trp Asn Pro Leu Ser Gly Val Phe Thr Pro Gly Gly Ser Phe Val Ser
        35                  40                  45
Leu Phe Tyr Phe Cys Phe Asn Asn Pro Leu Ile Tyr Leu Phe Gly Val
    50                  55                  60
Pro Trp Tyr Val Phe Pro
65                  70
```

<210> 23934
<211> 245
<212> PRT
<213> A.fumigatus

<400> 23934

```
Arg Leu Phe Thr Met Leu Ser Ser Ile Ser Gly Val Ile Gly Gln Lys
```

```
1               5                   10                  15
Gly Gln Ala Asn Tyr Ala Gly Gly Asn Ala Phe Gln Asp Ala Phe Ala
            20                  25                  30
Glu Tyr Arg Arg Ala Leu Gly Leu Pro Ala Ile Ser Ile Asp Leu Gly
        35                  40                  45
Pro Val Glu Asp Val Gly Val Ile His Gly Asn Glu Asp Leu Gln Asn
    50                  55                  60
Arg Phe Asp Gly Ser Thr Leu Leu Ser Ile Asn Glu Gly Leu Leu Arg
65                  70                  75                  80
Arg Ile Phe Asp Tyr Ser Ile Leu Gln Gln His Pro Asp Pro Gln His
                85                  90                  95
Arg Leu Asn Val Thr Ser Gln Gly Gln Met Ile Thr Ser Ile Leu Val
            100                 105                 110
Pro Gln Pro Glu Asp Ser Asp Leu Leu Arg Asp Cys Arg Phe Arg Gly
        115                 120                 125
Leu Arg Ala Leu Gly Glu His Ser Pro Arg Ser Arg Arg Asp Pro Thr
    130                 135                 140
Lys Asp Lys Glu Ile Gln Ser Leu Leu Phe Leu Ala Gln Ser Gln Asp
145                 150                 155                 160
Pro Asp Arg Ala Ala Leu Arg Ala Ala Ala Ile Thr Val Val Gly Ala
                165                 170                 175
Arg Leu Ala Lys Gln Leu Arg Leu Thr Asp Ala Val Asp Pro Ala Arg
            180                 185                 190
Pro Leu Ser Tyr Tyr Gly Leu Asp Ser Leu Ala Ala Val Glu Leu Arg
        195                 200                 205
Thr Trp Val Arg Met Thr Leu Ala Ile Glu Leu Thr Thr Leu Asp Val
    210                 215                 220
Met Asn Ala Ala Ser Leu Gly Glu Leu Cys Glu Lys Val Ile Gly Lys
225                 230                 235                 240
Met Gly Phe Gly Met
                245
```

<210> 23935
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23935

```
Val Val Lys Asp Ser Ala Gln Gln Ala Leu Ile Asp Ala Glu Gln Ser
1               5                   10                  15
Ala Thr Val Glu Pro Ile Leu Glu Val Phe Val Thr Val Asn Asp Ser
            20                  25                  30
Asp Val Phe Tyr Gly Ser Glu Val Asn Thr Asp Gly Gly Gln Pro Gln
        35                  40                  45
Cys Ala Ala Ile Leu Cys Lys Gly Val Leu Glu Cys Ile Ala Thr Ser
    50                  55                  60
Val Val Gly Leu Ser Leu Leu Ala Tyr Asp Ala
65                  70                  75
```

<210> 23936
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23936
Gly Gly Gly Xaa Glu Leu Asn Ser Ser Met Pro Pro Leu Arg Gln Val
1 5 10 15
Thr Leu Phe Val Ser Trp Ala Asp Ser Ser Lys Lys Glu Tyr Asn Thr
20 25 30
Leu Glu Cys Arg Gly Thr Tyr Gly Cys Val Lys Tyr Lys Arg Pro Val
35 40 45
Gly Trp Lys Asp Gly Ser Phe Thr Ala Lys Pro Tyr Arg Tyr Ile Arg
50 55 60
Val Val Asp
65

<210> 23937
<211> 61
<212> PRT
<213> A.fumigatus

<400> 23937
Val Ser Asn Phe Ile Gln Trp His Asp Asp Leu Ile Ser Lys Tyr Thr
1 5 10 15
His Lys Tyr Asp Tyr Gln Arg Ala Lys Tyr Lys Asp Pro Glu Val Ile
20 25 30
Asn Gln Trp Phe Asn Leu Val Lys Asn Thr Ile Val Lys Tyr Gly Ile
35 40 45
Leu Lys Gln Asp Ile Tyr Asn Phe Asp Glu Thr Gly Phe
50 55 60

<210> 23938
<211> 374
<212> PRT
<213> A.fumigatus

<400> 23938
Asn Asp Gly Glu Ser Trp Ser Ser Leu Arg Ser Thr Val Gln Thr Arg
1 5 10 15
Lys Phe Thr Pro Phe Phe Leu Ala Ser Cys Ile Glu Lys Asp Pro Glu
20 25 30
Cys Leu Ser Glu Cys Arg His Leu Ile Leu Ser Met Trp Leu Ser Ser
35 40 45
Leu Val Ala Arg Val Ser Met Leu Lys Phe Gln His Arg Leu Thr Glu
50 55 60
Ala Leu Leu Asn Leu Asp Thr Met Asn Pro Leu Leu His Asn Leu Pro
65 70 75 80
Phe Ser Lys Asp Arg Gln Asn Asp Arg Tyr Ser Ile Ser Leu Asp Asp
85 90 95
Leu Gly Gln Arg Arg Leu Ser Leu Leu Ser Ser Leu Leu Ser Asn Met
100 105 110
Arg Ala His Val Gln Gly Leu Glu Asp Thr Glu Ser Arg Glu Leu Ser
115 120 125
Ser Thr Arg Arg Asp Tyr Arg Glu Leu Ile Gln Arg Met Met Ala Ser
130 135 140
Met Lys Ala Asn Tyr Gln Glu Leu Gly Ser Gly Gly Ala Ser Ala Gln
145 150 155 160

```
Gly Ala Tyr Val Asp Phe Val His Arg Ile Val Gly Phe Leu Gln Gln
                165                 170                 175
Tyr Ser Arg Asp Ile Cys Pro Ile Asp Pro Phe Phe Thr Asp Pro Thr
            180                 185                 190
Ser Phe Pro Leu Pro Ser Ala Asp Pro Thr Tyr Ile Val Ala Arg Leu
        195                 200                 205
Lys Ser Tyr Glu Pro Lys Leu Cys Ser Glu Lys Val Val Lys Thr Leu
    210                 215                 220
Ile Val Phe Val Gln Gly Val Ser Glu Arg Ala Ala Ile Asp Gly Gln
225                 230                 235                 240
Gln Val Tyr Leu Val Asp Gln Leu His Thr Ser Met Ala Asp Ile Tyr
                245                 250                 255
Glu Thr Gly Asp Pro Cys Lys Pro Thr Leu Arg Ala Val Leu Leu Gln
            260                 265                 270
Cys Val Phe Ser Ala Tyr Ile Glu Cys Ala Phe Ser Asn Pro Ala Ala
        275                 280                 285
Trp Leu Leu Ser Arg Pro Ile Ile Gln Thr Val Ser Leu Val Phe Arg
    290                 295                 300
Asp Leu Leu Phe Phe Met Asp Ile Thr Asp Ala Met Cys Arg Ser Ser
305                 310                 315                 320
Val Leu Ala Ser Leu Gly Ala Val Phe Arg Ser Ser Tyr Gln Ala Phe
                325                 330                 335
Gln Tyr Ile Thr Gly Tyr Pro Leu Met Pro Thr Asp Ser Thr Val Ile
            340                 345                 350
Ala Thr Leu Thr Asn Ser Val Glu Met Val Thr Ser Ala Ile Pro Val
        355                 360                 365
Val Glu Tyr Phe Asp Pro
    370
```

<210> 23939
<211> 118
<212> PRT
<213> A.fumigatus

```
<400> 23939
Thr Gly Gln Arg Asp Ala Leu Thr Ser His Tyr Ser Arg Val Arg Thr
1               5                   10                  15
Ala Ala Leu Glu His Cys Val Lys Arg Gln Pro Asn Gln Ser Gln Glu
            20                  25                  30
Lys Thr Arg Arg Ala Leu Ala Asn Ile Thr Met Leu Leu Met Gln Lys
        35                  40                  45
Tyr Leu Lys Pro Asp Gly Val Val Gly Ile Asp Asn Thr Arg Trp Gln
    50                  55                  60
Ala Asp Pro Ile Leu Phe Leu Ser Ala Thr Gln Ser Val Ser Thr Val
65                  70                  75                  80
Gln Glu Leu Thr Lys Val Ser Gln Ala Phe Tyr Ala Arg Ser Glu Tyr
                85                  90                  95
Ser Gln Tyr Pro Thr Asp Leu Pro Pro Pro Leu Ile Tyr Gln Thr Pro
            100                 105                 110
Leu Val Cys Thr Ala Pro
        115
```

<210> 23940
<211> 64
<212> PRT
<213> A.fumigatus

<400> 23940
Lys Thr Pro Phe Thr Phe Lys Leu Gly Lys Gly Glu Val Ile Lys Gly
1 5 10 15
Trp Asp Ile Gly Ile Ala Gly Met Ala Val Gly Gly Glu Arg Arg Ile
20 25 30
Thr Ile Pro Pro His Leu Ala Tyr Gly Lys Lys Ala Leu Pro Gly Ile
35 40 45
Pro Ala Asn Ser Lys Leu Ile Phe Asp Val Lys Leu Leu Glu Ile Lys
50 55 60

<210> 23941
<211> 94
<212> PRT
<213> A.fumigatus

<400> 23941
Asp Glu Ile Gly Ala Glu Glu Gly Leu Leu Lys Asn Tyr Leu Leu Tyr
1 5 10 15
Ile Tyr Leu Ala Glu Phe Ile Asp Leu Tyr Asn Asn Ser Glu Thr Leu
20 25 30
Leu Ile Glu Tyr Leu Val Tyr Leu Lys Leu Ser Val Leu Leu Gly Leu
35 40 45
Val Ile Ile Ile Thr Ile Thr Ile Leu Ala Leu Lys Ser Gly Lys Lys
50 55 60
Tyr Val Lys Ala Ser Asn Leu Tyr Leu Tyr Ser Ser Tyr Lys Val Gln
65 70 75 80
Val Arg Phe Gln Lys Ala Ile Ile Lys Tyr Leu Ser Lys Ile
85 90

<210> 23942
<211> 244
<212> PRT
<213> A.fumigatus

<400> 23942
Thr Val Cys Leu His Pro Asp Ser Gly Pro Val Met Val Thr Glu Ala
1 5 10 15
Leu Lys Pro Tyr Gly Ala Glu Asp Met Thr Leu His Phe Val Ser Asn
20 25 30
Ile Asp Gly Ser His Ile Ala Glu Ala Leu Lys His Ser Asp Pro Glu
35 40 45
Thr Thr Leu Phe Leu Ile Ala Ser Lys Thr Phe Thr Thr Ala Glu Thr
50 55 60
Thr Thr Asn Ala Asn Ser Ala Lys Lys Trp Phe Leu Glu Ser Ala Lys
65 70 75 80
Asp Glu Ala His Ile Ala Lys His Phe Val Ala Leu Ser Thr Asn Glu
85 90 95
Glu Glu Val Thr Lys Phe Gly Ile Asp Lys Lys Asn Met Phe Gly Phe
100 105 110
Ala Ser Trp Val Gly Gly Arg Tyr Ser Val Trp Ser Ala Ile Gly Leu
115 120 125
Ser Val Ala Leu Tyr Ile Gly Phe Asp Asn Phe His Gln Phe Leu Ala
130 135 140
Gly Ala His Ala Met Asp Lys His Phe Arg Glu Thr Pro Leu Glu Gln
145 150 155 160

```
Asn Ile Pro Val Leu Gly Gly Leu Leu Ser Val Trp Tyr Ser Asp Phe
                165                 170                 175
Phe Gly Ala Gln Thr His Leu Val Ala Pro Phe Asp Gln Tyr Leu His
            180                 185                 190
Arg Phe Pro Ala Tyr Leu Gln Gln Leu Ser Met Glu Ser Asn Gly Lys
        195                 200                 205
Gly Ile Thr Arg Thr Arg Arg Ile Pro Ser Ser Thr Pro Thr Gly Pro
    210                 215                 220
Ile Leu Phe Pro Val Ser Leu Ala Thr Thr Ala Asn Thr Val Phe Phe
225                 230                 235                 240
Ser Trp Cys Thr
```

<210> 23943
<211> 127
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23943

```
Glu Val Gln Ala Val Pro Leu Pro Thr Pro Val Asp Asn Xaa Glu Ile
1               5                   10                  15
Phe Phe Asp Phe Ser Lys Asn Phe Leu Xaa Glu Glu Thr Leu Ala Phe
            20                  25                  30
Leu Val Lys Leu Ala Arg Glu Ala Gly Val Glu Glu Leu Arg Asp Ala
        35                  40                  45
Met Phe Lys Gly Asp Pro Ile Asn Phe Thr Glu Asp Arg Ala Val Tyr
    50                  55                  60
His Val Ala Leu Arg Asn Val Thr Asn Glu Pro Met Gln Val Asn Gly
65                  70                  75                  80
Lys Ser Val Val Glu Asp Val Asn Ser Val Leu Glu His Met Lys Glu
                85                  90                  95
Phe Thr Glu Gln Val Arg Ser Gly Glu Trp Lys Gly Tyr Thr Gly Lys
            100                 105                 110
Lys Ile Thr Thr Ile Ile Asn Ile Gly Ile Gly Gly Ser Asp Leu
        115                 120                 125
```

<210> 23944
<211> 213
<212> PRT
<213> A.fumigatus

<400> 23944

```
Arg Tyr Ser Pro Gly Ala Gly Asp Ala Phe Ala Val Ala Leu His Gly
1               5                   10                  15
Glu Leu Leu Gln Val Gly Arg Glu Ala Met Gln Val Leu Val Glu Arg
            20                  25                  30
Cys Tyr Glu Val Gly Leu Gly Ala Glu Glu Val Ala Val Pro Asp Ala
        35                  40                  45
Glu Gln Thr Thr Glu Asn Arg Asn Val Leu Leu Glu Gly Arg Leu Ala
    50                  55                  60
Glu Val Leu Ile His Gly Val Ser Thr Ser Lys Glu Leu Val Glu Val
```

```
65                  70                  75                  80
Val Glu Ala Asp Val Glu Gly Asn Arg Glu Thr Asn Gly Ala Pro His
                85                  90                  95
Gly Ile Ala Thr Ala Asp Pro Gly Arg Glu Ala Glu His Val Leu Leu
            100                 105                 110
Val Asn Thr Lys Leu Gly Asp Leu Leu Leu Val Gly Gly Glu Ser Asp
        115                 120                 125
Lys Val Leu Ser Asn Val Gly Phe Ile Leu Gly Arg Phe Lys Glu Pro
    130                 135                 140
Leu Leu Arg Gly Val Cys Val Gly Gly Gly Leu Cys Ser Gly Glu Cys
145                 150                 155                 160
Leu Gly Ser Asn Gln Glu Lys Gly Gly Leu Gly Val Gly Val Leu Glu
                165                 170                 175
Ser Phe Gly Asn Val Ala Ala Ile Asn Val Gly Asp Lys Met Lys Gly
            180                 185                 190
His Val Leu Gly Thr Ile Trp Leu Glu Arg Leu Gly His His Asp Arg
        195                 200                 205
Ala Ala Ile Gly Val
    210
```

<210> 23945
<211> 143
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (106),(118),(133)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23945

```
Val Ala Asp Leu Gln Ile Arg Thr Thr Asp Thr Asn Val Asp Asp Cys
1               5                   10                  15
Arg Asn Leu Leu Ala Cys Val Thr Leu Pro Phe Ala Ala Ser Asn Leu
            20                  25                  30
Leu Arg Glu Leu Leu His Val Leu Lys His Gly Val Asp Ile Leu Asn
        35                  40                  45
Asp Ala Leu Ala Val Asp Leu His Gly Leu Val Gly Asp Ile Ala Gln
    50                  55                  60
Ser Asn Val Val Asn Arg Thr Val Leu Gly Glu Ile Asp Gly Ile Ala
65                  70                  75                  80
Leu Glu His Ser Ile Ala Glu Phe Leu Asn Thr Gly Phe Ser Gly Glu
                85                  90                  95
Leu Tyr Gln Glu Gly Lys Gly Leu Leu Xaa Glu Glu Ile Leu Gly Lys
            100                 105                 110
Ile Glu Lys Asp Leu Xaa Val Val Asn Arg Gly Gly Gln Arg Tyr Arg
        115                 120                 125
Leu Asn Phe Ser Xaa Arg Arg Arg Val Leu Leu Lys Ile Phe Leu
    130                 135                 140
```

<210> 23946
<211> 153
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (131),(140),(142)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23946
Leu Gly Ser Pro Ser Ala Ser Leu Phe Thr Ser Phe Gly Phe Asn Gln
1 5 10 15
Pro Asn Tyr Thr Ser Ser Gln Leu Met Val Ile Asp Phe Leu Phe Lys
20 25 30
Leu Gln Cys Ser Gly Gly Pro Pro Pro Cys Asn Ser Cys Lys Thr Ala
35 40 45
Asp Ala Glu Cys Val Phe Asp Glu Ser Leu Asp Leu Arg Arg Lys Val
50 55 60
Ala Ala Lys Arg Asn Leu Glu Glu Leu Ser Tyr Tyr Arg Ser Leu Leu
65 70 75 80
Tyr Ala Leu Leu Glu Ser Leu Arg Asn Ser Asp Glu Thr Glu Leu Asn
85 90 95
Glu Ile Leu Asp His Ile Arg Gly Ser Pro Ser Leu Asn Ser Ile Ala
100 105 110
Ala Ile Val Ala Lys Pro Thr Ile Asp Pro Ser Asp Val Ser Ser Glu
115 120 125
Asp Leu Xaa Gly Gly Ser Glu Glu Ser Ser Ser Xaa Ala Xaa Thr Ala
130 135 140
Glu Pro Val Tyr Leu Asp Ile His Ser
145 150

<210> 23947
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23),(25),(34)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23947
Glu Asp Ile Ala Arg Phe Leu His Gly Tyr Ser Arg Val Tyr Ile Glu
1 5 10 15
Val Tyr Gly Phe Arg Gly Xaa Ser Xaa Arg Ala Gly Leu Leu Arg Pro
20 25 30
Thr Xaa Glu Val Leu Gly Thr Asp Ile Ala Trp Val Tyr Gly Arg Leu
35 40 45
Ser His Asp Gly Arg Asn Ala Val Glu Arg Trp Gly Thr Ala Tyr Val
50 55 60
Ile Gln Asp Phe Val Gln Phe Gly Leu Val
65 70

<210> 23948
<211> 168
<212> PRT
<213> A.fumigatus

<400> 23948
Thr Glu Phe Asp Glu Val Ala Met Ala Ser Lys Ala Leu Asn Glu Leu
1 5 10 15

```
Tyr Gly Tyr Lys Leu Ser Asn Ser Thr Lys Thr Gly Ile Arg Leu Ser
            20                  25                  30
Phe Ser Lys Asn Pro Leu Gly Val Arg Ser Gly Gln Pro Gly Ser Met
        35                  40                  45
Asn Ala Ser Asn His Leu Ser Ala Gln Gly Ser Ile Pro Gly Gly Ser
    50                  55                  60
Ser Leu Gly Gly Ile His Ser His Met Phe Ser Thr Val Ser Gly Pro
65                  70                  75                  80
Pro Pro Gly Leu Ala Ala Pro Pro Gly Leu Ala Met Pro Met Ala Leu
                85                  90                  95
Arg Asn Asn Gly Ala Met His Leu Pro Gly Asn Pro His Ala Pro Met
            100                 105                 110
Pro Thr Asn Gly Ser Phe Asn Ser Asn Ser Gly Leu Gly Ile Arg Gly
        115                 120                 125
Asn Asn Met Asn Ser Leu Met Ser Pro Thr Pro Pro Leu Thr Gly Gly
    130                 135                 140
Val Gly Gly Thr Ser Thr Gly Ser Asn Val Gly Gly Phe Asn Ser Phe
145                 150                 155                 160
Tyr Pro Asp Tyr Met Leu Gly Arg
                165
```

<210> 23949
<211> 75
<212> PRT
<213> A.fumigatus

<400> 23949

```
Leu Gln Leu Leu Glu Asp Thr Gln Tyr Asn Leu Ile Gly Gly Leu Ala
1               5                   10                  15
Met Leu Asp Ile Gln Tyr Leu Gly Leu Ser Ala Gly Ile Tyr Asp Pro
            20                  25                  30
Asn Asn Trp Arg Ile Cys Gly Gln Ser Thr His Cys Gln Ser Ile Asn
        35                  40                  45
Ala Gly Val Leu Pro Gln Met Tyr Ala Thr Phe Val Ala Met Ala Thr
    50                  55                  60
Ile Ala Arg Cys Ser Trp Val Ser Ala Arg Ile
65                  70                  75
```

<210> 23950
<211> 385
<212> PRT
<213> A.fumigatus

<400> 23950

```
Thr Val Leu Gly Lys Glu Gly Tyr Phe Ala His Pro Ser Thr Gly Gly
1               5                   10                  15
Ser Asn Ser Gly Arg Asn Pro Gly Thr Pro Ser Asp Gly Ser His Gly
            20                  25                  30
His Lys Gly Gly Val His Leu Arg Gln Asn Pro Ser Ile Asp Gly Leu
        35                  40                  45
Thr Met Gly Ala Leu Pro Ala Asn Ser Pro Val Ile Arg Val Ile Tyr
    50                  55                  60
Thr Gly Gly Gln Thr Lys Val Leu Asp Ile Lys His Cys Lys Thr Ala
65                  70                  75                  80
Asp Glu Ile Ile Leu Cys Val Leu Lys Lys Leu Gln Leu Pro Glu His
                85                  90                  95
```

```
Gln Tyr Arg Asn Tyr Cys Phe Tyr Val Leu Asp Gly Leu Glu Pro Asp
            100                 105                 110
Pro Ser Asn Cys Arg Arg Leu Thr Asp Gln Glu Leu Met Glu Ile Cys
        115                 120                 125
Glu Gly Ser Ser Arg Ser Glu Arg Gly Arg Leu Ile Leu Arg Lys Ile
    130                 135                 140
His Ala Gly Glu Pro Asp Thr Asp Glu Leu Arg Arg Ala Ser Gln Leu
145                 150                 155                 160
Ala Leu Asp Glu Ser Gln Met Thr His Met Asn Ala Leu Ser Ser Ser
                165                 170                 175
Asn Val Arg Asn Gln Ile Lys Ile Gln Gln Leu Thr Gly Glu Pro Trp
            180                 185                 190
His His Ile Lys Gln Pro Leu Ser Pro Val Ser Ala Arg Gln Pro Gln
        195                 200                 205
Ala His Asn Asp His Asp Gln Ser Leu Gln Met Ser Thr Glu Arg Pro
    210                 215                 220
Ser Val Ala Lys Leu Arg Ser Phe Phe Gly Ala Arg Pro Pro Ser Glu
225                 230                 235                 240
Met Ile Ile His Glu Leu Thr Ser Tyr Phe Pro Gly His Gln Arg Glu
                245                 250                 255
Asp Ile Glu Lys Thr Met Arg Met Ser Ile Arg Arg Ser Gln Arg Leu
            260                 265                 270
Ser Arg Ala Ala Ser Arg Leu Ser Val Leu Ser Asn Thr Ser Tyr Ala
        275                 280                 285
Ser Ser Leu Arg Asp Ala Pro Pro Ile Pro Ser Ile Ala Asp Thr Trp
    290                 295                 300
Leu Asn Pro Gly Ala Pro Ser Thr Arg Ala Ser Arg Pro Leu Ser Val
305                 310                 315                 320
Ser Arg Phe Asn Leu Pro Gln Thr Ser Tyr Arg Asp Ser Ile Ala Ser
                325                 330                 335
Ser Ser Leu Gln Pro Leu Gln Glu Glu Ser Pro Ile Glu Pro Asn Arg
            340                 345                 350
Lys Ser Tyr Val Ser Phe Asp Ser Gly Ser Asp Asp Pro Ser Asn Ser
        355                 360                 365
Arg Gln Ser Leu Leu Asp Val Phe Thr Lys Gly Ala Gly His Arg Gln
    370                 375                 380
Ala
385
```

<210> 23951
<211> 149
<212> PRT
<213> A.fumigatus

<400> 23951

```
Val Ser Thr Phe Ile Lys Arg Arg Asp Glu Ile Lys Thr Gln Tyr Ala
1               5                   10                  15
Arg Arg Tyr Asn Tyr Ser Arg Ala Gln Cys Glu Asp Pro Lys Val Ile
            20                  25                  30
Lys Gly Trp Phe Asn Cys Leu Gln Gln Ile Gln Met Gln Tyr Gly Ile
        35                  40                  45
Ser Tyr Glu Asp Ile Tyr Asn Phe Asp Glu Thr Gly Phe Ala Met Gly
    50                  55                  60
Leu Ile Ala Thr Thr Lys Val Val Thr Arg Ala Asn Met Pro Gly Lys
65                  70                  75                  80
Pro His Leu Ile Gln Pro Gly Asn Arg Glu Trp Val Thr Thr Ile Glu
```

```
                85                  90                  95
Cys Ile Asn Thr Thr Gly Trp Val Leu Pro Ser Cys Ile Ile Phe Lys
            100                 105                 110
Gly Lys Val His Ile Glu Gly Trp Tyr Gln Asp Gln Ala Leu Ser Pro
        115                 120                 125
Asp Trp Arg Ile Glu Val Ser Gln Asn Gly Trp Thr Thr Asp Glu Ile
    130                 135                 140
Gly Leu Arg Trp Leu
145
```

<210> 23952
<211> 255
<212> PRT
<213> A.fumigatus

<400> 23952

```
Val Ser Thr Cys Phe Pro Ser Asp Leu Val Val Leu Cys Ile Leu Thr
1               5                   10                  15
Glu Asp Arg Cys Cys His Arg Thr Phe Ala Phe Val Val Gly Phe Ser
            20                  25                  30
Thr Phe Leu Thr Asn Cys Ile Asp Tyr His Lys Val Arg Gly Ser Lys
        35                  40                  45
Ser Leu Asn Asp Ile Leu Ile Lys Gln Cys Thr Thr Lys Met Ser Leu
    50                  55                  60
Ser Ser Thr Phe Leu Leu Trp Leu Leu Thr Leu Phe Trp Ile Gly Lys
65                  70                  75                  80
Ala Phe Gln Cys Leu Leu Asp Ile Thr Lys Leu Lys His Met His Asp
                85                  90                  95
Phe Tyr Tyr Tyr Leu Leu Gly Val Ser Asp Thr Asp Ile Gln Thr Ile
            100                 105                 110
Ser Trp Gln Glu Ile Val Ser Arg Leu Met Thr Ile Arg Asp Ala Asn
        115                 120                 125
Pro Ala Thr Ala Gly Ala Val Ser Ala Arg His Arg Lys Phe Met Gly
    130                 135                 140
Ser Gln Ser Lys Gln Arg Met Asp Ala His Asp Ile Ala Asn Arg Leu
145                 150                 155                 160
Met Arg Lys Glu Asn Tyr Leu Ile Ala Leu Ile Asn Lys Asp Ile Leu
                165                 170                 175
Asp Leu Thr Leu Pro Ile Pro Phe Leu Arg Asn Lys Gln Leu Phe Ser
            180                 185                 190
Arg Thr Leu Glu Trp Asn Ile Asn Leu Cys Ile Met Asp Tyr Val Phe
        195                 200                 205
Asn Glu Gln Gly Gln Val Arg Thr Leu Phe Leu Lys Asp Thr His Arg
    210                 215                 220
Lys Ala Leu Ser Glu Gly Leu Arg Arg Arg Phe Ile Phe Ala Gly Ile
225                 230                 235                 240
Met Asn Ile Phe Val Phe Thr His Gly Asp Gly Arg Ile Arg Ala
                245                 250                 255
```

<210> 23953
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23953

```
Thr Ser Ser Pro His Val Ala Asp Asn Thr Asp Asn Ser Leu Gly Leu
```

```
1               5                   10                  15
Arg Ser Val Ala Leu Glu Phe Leu Tyr Gly Leu Glu Thr Leu Gly Ala
            20                  25                  30
Ile Phe Ala Arg His Met Asn Met Thr Glu Arg Leu Phe Glu Ile Phe
        35                  40                  45
Lys Gln Ile Arg Leu His Asp Glu Ala Pro Val Pro Arg Tyr Val
    50                  55                  60
```

<210> 23954
<211> 252
<212> PRT
<213> A.fumigatus

<400> 23954

```
Gln Thr Leu Ile Gln Ala Ala Pro Glu Ala Asp Pro Glu Thr Gly Leu
1               5                   10                  15
Tyr Arg Leu Arg Asp Pro Ser Leu Ser Pro Thr Gly Ser Asp Thr Ser
            20                  25                  30
Thr Val Gly Lys Ser Gly Ala Lys Ser Gly Val Ser Pro Ser Pro Ser
        35                  40                  45
Thr His Ser Leu Ser Lys Met Ser Arg Pro Gly Leu Arg Arg Ser Arg
    50                  55                  60
Ser Ser Ala Ala Ser Leu Ser Thr Gln Ser Gln Ser Glu Gln Pro Ser
65                  70                  75                  80
Thr Ser Pro Pro Thr Ser Val Pro Glu Gly Arg Glu Ser Ser Ser Asn
                85                  90                  95
Ile Ser Ser Ala Pro Thr Gly Ile Ala Gly Glu Val Gly Gln Met Asp
            100                 105                 110
Ser His Asp Phe Gln Val Tyr Lys Ile Pro Leu Thr Leu Lys Asn Lys
        115                 120                 125
Glu Arg Trp Glu Asp Lys His Ser Pro Glu Ile Ile Val Lys Ala Lys
    130                 135                 140
Tyr Met Pro Tyr Arg Ala Leu Arg Gln Gln Phe Trp Arg Leu Met Leu
145                 150                 155                 160
Lys Gln Tyr Asp Ala Asp Asp Ser Gly Arg Ile Asp Lys Val Glu Leu
                165                 170                 175
Thr Thr Met Leu Asp Thr Leu Gly Ser Thr Leu Lys Glu Ser Thr Ile
            180                 185                 190
Asp Ser Phe Phe Arg Arg Phe Ser Ser Gly Asn Glu Pro Val Glu Thr
        195                 200                 205
Val Asp Leu Ser Phe Asp Gln Val Val Met Cys Leu Glu Asp Thr Leu
    210                 215                 220
Gln Ala Leu Gln Thr Ala Pro Glu Gly Pro Trp Pro Thr Phe Arg Phe
225                 230                 235                 240
Leu Thr Pro Ser Phe Ile Val Val Gln Lys Thr Asp
                245                 250
```

<210> 23955
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23955

```
Ala Thr Phe Ile Arg Leu Ser Thr His Pro Asp Arg Val Ile Leu Asp
1               5                   10                  15
Asn Ser Glu Val Val Leu Arg Leu Phe Thr His Glu Phe Phe Leu Glu
```

```
            20                  25                  30
Glu Asn Ser Val Asn Tyr Ser Glu Cys Phe Phe Pro Ser Pro Leu Leu
        35                  40                  45
Arg Thr Cys Phe Arg Met Leu Pro Leu Ser Asn Ile
    50                  55                  60
```

<210> 23956
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23956

```
Ser Leu Leu Ser Ile Phe Leu Leu Phe Phe Phe Ile Ser Leu Ile Thr
1               5                   10                  15
Ala Thr Leu Ile Leu Gly Leu Thr Leu Pro Val Ser Pro Arg Asn Gly
            20                  25                  30
Ala Asp Ala Met Ala Tyr Gly Leu His Gly Arg Cys Gly Ala Asp Gly
        35                  40                  45
Asn Leu Ala Gln Cys Cys Leu Ser Ile Ile Leu Ser Ala Leu Glu Pro
    50                  55                  60
Asn Arg Thr Ala Asn Gly Leu Ser
65                  70
```

<210> 23957
<211> 71
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (35)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23957

```
Phe Phe Arg Leu Trp Asn Pro Thr Glu Pro Pro Met Val Ser His Arg
1               5                   10                  15
Val Pro Phe Leu Gly Ser Thr Ile Ser Tyr Gly Ile Asp Pro Tyr Lys
            20                  25                  30
Phe Phe Xaa Ala Cys Arg Glu Lys Ala Ser Leu Lys Ile Val Val Arg
        35                  40                  45
His Ser Ile Leu Arg Ala Leu Leu Glu Tyr Cys Phe Leu Asn Arg Gln
    50                  55                  60
Tyr Gly Asp Ile Phe Pro Phe
65                  70
```

<210> 23958
<211> 177
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(7)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23958

```
Tyr Ala Cys Xaa Arg Ser Xaa Gly Gln Asp Val Leu Gly Tyr Ile Ser
1               5                  10                  15
Gly Ser Thr Arg Val Ala Asn Leu Ile Gly Ala Thr Leu Val Asp Ala
            20                  25                  30
Ala Lys Thr Ser Ala Lys Val Thr Met Gly Gly Ala Val Ile Val Gly
        35                  40                  45
Leu Leu Asn Met Ile Val Leu Ser Ser Leu Arg His Tyr Ile Pro Leu
    50                  55                  60
Leu Phe Thr Ser Asp Glu Glu Val Ile Lys Leu Val Ala Gly Val Leu
65                  70                  75                  80
Pro Leu Cys Ala Ala Phe Gln Leu Ser Asp Ala Leu Ala Ala Asn Cys
                85                  90                  95
Asn Gly Ile Met Arg Gly Ile Gly Arg Gln Glu Ile Gly Gly Tyr Val
            100                 105                 110
Gln Leu Phe Ser Tyr Tyr Ala Ile Ala Met Pro Ile Ser Phe Gly Thr
        115                 120                 125
Thr Phe Gly Leu Asn Trp Gly Leu Phe Gly Leu Trp Ser Gly Val Ala
    130                 135                 140
Ile Ala Leu Cys Leu Val Ser Ile Ile Glu Met Ile Phe Leu Thr Arg
145                 150                 155                 160
Ala Asp Trp Asn Arg Ala Val Thr Asp Ala Leu Arg Arg Asn Ala Met
                165                 170                 175
Ala
```

<210> 23959
<211> 163
<212> PRT
<213> A.fumigatus

<400> 23959

```
Gly Val Gly Asp Asp Leu Ala Pro Pro Gly Glu Asp Ile Ser Ala Lys
1               5                  10                  15
Ile Ala Tyr Trp Arg Tyr Gly Leu Asn Val Ala Gly Ser Trp Lys Arg
            20                  25                  30
Lys Leu Arg Gln Gln Val Pro Asp Ser Trp Thr Thr Val Ala Asp Asn
        35                  40                  45
Leu Ala Pro Pro Pro Gln Val Asp Gly Leu Tyr Ala Val Tyr Gln Gly
    50                  55                  60
Leu Asn Ser Ser Trp Trp Asn Asp Thr Ser Leu Thr Lys Asp Pro Arg
65                  70                  75                  80
Ser Leu Ile Met Leu Gln Gly Ile Leu Pro Asp Thr Pro Ala Val Asp
                85                  90                  95
Ala Lys Val Ala Leu Ala Thr Ala Gln Lys Val Trp Glu Val Trp Thr
            100                 105                 110
Asp Asp Lys Ile Arg Gly Trp Gly Arg Pro Val Leu Ala Ile Asn Ala
        115                 120                 125
Ala Arg Val Gly Ser Pro Glu Arg Ala Ile Gly His Leu Thr Ala Tyr
    130                 135                 140
Asp Tyr Trp Val Phe His Asp Ala Gly Met Cys Pro Ala Ser Ala Ile
145                 150                 155                 160
Ala Gln Ser
```

<210> 23960
<211> 86

<212> PRT
<213> A.fumigatus

<400> 23960
Tyr Tyr Pro Ile Gly Phe Ala Val Arg Gly Gly Asp Gly Lys Thr Leu
1 5 10 15
Leu Pro Cys Asp Leu Leu Ser Pro Leu Thr Asn Ser Thr Tyr Thr Gly
20 25 30
Gly Thr Pro Pro Pro Phe Met Pro Gly Asn Ala Gly Phe Leu Tyr Ala
35 40 45
Val Ala Tyr Met Ala Ala Gly Trp His Gly Ser His Gly Asp Ala Pro
50 55 60
Val Phe Pro Ser Asp Gly Ser Trp Ala Val Lys His Glu Gly Leu Arg
65 70 75 80
Lys Ala Pro Tyr Thr Leu
85

<210> 23961
<211> 149
<212> PRT
<213> A.fumigatus

<400> 23961
Pro Ala Asp Met Tyr Phe Gly Gly Glu Thr Gly Ile Gln Trp Val Ala
1 5 10 15
Glu Pro Gly Arg Phe Ile Val Ser Glu Ala Phe Tyr Leu Val Cys Arg
20 25 30
Val Leu Gly Thr Arg Lys Arg Leu Val Glu Tyr Val Asp Gly Pro Asn
35 40 45
Gln Asn His Tyr Phe His Ala Glu Leu Phe Val Asn Asp Gly Ile Tyr
50 55 60
Gln Asn Phe Leu Asn Ala Leu Val Glu Gly Tyr Ile Pro Thr Pro Ile
65 70 75 80
Pro Leu Asp Pro Ser Gly Arg Pro Tyr Gly Leu Pro Glu Arg Glu Asp
85 90 95
Lys Ser Tyr Ser Tyr Thr Ile Trp Gly Gln Thr Cys Cys Gly Ala Asp
100 105 110
Lys Ile Lys Ser Asn Cys Arg Leu Arg Cys Glu Met Gln Ala Gly Asp
115 120 125
Leu Leu Cys Phe Pro Ser Met Gly Gly Arg Ile Ser Val Asp Cys Met
130 135 140
His Met Ile Asp Cys
145

<210> 23962
<211> 171
<212> PRT
<213> A.fumigatus

<400> 23962
Thr Tyr Tyr Phe Pro Ser Pro Gly Val Leu Asn Lys Thr Gln Ser Val
1 5 10 15
Ala Val Ala Ser Gln Ser Leu Ser Tyr Tyr Leu Ala Gln Ser Arg Gly
20 25 30
Arg Ser Leu Val Ser Val Arg Ser Phe Gly Arg Val Ser Gly Val Ile
35 40 45

```
Ala Thr His Ser Ser Ala Gly Arg Ser Leu Lys Val Leu Thr Thr Pro
    50                  55                  60
Ile Phe Pro Pro Tyr Leu Pro Ser Arg Gly Leu Ser Arg Ser Pro Glu
65                  70                  75                  80
Pro Val Arg Met Pro Ala Ser Ala Val Ala Pro Asp Asp Thr Leu Gln
                85                  90                  95
Val Gly Ile Val Pro Glu Ala Thr Lys Ser Asn Asp Glu Pro Phe Gln
            100                 105                 110
Asp Phe Pro Ser Asp Pro Glu Ser Asp Asp Glu Val Pro Val Glu Ala
        115                 120                 125
Glu Glu Leu Gln Asp Ala Leu Ser Arg Pro Pro Pro Ala Asn Ser Ser
    130                 135                 140
Tyr Leu Pro Leu Pro Trp Arg Gly Arg Leu Gly Tyr Val Ser His Val
145                 150                 155                 160
Asp Ser Arg Ile Leu Ser Asp Ala Gly Pro Leu
                165                 170
```

<210> 23963
<211> 147
<212> PRT
<213> A.fumigatus

<400> 23963

```
Ala Cys Leu Asn Thr Tyr Leu Arg Asn Ala Asn Gln Pro Val Phe Cys
1               5                   10                  15
Ser Arg Thr Cys Arg Ile Ala Ser Ile Leu Glu Asn Arg His Pro Leu
            20                  25                  30
Ala Asp Pro Ser Gln Pro Pro His Pro Thr Lys Asn Arg Pro Asp Arg
        35                  40                  45
Asp Arg Thr Pro Asp Ile Ala Arg Gly Gln Ala Tyr Val Glu Ser Leu
    50                  55                  60
Gly Leu Ala Asn Ala Arg Asp Leu Ile Lys Ile Leu Arg Trp Asn Asp
65                  70                  75                  80
Lys Tyr Gly Ile Lys Phe Met Arg Leu Ser Ser Glu Met Phe Pro Phe
                85                  90                  95
Ala Ser His Lys Glu Tyr Gly Tyr Lys Leu Ala Ser Phe Ala Ser Glu
            100                 105                 110
Val Leu Ala Glu Val Gly Arg Val Val Ala Glu Leu Gly His Arg Val
        115                 120                 125
Ser Val His Pro Gly Gln Phe Thr Gln Leu Ser Ser Arg Arg Ala Gly
    130                 135                 140
Arg Asp Thr
145
```

<210> 23964
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23964

```
Pro Lys Tyr Val Ser Ser Ser Ile Lys Ile Glu Pro Asn Ser Arg Asn
1               5                   10                  15
Asp Glu Leu Cys Arg Arg Arg Ala Val Ser Val Asp Gly Asn Gly Asn
            20                  25                  30
Lys Lys Lys Thr Glu Gly Tyr Tyr Ser Ser Lys Ile Thr Gln Gly Pro
        35                  40                  45
```

```
Lys Arg Leu Gly Trp Trp Val Arg Arg Lys Glu Thr Arg Lys
    50                  55                  60

<210> 23965
<211> 200
<212> PRT
<213> A.fumigatus

<400> 23965
Ala Phe Phe Pro Gln Thr Gly Pro His Ser Leu Ala Pro Ala Gly Gln
1               5                  10                  15
Asn Ser Ala Glu Ile Glu Pro Arg Thr Val Ser Phe Leu Arg Phe Gln
            20                  25                  30
Gln Gln Pro Thr Gly Phe His Pro Ala Arg Ser Val Ser Arg Trp Leu
        35                  40                  45
Gly Trp His Ser Pro Trp Gly Tyr Gln Pro Gln Ser Gln Leu Gly Ile
    50                  55                  60
Gln Gln Leu Gln Gln Gln Gln Thr Gly Phe Gln Gly Leu Ala Pro His
65                  70                  75                  80
Pro Thr Gly Phe Glu Gly Tyr His Arg Gln Leu Gln Pro Gln Gln Pro
                85                  90                  95
Met Pro Thr Gly Ile Asn Ser Ile Leu Pro Pro Ala Leu Gln Pro Gln
            100                 105                 110
Pro Thr Gly Met Asn Gly Ala Ser Ser Met Pro Tyr Thr Val Thr Ser
        115                 120                 125
Pro Pro Pro Val Pro Pro Ile Pro Gln Gln Pro Thr Ala Ala Pro Leu
    130                 135                 140
Gln Pro Gln Lys Thr Gly Pro Pro Pro Pro Val Arg Phe Gly Val Lys
145                 150                 155                 160
His Asp Ala Pro Lys Lys Leu Thr Pro Gln Pro Thr Gly Leu Arg Ala
                165                 170                 175
Asn Leu Ala Gln Ala Ser Glu Phe Ser Pro Leu Pro Arg Arg Ala Ile
            180                 185                 190
Leu Pro Pro Phe Gly Gln Gly His
        195                 200

<210> 23966
<211> 170
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23966
Glu Leu Trp Arg Leu Thr Leu Ala His Ser Tyr Ser Leu Val Val Ala
1               5                  10                  15
Ala Phe Ala Phe His Trp Ile Pro Val Asn His Asp Leu Xaa Val Ile
            20                  25                  30
His Thr Gln Gln Met Asn Trp Ala Ser Ile Phe Leu Phe Val Thr Ile
        35                  40                  45
Ile Ile Tyr Val Ala Phe Phe Ala Ala Gly Val Ala Pro Ile Ala Trp
    50                  55                  60
Val Gly Thr Glu Phe Leu Pro Leu Glu Val Arg Ala Leu Gly Thr Met
```

```
65                  70                  75                  80
Met Asn Thr Val Thr Cys Trp Gly Cys Asn Ile Ile Ile Ser Ser Thr
                85                  90                  95
Phe Leu Ser Met Met Lys Ala Met Thr Pro Ser Gly Ala Phe Gly Phe
            100                 105                 110
Tyr Ala Gly Ile Cys Phe Val Gly Trp Val Phe Ile Ile Phe Cys Tyr
        115                 120                 125
Ala Glu Val His Asn Met Pro Leu Glu Ser Val Arg Glu Val Tyr Arg
    130                 135                 140
His Gly Phe Gly Val Lys Tyr Ala Lys Gln Leu Gln Arg Gln Arg Ile
145                 150                 155                 160
Leu Gln Glu Arg Gln Lys Pro Val Asp Ala
                165                 170
```

<210> 23967
<211> 82
<212> PRT
<213> A.fumigatus

<400> 23967

```
Glu Leu Val Gln Cys Gln Arg Thr Ala His Cys Ala Leu Cys Thr Val
1               5                   10                  15
His Asn Leu Arg Glu Met Glu Tyr Asn Gln Lys Asp Thr Gln Pro Arg
            20                  25                  30
Gly Leu Ser Asn Thr Val Asp Phe Thr Ile Asp Asn Ala Met Glu Lys
        35                  40                  45
Asp Gly Glu Asp Glu Phe Ala Val Ser Arg Leu Leu Ile Val Val Ala
    50                  55                  60
Gly Trp Arg Leu Asp Glu Gln Gly Asn Asp Leu His Ser Trp Gly Trp
65                  70                  75                  80
Ile Ile
```

<210> 23968
<211> 60
<212> PRT
<213> A.fumigatus

<400> 23968

```
Tyr Pro Leu Lys Phe Ile Val Ile Phe Leu Asp Leu Leu Pro Ala Val
1               5                   10                  15
Leu Val Ile Tyr Tyr Ile Leu Phe Ile Val Tyr Tyr Met Leu Phe Leu
            20                  25                  30
Arg Phe Asn Leu Gly Leu Ile Phe Gln Val Leu Ile Tyr Ile Ser Phe
        35                  40                  45
Tyr Pro Leu Phe Asn Leu Phe Lys Gly Leu Leu Ile
    50                  55                  60
```

<210> 23969
<211> 323
<212> PRT
<213> A.fumigatus

<400> 23969

```
Arg Pro Pro Gly Tyr Pro Arg Val Leu Gly Phe Arg Pro Ser Ala Ala
1               5                   10                  15
```

```
Phe Phe Gln Pro Leu Asn Gly Phe Val Leu Gly Gly Asn Ala Ser Asn
            20                  25                  30
Pro Phe Arg Pro Arg Ala Gly Ser Val Leu Ser Thr Pro Asn His Phe
        35                  40                  45
Gly Pro Ile Gly Val Gly Gly Gly Trp Gln Ser Lys Tyr Ile Val Ser
    50                  55                  60
Pro Ser Ala Leu Ser His Pro Thr Ala Val Leu Ser Ser Ile Arg Pro
65                  70                  75                  80
Lys Lys Lys Leu Lys Ala Leu His Trp Asp Lys Val Asp Thr Pro Gln
                85                  90                  95
Val Thr Val Trp Ala Ile Arg Asp Pro Thr Pro Gln Ala Lys Glu Gln
            100                 105                 110
Lys Tyr Ser Glu Leu Ala Lys Lys Gly Val Leu Asp Glu Val Glu Arg
        115                 120                 125
Leu Phe Met Ala Lys Glu Thr Lys Ile Phe Gly Ala Gly Ser Gly Ala
    130                 135                 140
Lys Gln Arg Lys Asp Lys Lys Gln Ile Ile Ser Asn Asp Leu Ser Lys
145                 150                 155                 160
Thr Phe Gln Ile Ala Leu Ala Lys Phe Ser Gln Tyr Pro Ile Asp Asp
                165                 170                 175
Val Val Arg Met Ile Ile His Cys Asp Pro Glu Ile Leu Asp Asn Met
            180                 185                 190
Val Val Met Asp Phe Leu Gln Arg Glu Asp Met Cys Thr Ile Pro Glu
        195                 200                 205
Asn Val Ser Lys Leu Met Ala Pro Tyr Ser Lys Asp Trp Thr Gly Pro
    210                 215                 220
Asp Ala Ala Ser Ser Glu Arg Glu Gln Asp Pro Thr Glu Leu Thr Arg
225                 230                 235                 240
Glu Asp Gln Ile Tyr Leu Tyr Thr Ala Phe Glu Leu Asn His Tyr Trp
                245                 250                 255
Lys Ala Arg Met Arg Ala Leu Ala Leu Thr Arg Ser Phe Glu Pro Asp
            260                 265                 270
Tyr Glu His Leu Ser Thr Lys Ile Arg Glu Val Val Arg Val Ser Glu
        275                 280                 285
Ser Leu Arg Asp Ser Val Ser Leu Met Asn Val Leu Gly Leu Ile Leu
    290                 295                 300
Asp Ile Gly Asn Phe Met Asn Gly Leu His His Gly Ala Gly Arg Ser
305                 310                 315                 320
Arg Ala Ile
```

<210> 23970
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23970

```
Cys Asn Asn Asn Leu Asp Asn Glu Leu Ser Tyr Thr Met Ala Arg Met
1               5                   10                  15
His Thr Cys Glu Ile Leu Pro Val Leu Phe Leu Ile Asn Arg Cys Ser
            20                  25                  30
Arg Phe Glu Arg Gln Glu Phe Asp Trp Gly Ser Arg Cys Gly Ala Tyr
        35                  40                  45
Ser Glu Leu Glu Asn Ala Arg Pro Tyr Ser Val Ile Asp Lys
    50                  55                  60
```

<210> 23971
<211> 69
<212> PRT
<213> A.fumigatus

<400> 23971
Arg Thr Ala Leu Val Gly Trp Gly Arg Thr Gln Thr Asp Pro Ala Phe
1 5 10 15
Gly Ala Thr Tyr Asp Ser Thr Ser Ile Lys Ala Lys Ser Val Asn Leu
20 25 30
Ile Ala Ser Val Arg Thr Val Met Arg Ser Lys Leu Leu Ser Ile Leu
35 40 45
Pro Ser Ile Phe Ala Cys Ser Val Ala Ser Leu Asp Arg Lys Leu Gly
50 55 60
Tyr Met Gly Leu Ser
65

<210> 23972
<211> 200
<212> PRT
<213> A.fumigatus

<400> 23972
Gln Ala Leu Leu Val Phe Pro Lys Ser Ala Arg Arg Phe Thr Ser Arg
1 5 10 15
Arg Ser Asn Leu Val Thr Gln Leu Ile Cys Trp Lys Tyr Arg Ser Ile
20 25 30
Leu Ser Gly Thr Gln Lys Ile Ala Ser Ser Gly Ile Met Arg Tyr Ser
35 40 45
Trp Leu Ile Gly Ala Val Cys Ala Ala Gly Ala Leu Ala Lys Pro Val
50 55 60
Asp Lys Arg Ser Tyr Val Thr Asp Trp Thr Ile Val Thr Val Thr Glu
65 70 75 80
Thr Ile Thr Leu Pro Tyr Gln Pro Pro Pro Thr Ser Thr Pro Ala Tyr
85 90 95
Ser Pro Ile Gln Ala Val Gln Leu Thr Gln Thr Val Thr Thr Val Asp
100 105 110
Pro Ala Pro Ala Pro Ala Pro Val Glu Pro Glu Thr Ser Ser Ala Ser
115 120 125
Pro Ile Pro Thr Thr Glu Ala Val Asn Thr Ala Pro Val Gly Val Val
130 135 140
Glu Glu Leu Pro Gly Ala Ala Ala Trp Ala Ser Ala Trp Thr Ser Ala
145 150 155 160
Trp Thr Ser Ala Trp Thr Ser Ala Trp Thr Ser Ser Ala Pro Asp Ala
165 170 175
Ala Gln Pro Thr Thr Leu Ala Thr Ser Thr Ser Thr Thr Ala Pro Ala
180 185 190
Ser Val Pro Thr Ala Ala Gly Ser
195 200

<210> 23973
<211> 159
<212> PRT
<213> A.fumigatus

<400> 23973

```
Pro His Ser Thr Lys Leu Ile Phe Ser Ser Asp Phe Ser Val Pro Gly
1               5                  10                  15
Lys Ser Asn Ser Phe Gly Tyr Val Pro Ser Lys Ala Asn Tyr Ile Arg
            20                  25                  30
Pro Gly Lys Arg Pro Leu Ser Ser Ile Thr Pro Ala Ile Val Thr Arg
        35                  40                  45
Pro Asp Gly Lys Leu Phe Phe Leu Ala Gly Ser Ala Gly Gly Ser Arg
    50                  55                  60
Ile Ile Thr Ala Thr Val Gln Asn Ile Ile Arg Val Ile Asp Gln Gly
65                  70                  75                  80
Leu Thr Ala Ala Gln Ala Leu Ala Gln Pro Arg Leu His Asp Gln Leu
                85                  90                  95
Ile Pro Asn Gln Val Ser Phe Glu Tyr Thr Tyr Asp Asn Ser Thr Val
            100                 105                 110
Asp Phe Met Lys Ser Arg Gly His Asn Val Thr Trp Val Ala Pro Gly
        115                 120                 125
Gln Ser Thr Ala Gln Ala Ile Arg Val Leu Pro Asn Gly Thr Phe Asp
    130                 135                 140
Ala Ala Gly Glu Pro Arg Gln Leu Asp Ser Gly Gly Phe Ser Ile
145                 150                 155
```

<210> 23974
<211> 72
<212> PRT
<213> A.fumigatus

<400> 23974

```
Phe His Phe Pro Tyr Ile His Gly Tyr Lys Val Met Asn Val Asn Trp
1               5                  10                  15
Leu Asn Asn Glu Val Tyr Cys His Leu Asn Tyr Ile Tyr Ala Met Ile
            20                  25                  30
Arg Glu Ile Asp Leu His Ser Asn Asn Gln Ile Glu Lys Pro Pro Glu
        35                  40                  45
Ser Asn Cys Leu Gly Ser Pro Ala Ala Ser Asn Val Pro Phe Gly Arg
    50                  55                  60
Thr Arg Met Ala Cys Ala Val Leu
65                  70
```

<210> 23975
<211> 124
<212> PRT
<213> A.fumigatus

<400> 23975

```
Ser Ile Ala Ser Phe Asn Gly Asp Leu Ser Ser Leu Thr Ala Pro Pro
1               5                  10                  15
Phe Ile Leu Ser Gly Thr Ser Leu Thr Glu Tyr Ser Ala Tyr Trp Ala
            20                  25                  30
Glu His Pro Ser Leu Phe Val Ala Ala Ala Lys Glu Ala Asp Pro Glu
        35                  40                  45
Lys Arg Ala Leu Ala Val Leu Lys Trp Phe Leu Ser Thr Leu Arg Gln
    50                  55                  60
Gln Tyr Cys Ser Arg Ser Glu Lys Leu Gly Ser Glu Lys Lys Pro Leu
65                  70                  75                  80
Asn Pro Phe Leu Gly Glu Leu Phe Leu Gly Lys Trp Glu Thr Asp Pro
                85                  90                  95
```

```
Asp Ala Gly Glu Thr Thr Leu Ile Ser Glu Gln Val Arg Phe Val Phe
            100                 105                 110
Pro Trp Leu Ala Gln Arg Arg Pro Asp Thr Asp Pro
        115                 120
```

<210> 23976
<211> 169
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (114)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23976

```
Leu Gln Gly Tyr Asn Ala Gln Lys Ala Ser Phe Ser Asn Thr Ile Gln
1               5                   10                  15
Ile Lys Gln Ile Gly His Ala Leu Leu Thr Ile Thr Pro Pro Ser Ala
            20                  25                  30
Asp Lys Asn Asp Pro Ala Gln Lys Glu Arg Tyr Leu Ile Thr Leu Pro
        35                  40                  45
Tyr Leu His Val Glu Ser Leu Ile Tyr Gly Thr Pro Phe Met Glu Leu
    50                  55                  60
Glu Arg Ser Thr Met Ile Ala Ser Ser Thr Gly Tyr Ile Ala Lys Ile
65                  70                  75                  80
Asn Tyr Ser Arg Gln Gly Trp Leu Ser Gly Lys Lys Asn Thr Phe Asn
                85                  90                  95
Ala Val Leu Tyr His Glu Lys His Gly Glu Arg Lys Pro Leu Tyr Thr
            100                 105                 110
Ala Xaa Arg Gln Trp Ser Asp Thr Phe Leu Ile Lys Asp Ala Arg Thr
        115                 120                 125
Asn Lys Glu Asp Arg Pro Leu His Trp Gln Arg Leu Glu Asp His Pro
    130                 135                 140
Val Glu Pro Leu Pro Ser Gly Arg Thr Gly Ser Ile Gly Glu Ala Gly
145                 150                 155                 160
Lys Leu Gly Ala Lys Ser Leu Ser Pro
                165
```

<210> 23977
<211> 67
<212> PRT
<213> A.fumigatus

<400> 23977

```
Gly Ser Ser Ile Tyr His Ser Ser Glu Ala Gly Ile Phe Val Asn Ser
1               5                   10                  15
Ile Ala Ser Ile Tyr Arg Gly Cys Lys Ile Pro Tyr Lys Phe Ala Lys
            20                  25                  30
Leu Phe Pro Arg Pro Ile Val Asn Ser Ile Pro Asp Leu Val Pro Ser
        35                  40                  45
Asn Val Ser Ile Asp Lys Lys Ser Leu Val Tyr Trp Cys Arg Ser Arg
    50                  55                  60
Lys Cys Gln
65
```

<210> 23978
<211> 147
<212> PRT
<213> A.fumigatus

<400> 23978
Gln Arg Cys Gln Pro Leu Lys Asn Asp Arg Trp Arg Ile Pro Lys Ser
1 5 10 15
Arg Tyr Ala Ser Asn Ser Thr Tyr Ile Ser Gln Asp Pro Arg Leu Arg
20 25 30
Lys Glu Tyr Leu Asp Pro Glu Leu Ile Val Asp Glu Asp Ile Lys Lys
35 40 45
Arg Leu Ile Glu Gly Gly Met Asp Asp Leu Leu Ala Thr His Phe Ala
50 55 60
His Leu Phe Ile Arg Asp Pro Leu Val Ile Phe Ser Glu Asp Leu Asp
65 70 75 80
Glu Leu Asp Leu Asn Lys Ala Asp His Phe Glu Asn Leu Gln Ser Thr
85 90 95
Asn Trp Gln His Met Arg Phe Lys Pro Pro Pro Pro Asp Lys Ala Asp
100 105 110
Ile Gly Trp Arg Val Glu Phe Arg Ser Met Glu Ile Gln Met Thr Asp
115 120 125
Phe Glu Asn Pro Ala Phe Ser Ile Leu His Gln Arg Leu Glu Gly Ser
130 135 140
Thr Met Val
145

<210> 23979
<211> 178
<212> PRT
<213> A.fumigatus

<400> 23979
Arg Gly Ser Ala Ala Ser Val Glu Lys Thr Asp Glu Gly Ala Asn Pro
1 5 10 15
His Ile Arg Phe Pro Thr Leu Ala Ala Asn Ile Arg Ser Arg Arg Gly
20 25 30
Arg Lys Val Glu Leu Asn Val Pro Ile Phe Val Asp Lys Asn Thr Pro
35 40 45
Val Pro Phe Lys Asp Pro Thr Val Asp Tyr Asp Leu His Asn Trp Pro
50 55 60
Glu Asp Asp Asp Val Arg Asn Gly Ala Ala Lys Glu Gly His Val Tyr
65 70 75 80
Met Asp Ala Met Ala Phe Gly Met Gly Ser Cys Cys Leu Gln Ile Thr
85 90 95
Phe Gln Ala Lys Asn Ile Thr Glu Gly Arg Lys Leu Tyr Asp Gln Leu
100 105 110
Ser Pro Leu Gly Pro Ile Leu Leu Ala Leu Thr Ala Ala Thr Pro Ile
115 120 125
Tyr Lys Gly Phe Leu Val Asp Thr Asp Val Arg Trp Asn Gln Ile Gly
130 135 140
Asn Ala Val Asp Asp Arg Thr Arg Glu Glu Leu Gly Glu Leu Val Arg
145 150 155 160
Asn Leu Ala Ser Ser Val Tyr Arg Arg Asn Gly Ile Asn Lys Asp Ala
165 170 175
Ser Leu

<210> 23980
<211> 256
<212> PRT
<213> A.fumigatus

<400> 23980
Met Arg Phe Phe Gln Pro Leu Gly Val Lys Thr Asn Gln Ala Ser Leu
1 5 10 15
Thr Ala Phe Val Met Ser Arg Ser Ile Val Leu His Phe Ala Pro Ala
20 25 30
Ser Ile His Arg Leu Ser Cys Leu Asp Pro Phe Pro Leu Leu Leu Ile
35 40 45
Gly Met Ser Asn Arg Ala Pro Thr Phe Leu Arg Leu Val Gly Val Met
50 55 60
Thr Gly Leu Ala Gly Glu Gln Gly Arg Ser Phe Ser Ile Gly Tyr Arg
65 70 75 80
His Thr Ala Ile His Gly Tyr Gln His Tyr Trp Leu Thr Gly Ser Phe
85 90 95
Phe Ser Gln Leu Gln Glu Phe Phe Leu Ser Leu Leu Ser Ser Ala Thr
100 105 110
Thr Lys Arg Glu Ala Lys Ser Tyr Leu Ala Arg Leu Lys Ala Gln His
115 120 125
Pro Lys Ser Pro Asp Ala Asn Lys Pro Glu Pro Glu Lys Ser Ala Thr
130 135 140
Ala Pro Thr Leu Pro Ser Gly Val Asn Leu Gly Ser Phe Tyr Gly Ala
145 150 155 160
Ser Arg Ser Val Tyr Glu Ser Pro Val Phe Arg Gln Gly Pro Ser Pro
165 170 175
Ser Ala Pro Pro Ser Leu Glu Pro Val Glu Arg Leu His Leu Ala Leu
180 185 190
Val Arg Leu Ser Thr Pro Gln Ser Leu Asp Asp Asn Ile Ile Asp Gly
195 200 205
Val Ala Lys Thr Leu Ser Gln Leu Asn Arg Leu Gly Leu Thr Cys Cys
210 215 220
Val Val Val Asp Pro Gly Thr Glu Gly Val Ala Ser Ala Leu Arg Gln
225 230 235 240
Val Ala Ser Leu His His Gly Ala Gly Arg Ile Arg Gly Gly Ala Phe
245 250 255

<210> 23981
<211> 70
<212> PRT
<213> A.fumigatus

<400> 23981
Ala Arg Ser Thr Thr Ser Leu Leu Asn Ser Cys Arg Ser Leu Arg Thr
1 5 10 15
Thr Thr Ser Asn Ile Pro Gln Thr Asn Pro Leu Leu Leu Arg Pro Met
20 25 30
Leu Leu Leu Leu Asn Leu Pro Ser Ile Pro Ser Tyr Pro Lys Ala Leu
35 40 45
Ala Leu Leu Leu Leu Ser Leu Leu Asn Asn Pro Gly Ala Leu Leu Phe
50 55 60
Arg Gly Met Ser Ile Cys

65 70

<210> 23982
<211> 140
<212> PRT
<213> A.fumigatus

<400> 23982
Thr Thr Leu Phe Trp Leu Ser Leu Leu Ser Ser Ala Thr Leu Arg Ser
1 5 10 15
Thr Pro Lys Leu Gly Pro Glu Lys Leu Lys Glu Met Arg Ser Ile Ala
20 25 30
His Val Val Trp Ala Leu Thr Gly Phe Gly Ile Pro Ser Ala Met Ser
35 40 45
Leu Ser Ile Pro Ser Pro Gln Gln Ile Leu Lys Ser Trp Ser Gly Thr
50 55 60
Asn Asn Ile Cys Pro Leu Ala Pro Lys Val Glu Val Pro Glu Asp Gly
65 70 75 80
Leu Leu Ser Ala Leu Arg Tyr Val Gln Asn Glu Thr Ile Arg Leu Gln
85 90 95
Gln Val Asp Arg Leu Ser Arg Ala Val Gln Ile Pro Thr Thr Val Asn
100 105 110
Asp Tyr Met Thr Asp Pro Phe Asp Glu Gly Phe Ala Pro Phe Val Glu
115 120 125
Phe Gln Glu Leu Leu Glu Ser Leu Phe Pro Leu Met
130 135 140

<210> 23983
<211> 68
<212> PRT
<213> A.fumigatus

<400> 23983
Leu Glu Arg Asn Pro Ser Arg Gln Arg Arg Leu Ala Ala Thr Tyr Ala
1 5 10 15
Arg Val Thr Ile Ala Gly Gly Phe His Lys Ala Ile Lys Pro Ile Val
20 25 30
His Ala Ala Val Ile Val Ala Ser Asp Gln Arg Ala Thr Gly Trp Glu
35 40 45
Asn Thr Asn Gly Ile Val Leu Arg Ala Pro Val Val Ser Ala Thr Pro
50 55 60
Ser Arg Lys Ser
65

<210> 23984
<211> 217
<212> PRT
<213> A.fumigatus

<400> 23984
Ser Ala Arg Gln Thr Ser Pro Met Pro Arg Gln Arg Ser Lys Gly Arg
1 5 10 15
Ile Pro Cys Lys Ile Arg Arg Lys Lys Cys Asp Glu Arg Lys Pro Thr
20 25 30
Cys Val Ala Cys Val Arg Asn Val Leu Leu Cys Ala Trp Asp Ser Glu
35 40 45

```
Ser Pro Pro Ser Gln Pro His Asn Ser Ser Ser Arg Gly Leu Lys Ala
    50                  55                  60
Lys Ser Pro Arg Leu Gly Arg His Gln Leu Ala Pro Lys Arg Met Ser
65                  70                  75                  80
Ser Asp Leu Ala Leu Ser Ala Ala Pro Asn Leu Ile His Pro Gln Leu
                85                  90                  95
Ala His Pro Lys Thr Asn Phe Leu Tyr Ser Phe Phe Tyr Ala Arg Ala
            100                 105                 110
Ala Gln Thr Leu Ser Ile Arg Asp Arg Glu Gly Asn Pro Phe Val His
        115                 120                 125
Val Leu Met Pro Met Ala Ala Thr Ser Asp Ile Val Phe Gln Ala Met
    130                 135                 140
Leu Ala Phe Ser Gly Val Val Tyr Glu Gln Gln His Ser Ser Asn Leu
145                 150                 155                 160
Ala Thr Thr Thr Trp Glu His Tyr Ala Gln Ala Ile Arg Ser Leu Lys
                165                 170                 175
His Ala Leu Thr Leu Tyr Val Asp His Gln Val Asp Arg Gly Ala Glu
            180                 185                 190
Leu Val Ala Thr Val Leu Leu Leu Leu Ala Leu Glu Val Gly Arg Ile
        195                 200                 205
Cys Pro Phe Gly Ser Gly Trp Ser Arg
    210                 215
```

<210> 23985
<211> 228
<212> PRT
<213> A.fumigatus

<400> 23985

```
Val Met Ile Ala Asp Asp Arg Val Val Ile Cys Gly Ser Ala Asn Leu
1               5                   10                  15
Asn Asp Arg Ser Gln Leu Gly Asp His Asp Ser Glu Ile Ala Val Ile
            20                  25                  30
Ile Glu Asp Tyr Thr Pro Val Gln Ser Thr Met Asn Gly Lys Pro Trp
        35                  40                  45
Thr Ala Ser Arg Phe Ala Ala Ser Leu Arg Arg Gln Leu Phe Arg Lys
    50                  55                  60
His Leu Gly Leu Leu Pro Thr Gln Asp Tyr Gln Arg Pro Asp Ala Asn
65                  70                  75                  80
Ser Glu Pro Val Gly Val Pro Asn Asp Phe Asp Phe Glu Ala Pro Glu
                85                  90                  95
Ser Gln Ile Val Ala Asp Pro Leu Ala Asp Thr Leu Gln Ser Leu Trp
            100                 105                 110
Asn Thr Arg Ala Arg Thr Asn Thr Glu Phe Phe Arg Lys Val Phe His
        115                 120                 125
Ala Val Pro Asp Asp Thr Val Arg Asn Trp Ala Thr Tyr Arg Glu Phe
    130                 135                 140
Tyr Ser Tyr Tyr Phe Gln Asn Ala Asp Lys Ala Ser Tyr Gly Lys Asp
145                 150                 155                 160
Glu Lys Val Lys Pro Pro Arg Tyr Glu Tyr Gly His Val Val Arg Asp
                165                 170                 175
Asp Phe Pro Pro Gly Pro Glu Gly Val Arg Gln Val Lys Glu Leu Leu
            180                 185                 190
Ser Gln Val Lys Gly Thr Leu Val Glu Met Pro Leu Met Phe Leu Ile
        195                 200                 205
Glu Glu Asp Val Ala Lys Ser Gly Leu Ala Leu Asn Asp Leu Thr Glu
```

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```
    210                 215                 220
Pro Leu Tyr Thr
225

<210> 23986
<211> 62
<212> PRT
<213> A.fumigatus

<400> 23986
Cys Gly Pro Thr Tyr Cys Thr Val Tyr Lys Lys Ser Lys Thr Met Met
1               5                  10                  15
Phe Ala Met Ile Lys Asp Arg Pro Gln Met Glu Thr Ala Glu Met Lys
            20                  25                  30
Glu Val Leu Phe Thr Gln Leu Glu Ile Leu Glu Pro Asn Leu Pro Leu
        35                  40                  45
Leu Ser Glu Glu Asn Thr Arg Cys Arg Pro Leu Asp Ile Asp
    50                  55                  60

<210> 23987
<211> 303
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (256)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23987
Arg Cys Glu Tyr Trp Pro Leu Arg Lys Leu Ala Thr Ile Thr Asp Ser
1               5                  10                  15
Asp Ile Glu Arg Ile Leu Gln Ala Tyr Ser Ala Gly Lys Glu Ser Ala
            20                  25                  30
Ser Asp Met Asn Arg Thr Ala Leu Leu Ser Lys Lys Gly Lys Ile Val
        35                  40                  45
Leu Ala Gly Ser Gly Pro Gly His Pro Asp Leu Leu Thr Arg Ala Thr
    50                  55                  60
Tyr His Ala Ile Gln Asn Ala Asp Ile Ile Leu Ala Asp Lys Leu Val
65                  70                  75                  80
Pro Ala Pro Val Leu Asp Leu Ile Pro Arg Arg Thr Glu Val His Ile
                85                  90                  95
Ala Arg Lys Phe Pro Gly Asn Ala Asp Gln Ala Gln Glu Glu Phe Met
            100                 105                 110
Gln Met Gly Ile Glu Ala Leu Arg Gln Gly Arg Tyr Val Leu Arg Leu
        115                 120                 125
Lys Gln Gly Asp Pro Tyr Leu Tyr Gly Arg Gly Gly Glu Glu Phe Glu
    130                 135                 140
Tyr Phe Arg Gly Glu Gly Phe Thr Pro Leu Val Leu Pro Gly Ile Thr
145                 150                 155                 160
Ser Ala Leu Ser Ala Pro Leu Phe Ala Asp Ile Pro Ala Thr His Arg
                165                 170                 175
Gly Val Ser Asp Gln Val Leu Val Cys Thr Gly Thr Gly Arg Lys Gly
            180                 185                 190
Ala Ala Pro Glu Pro Pro Thr Tyr Val Pro Thr Gln Thr Val Val Phe
        195                 200                 205
```

```
Leu Met Ala Leu His Arg Leu Ser Ala Leu Val Glu Ser Leu Thr Thr
    210                 215                 220
Leu Pro Val Ala Asp Asp Gly Ser Pro Ser Glu Asn Ser Leu Ala Gln
225                 230                 235                 240
Gly Tyr Ser Met Pro Pro Arg Gly Thr Gly Leu Met Leu Arg Leu Xaa
                245                 250                 255
Gly Leu Phe Val Gln Leu Leu Lys Asn Phe Cys Phe Thr Phe Gly Ser
            260                 265                 270
Leu Arg Phe Ser Pro Leu Pro Gly Leu Leu Pro Gly Pro Glu Pro Leu
        275                 280                 285
Gly Leu Phe Leu Pro Arg Thr Glu Arg Pro Lys Leu Glu Leu Val
    290                 295                 300
```

<210> 23988
<211> 173
<212> PRT
<213> A.fumigatus

<400> 23988

```
Ser Met Gln Arg His Gln Glu Asp Asp Cys Leu Ser Arg Tyr Val Ser
1               5                   10                  15
Arg Arg Leu Trp Ser Cys Ala Phe Pro Ser Ser Ala Gly Ala Asp Gln
            20                  25                  30
Asn Leu Val Arg Asn Thr Thr Met Gly Ser Arg Asp Ile Arg Glu Gln
        35                  40                  45
Trp Gly Thr Glu Arg Ala Gly Asp Ser Gly Lys Asn Gln Gly Gly Lys
    50                  55                  60
Pro Phe Ala Ser Glu Val Leu Lys Phe Leu Ser Ser Ser Thr Ile Glu
65                  70                  75                  80
Ile Arg Ile Pro Leu Leu Gln Pro Glu Tyr Val Pro Pro Leu Thr Gln
                85                  90                  95
Gly Phe Asp Ser His Leu His Lys Leu Phe Leu Arg Leu Ile Arg Val
            100                 105                 110
Ser Gly Glu Phe Ser Arg Asn Met Asp Leu Gly Pro Ala Trp Tyr Gln
        115                 120                 125
Val Gln Asp Trp Ser Arg His Lys Leu Ile Arg Gln Tyr Asn Val Cys
    130                 135                 140
Ile Leu Asp Arg Met Ile Ser Cys Ala Ser Glu Gln Ile Gly Met Ala
145                 150                 155                 160
Arg Thr Arg Ala Ser Gln Asn Asn Leu Ser Leu Leu Arg
                165                 170
```

<210> 23989
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23989

```
Val Gly Gly Ser Gly Ala Ala Pro Phe Leu Pro Val Pro Val Gln Thr
1               5                   10                  15
Arg Thr Trp Ser Glu Thr Pro Arg Trp Val Ala Gly Ile Ser Ala Asn
            20                  25                  30
Asn Gly Ala Leu Ser Ala Leu Val Ile Pro Gly Arg Thr Lys Gly Val
        35                  40                  45
Asn Pro Ser Pro Arg Lys Tyr Ser Asn Ser Ser Pro Pro Arg Pro
    50                  55                  60
```

<210> 23990
<211> 73
<212> PRT
<213> A.fumigatus

<400> 23990
Ile Phe Ile Ile Thr Leu Glu Asp Leu Lys Ala Thr Leu Arg Ile Arg
1 5 10 15
Lys Ala Gln Lys Glu Asp Pro Thr Asn Leu Leu Pro Asn Lys Phe Lys
20 25 30
Asp Tyr Ala Asn Ile Phe Ser Pro Lys Lys Ala Lys Arg Leu Leu Leu
35 40 45
Tyr Tyr Leu Tyr Asn Tyr Asn Ile Lys Leu Leu Glu Gly Lys Thr Pro
50 55 60
Leu Phe Ser Pro Leu Tyr Thr Met Ser
65 70

<210> 23991
<211> 215
<212> PRT
<213> A.fumigatus

<400> 23991
Phe Asp Gln Arg Arg Pro Ser Ser Pro Val Val Lys Thr Val Ala Pro
1 5 10 15
Thr Val Phe Ile Tyr Pro Gly Val Tyr Glu Glu Gln Leu Val Leu Asn
20 25 30
Arg Ser Gly Thr Thr Ile Leu Ile Gly Tyr Ser Thr Ser Thr Phe Asp
35 40 45
Tyr Asn Ser Asn Gln Val Thr Ile Gln Tyr Asn Ala Ala Val Asp Thr
50 55 60
Gln Ala Asp Gln Ser Asn Ser Asp Ser Ala Thr Val Tyr Ala Thr Gly
65 70 75 80
Asn Tyr Phe Gln Ala Ile Asn Ile Asn Phe Val Asn Asp Phe Gly Thr
85 90 95
Thr Lys Asn Tyr Ala Ser Leu Gly Phe Ala Val Lys Ser Ser Lys Tyr
100 105 110
Ala Ser Leu Tyr Gly Cys Gln Val Lys Gly Asn Gln Asp Ala Leu Leu
115 120 125
Ile Asn Gly Tyr Phe Phe Ala Ser Asn Ser Tyr Ile Glu Gly Asn Ile
130 135 140
Asp Met Ile Trp Gly Ser Gly Ala Gly Tyr Phe Leu Lys Ser Ala Ile
145 150 155 160
Ala Pro Asn Lys Asp Gly Ile Asn Leu Thr Ala His Lys Arg Ser Thr
165 170 175
Asn Thr Ser Ala Ala Gly Phe Val Phe Asp Gln Cys Ala Ile Val Pro
180 185 190
Ser Thr Gly Ala Gly Thr Met Ser Asp Ile Ser Leu Gly Arg Pro Trp
195 200 205
Asn Ser Leu Ala Leu Val Ala
210 215

<210> 23992
<211> 117
<212> PRT

<213> A.fumigatus

<400> 23992
Val Asp Ser Tyr Leu Asp Ser Cys Val Thr Ala Ala Gly Trp Glu Gln
1 5 10 15
Trp Ser Ser Ser Thr Pro Asn Thr Asp Gly Leu Val Phe Gly Glu Tyr
20 25 30
Gly Asn Tyr Gly Pro Gly Ala Ser Thr Ala Gln Arg Ala Ser Phe Ala
35 40 45
Thr Gln Leu Asp Gly Ser Gly Val Ser Gln Phe Gln Leu Ser Ser Phe
50 55 60
Phe Ala Val Thr Ser Trp Ile Tyr Phe Thr His Val Ser Gly Thr Pro
65 70 75 80
Phe Val Pro Gly Asn Ile Ile Ser Thr Ser Val Pro Val Gln Ser Ala
85 90 95
Thr Pro Thr Ser Ser Thr Asp Gly Ser Thr Leu Tyr Cys Asp Asn His
100 105 110
Asn Asp Arg Asp Arg
115

<210> 23993
<211> 89
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (63)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 23993
Ser Ala Gln Val Cys Leu Cys Ser Gln Arg Arg Arg Pro Arg Val Pro
1 5 10 15
Met Val Pro Pro Phe Thr Val Thr Thr Thr Met Thr Val Thr Asp Lys
20 25 30
Glu Thr Leu Tyr Thr Thr Leu Thr Ser Ala Asp Lys Thr Ser Thr Thr
35 40 45
Lys Tyr Thr Val Thr Glu Asp Val Gly Thr Thr Leu Ser Ala Xaa Gln
50 55 60
Ser Phe Lys Thr Thr Thr Gln Lys Asn Tyr Val Thr Asp Thr Val Ile
65 70 75 80
Val Thr Glu Pro Thr Val Asn Glu His
85

<210> 23994
<211> 87
<212> PRT
<213> A.fumigatus

<400> 23994
Leu Ser His Asp Val His Tyr Met His Ser Phe Thr Leu Lys Val Leu
1 5 10 15
Asp Leu Ile Leu Glu Trp Ile Tyr Gln Ala Met Ser Leu Thr Ser Met
20 25 30
Leu Pro Thr Ser Lys Leu Leu Ser Ser Leu Lys Lys Gly Asn Ser Lys
35 40 45

Leu Tyr Thr Lys Leu Pro Thr Lys Ile Asp Ser Met Ala Leu Ser Gln
50 55 60
Leu Ile Ala Ser Ile Thr Asn Asp Leu Ser Ala Phe Gly Lys Trp Ser
65 70 75 80
Gln Val Asn Met Tyr His Gly
85

<210> 23995
<211> 63
<212> PRT
<213> A.fumigatus

<400> 23995
Leu Leu Pro Ile Val Lys Glu Ala Gly Arg Lys Pro Pro Pro Phe Pro
1 5 10 15
Phe Ile Phe Phe Lys Pro Asn Thr Cys Val His Asp His Gly Glu Pro
20 25 30
Val Val Ile Pro Arg Ile Ala Gln Asn Asp Gln Ala Asp Tyr Glu Gly
35 40 45
Glu Leu Val Cys Leu Ile Ala Phe Phe Leu Pro Ser Thr Ile Ser
50 55 60

<210> 23996
<211> 84
<212> PRT
<213> A.fumigatus

<400> 23996
Arg Leu Asp Gly Arg Ile Leu Arg Gly Glu Pro Ile Leu Pro Ala Glu
1 5 10 15
Ser Thr Ile Asp Leu Gly Phe Val Thr Asp Ala Asp Gln Leu Gln Ala
20 25 30
Arg Val Ile Gln Gly Gln Asp Ile Tyr Asn Thr Thr Gly Glu Thr Lys
35 40 45
Val Thr Asp Glu Ile Val Thr Val Lys Gln Ile Leu Ser Pro Leu Ala
50 55 60
Pro Ser Asp Val Pro Ile Ile Arg Cys Val Gly Leu Asn Tyr Ala Lys
65 70 75 80
His Ser Ala Leu

<210> 23997
<211> 78
<212> PRT
<213> A.fumigatus

<400> 23997
Pro Arg Arg Ala Arg Gly Asp Pro Ala Asp Arg Ala Glu Arg Pro Ser
1 5 10 15
Gly Leu Arg Gly Arg Ile Gly Leu Ser His Arg Val Leu Ser Ser Ile
20 25 30
His Asp Leu Leu Thr Arg Leu Gln Cys Leu Val Ile Gly Lys Asp Ala
35 40 45
Lys Asp Val Pro Val Glu Arg Ala Leu Glu Tyr Val Ala Ala Tyr Thr
50 55 60
Ala Ala Thr Thr Phe Phe Ser Pro Ala Gly Arg Asp Gln Arg

65 70 75

<210> 23998
<211> 122
<212> PRT
<213> A.fumigatus

<400> 23998
Leu Tyr Arg Leu Ala Gln Trp Ile Thr Asp Asp Lys Pro Arg Val Ile
1 5 10 15
Leu Ile Asp Arg Thr Trp Asp Phe Ile Gly Thr Glu Gly Thr Thr Thr
20 25 30
Gly Lys Cys Cys Ser Met Pro Ser Thr Thr Val Cys Ser Gly Gly Thr
35 40 45
Ser Lys Gly Gln Ala Trp Ile Gln Asp His Cys Asp Gly Gly Ser Trp
50 55 60
Val Ser Cys Lys Tyr Asp Asn Ala Ala Leu Thr Pro Leu Asp Val Gly
65 70 75 80
Ser Asn Lys Ser Ile Val Gly Val Gly Asn Lys Gly Val Ile Lys Gly
85 90 95
Lys Gly Leu Arg Val Arg Asn Gly Asn Lys Asn Val Ile Ile Gln Asn
100 105 110
Ile His Ile Thr Val Ser Leu Cys Ile Pro
115 120

<210> 23999
<211> 132
<212> PRT
<213> A.fumigatus

<400> 23999
Ser Lys Gln Asn Leu Asn Pro Gln Tyr Val Trp Gly Gly Asp Ala Ile
1 5 10 15
Thr Leu Asp Asn Ala Asp Lys Val Trp Ile Asp His Asn Lys Val Arg
20 25 30
Leu Arg Leu Pro Ala Pro Thr Ala Lys Met Thr Leu Thr Glu Thr Gly
35 40 45
Arg Ser Pro Ser Ser Ala Ala Asn Ser Ser Ser Ala Ala Gly Ala Lys
50 55 60
Arg Ala Thr Ser Pro Ser Pro Thr Thr Asn Ser Thr Ala Ala Pro Pro
65 70 75 80
Gly Pro Pro Ala Ala Met Ala Ser Thr Thr Gly Leu Tyr Ser Ser Ser
85 90 95
Ala Ser Arg Thr Thr Thr Pro Ser Lys Ala Thr Gly Cys Thr Thr Cys
100 105 110
Pro Ala Ala Pro Arg Thr Trp Glu Pro Thr Thr Pro Ser Arg Arg Ser
115 120 125
Ser Ser Thr Ala
130

<210> 24000
<211> 179
<212> PRT
<213> A.fumigatus

<400> 24000

```
Cys His His Pro Arg Gln Arg Gly Gln Gly Leu Asp Arg Pro Gln Gln
1               5                  10                  15
Gly Thr Ser Thr Ser Ser Cys Pro His Gly Lys Asp Asp Ser Asp Arg
            20                  25                  30
Asn Trp Gln Ile Ser Leu Ile Gly Arg Gln Phe Ile Val Ser Gly Trp
        35                  40                  45
Gly Lys Ala Gly His Val Thr Ile Ser Asn Asn Glu Phe Asp Gly Arg
    50                  55                  60
Thr Ser Trp Ser Ala Gly Cys Asn Gly Lys His Tyr Trp Thr Leu Leu
65                  70                  75                  80
Leu Leu Gly Glu Gln Asp Tyr Tyr Thr Phe Gln Gly Asn Trp Leu His
                85                  90                  95
Asp Val Ser Gly Arg Ala Pro His Met Gly Thr Asp His Thr Lys Ser
            100                 105                 110
Gln Ile Phe Phe His Gly Val Asn Asn Tyr Phe Gln Asn Val Gly Gly
        115                 120                 125
His Ala Phe Asp Val Asp Thr Asn Thr Trp Val Leu Leu Glu Gly Asn
    130                 135                 140
Tyr Phe Glu Asn Val Asn Thr Pro Leu Thr Asp Thr Ser Leu Arg Ala
145                 150                 155                 160
Gly Gly Lys Leu Tyr Thr Thr Ser Ser Ser Pro Arg Asp Trp Gln Val
                165                 170                 175
Arg Val Cys
```

Application/Control Number: 10/577,240
Art Unit: 1797

<210> 24001
<211> 199
<212> PRT
<213> A.fumigatus

<400> 24001

```
Gly Pro Cys Val Trp Ser Ser Thr Gln Phe Leu Pro Leu Phe Ser Asp
1               5                  10                  15
Met Phe Phe Ala Asp Lys Glu Arg Phe Ile Asp Ser Ile Glu Lys Asp
            20                  25                  30
Arg Leu Leu Thr Ile Ala Arg Ser Ala Phe Asn Ile Val Thr Val Phe
        35                  40                  45
Leu Ala Ser Pro Ala Leu Val Thr Pro Asn Leu Pro Met Phe Ile Tyr
    50                  55                  60
Thr Thr Ile Trp Tyr Gly Leu Leu Val Leu Ser Lys Leu Ser Leu Leu
65                  70                  75                  80
Ser Asp Thr Ala Thr Glu Ser Lys Val Val Tyr Asn Lys Asp Val Ser
                85                  90                  95
Asn Leu Gly Leu Ala Ala Met Gln Lys Met Glu Thr Met Ser Arg Gly
            100                 105                 110
Asp Asn Val Trp Asp Asn Cys Arg Ala Val Ile Gly Ser Met Ile Ser
        115                 120                 125
Trp Leu Glu Ser Ser Arg Gly Gln Pro Gln Ser Met Gln Ala Pro Gly
    130                 135                 140
Asn Thr Lys Asp Ala Gly Asp Ala His Met Leu Pro Gln Pro Thr Pro
145                 150                 155                 160
Glu Asp Ala Pro Arg Pro Thr Glu Ser Ala Ala Val Ala Glu Asp Trp
                165                 170                 175
Asp Ala Thr Val Arg Gln Gln Met Leu Gln Asp Leu Thr Trp Ile Gly
            180                 185                 190
Leu Pro Val Glu Gln Gln Leu
```

195

<210> 24002
<211> 226
<212> PRT
<213> A.fumigatus

<400> 24002
Ile Asn Ile Pro Lys Met Ile Arg Ala Cys Glu Glu Ala Asn Leu Trp
1 5 10 15
Pro Glu Leu Val Phe Leu Tyr Cys His Tyr Asp Glu Trp Asp Asn Ala
20 25 30
Ala Leu Ala Met Met Glu Arg Ala Ala Asp Ala Trp Glu His His Ser
35 40 45
Phe Lys Asp Ile Ile Val Lys Val Ala Asn Leu Glu Ile Tyr Tyr Arg
50 55 60
Ala Leu Asn Phe Tyr Leu Gln Glu Gln Pro Leu Leu Leu Thr Asp Leu
65 70 75 80
Leu Gln Val Leu Thr Pro Arg Ile Asp Val Asn Arg Val Val Arg Ile
85 90 95
Phe Gln Ser Ser Asp Asn Ile Pro Leu Ile Lys Pro Phe Leu Leu Asn
100 105 110
Val Gln Ser Gln Asn Lys Arg Ala Val Asn Asp Ala Ile Asn Asp Leu
115 120 125
Leu Ile Glu Glu Glu Asp Tyr Lys Thr Leu Arg Asp Ser Val Asp Asn
130 135 140
Tyr Asp Asn Phe Asp Ala Val Gln Leu Ala Gln Arg Leu Glu Lys His
145 150 155 160
Asp Leu Ile Phe Phe Arg Gln Ile Ala Ala Asn Ile Tyr Arg Asn Asn
165 170 175
Lys Arg Trp Glu Lys Ser Ile Ser Leu Ser Lys Gln Asp Lys Leu Tyr
180 185 190
Lys Asp Ala Ile Glu Thr Ala Ala Ile Ser Gly Lys Ser Asp Val Val
195 200 205
Glu Glu Leu Leu Arg Tyr Val Cys Leu Ser Leu Ile Asp Leu Phe Phe
210 215 220
Ser Pro
225

<210> 24003
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24003
Thr Arg Cys Ala Met Leu Thr Leu Gln Ser Thr Asn Ile Gly Asn Ala
1 5 10 15
Lys Leu Ala Gly Leu Gln Lys Asp Leu Asn Met Thr Asn Asp Gln Tyr
20 25 30
Asn Asp Ser Leu Thr Ile Phe Phe Ile Ser Tyr Ser Val Phe Glu Pro
35 40 45
Ile Thr Asn Val Leu Leu Lys Arg Trp Arg Pro Ser Arg Phe Ile Pro
50 55 60
Ala Ile Met Phe Gly Trp Val Asp Ala Thr Cys Thr Cys Ser Lys Phe
65 70 75 80
Glu Leu Met Glu Ser Arg Ala Tyr Ala

85

<210> 24004
<211> 117
<212> PRT
<213> A.fumigatus

<400> 24004
Trp Arg Cys Val Ala Ser Tyr Ser Ser Phe Ile Asp Gln Ala Pro Met
1 5 10 15
Pro Val Val Ile Arg Tyr Asp Ile Asn Asn Gln Gln Val Arg Trp Phe
20 25 30
Leu Gly Leu Thr Glu Ala Gly Leu Phe Pro Gly Val Gly Tyr Phe Leu
35 40 45
Ser Cys Trp Tyr Lys Arg Thr Glu Phe Gly Val Arg Met Ala Ile Phe
50 55 60
Phe Ser Ala Ala Ala Leu Ala Gly Ser Phe Gly Gly Leu Leu Ala Ala
65 70 75 80
Ala Ile Ala Gln Met Asp Gly Val Gly Gly Arg Pro Gly Trp Ser Trp
85 90 95
Ile Phe Ile Leu Glu Gly Leu Ala Thr Ile Val Asn Trp Arg Pro Val
100 105 110
Pro Leu Asp Ser Pro
115

<210> 24005
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24005
Leu Val Glu Thr Leu Leu Tyr Phe Ala Asp Phe Lys Leu Thr Ala Ser
1 5 10 15
Ala Gln Leu Pro Phe Lys Val Pro Thr Ala Ser Pro Leu Ala His Arg
20 25 30
Gln Gln Lys Ser Val Ser Gln Pro Arg Ala Ile Phe Leu Thr Arg Pro
35 40 45
Asn Cys Gln Gln Asn Arg Met Lys Gly Ser Leu Gln
50 55 60

<210> 24006
<211> 248
<212> PRT
<213> A.fumigatus

<400> 24006
Asp Ala Tyr Phe Leu Ile Arg Arg Leu Gly Asn Asp Leu Asn Met Cys
1 5 10 15
Gly Pro His Leu Leu Asn Arg Ile Ser Arg Phe Ile Leu Ile Trp Asn
20 25 30
Val Gly Ser Phe Ile Ile Thr Met Ile Val Leu Leu Ala Thr Asn Asp
35 40 45
His Lys Gln Pro Ala Ala Phe Val Phe Ser Glu Phe Gln Asn Phe Thr
50 55 60
Gly Trp Gly Pro Ala Met Ala Ala Ile Val Gly Ile Leu Gln Ser Cys
65 70 75 80

```
Phe Gly Met Cys Cys Tyr Asp Ala Pro Ala His Met Thr Glu Glu Met
                85                  90                  95
Lys Ser Ala Ser Lys Glu Ala Pro Lys Ser Ile Ile Leu Ser Val Val
            100                 105                 110
Leu Gly Ala Val Thr Gly Phe Ala Phe Leu Leu Thr Leu Cys Phe Cys
        115                 120                 125
Ile Gly Asp Ile Asn Glu Thr Ala Ser Thr Ser Thr Gly Val Pro Val
    130                 135                 140
Ile Gln Ile Phe Tyr Asp Ser Thr Gly Ser Lys Val Gly Ala Cys Phe
145                 150                 155                 160
Leu Ser Ser Met Ile Ala Val Ile Val Ile Val Ala Gly Asn Asn Leu
                165                 170                 175
Leu Ala Glu Gly Ser Arg Ser Val Tyr Ala Phe Ala Arg Asp His Gly
            180                 185                 190
Leu Pro Phe Ser Lys Val Phe Ala Lys Val Glu Ser Lys Arg Gln Val
        195                 200                 205
Pro Val Asn Ala Val Leu Leu Thr Leu Ala Val Gln Leu Ala Leu Asp
    210                 215                 220
Ala Ile Asp Phe Gly Thr Thr Thr Gly Phe Glu Thr Val Ile Ala Ile
225                 230                 235                 240
Ala Thr Glu Gly Phe Cys Met Ser
                245
```

<210> 24007
<211> 119
<212> PRT
<213> A.fumigatus

<400> 24007

```
Ser Ser Ile Asp Leu Ser Tyr Ala Met Ala Leu Phe Ser Arg Leu Leu
1               5                   10                  15
Gly Tyr Val Thr Gly Tyr Gln Arg Glu Met Lys Gly Pro Phe Ser Leu
            20                  25                  30
Pro Pro Trp Ile Ser Ile Thr Leu Asn Val Leu Gly Leu Leu Phe Leu
        35                  40                  45
Leu Phe Ala Ser Ile Thr Phe Asn Leu Pro Thr Gln Tyr Pro Val Asn
    50                  55                  60
Arg Asp Ser Met Asn Tyr Thr Ser Ala Ala Ile Gly Val Val Ala Leu
65                  70                  75                  80
Ile Ser Leu Val Thr Trp Phe Thr Thr Gly Gln Lys His Phe Thr Gly
                85                  90                  95
Pro Gly Gly Met Ser Val Leu His Gly Arg Glu Glu Val Ala Gln Ser
            100                 105                 110
Glu Ala Glu Val Glu Lys Lys
        115
```

<210> 24008
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24008

```
Gly Lys Ile Ala Leu Tyr Leu Asn Pro His His Gly Asp Pro Ser Met
1               5                   10                  15
Ile Asp Asn Gly Leu Arg Pro Glu Arg Leu Phe Phe Glu Ser Tyr Asn
            20                  25                  30
```

```
Phe His Asp Cys Ala Val Leu Asp Ile Glu Ser Val Asn Tyr Ser Val
        35                  40                  45
Gly Ala Leu Ala Leu Val Arg Glu Ala Ile Ser Thr Cys Pro Ser Phe
    50                  55                  60
Ala Gly Ile Ile Cys His Gly Leu Arg
65                  70
```

<210> 24009
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24009

```
Thr Ser Arg Tyr Trp Arg Pro Ser Ile Leu Trp Arg Cys Ser Pro Lys
1               5                   10                  15
Thr Leu Pro Thr Met Tyr Ala Leu Leu Arg Arg Trp Ala Lys Thr Leu
            20                  25                  30
Ala Tyr Val Leu His Thr Lys Ser Gly Gln Lys Tyr Gly Ser Tyr Leu
        35                  40                  45
Gln Ala Tyr Ile Val Arg Gln Phe Leu Leu Met Tyr Leu Asn His Cys
    50                  55                  60
Val Arg
65
```

<210> 24010
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24010

```
Gly Thr Asn Gly Leu Pro Val Val Pro Lys Thr Ala Glu Asn Phe Arg
1               5                   10                  15
Ala Leu Cys Thr Gly Glu Lys Gly Val Gly Lys Gln Gly Lys Pro Leu
            20                  25                  30
Ser Tyr Lys Gly Thr Thr Ser Val Leu Ser Leu Gln Val Arg Phe Arg
        35                  40                  45
Val Leu Arg Phe Glu Leu Arg Ile His Phe Pro Pro Cys Asp Gln Ala
    50                  55                  60
Val Tyr Asp Pro Gly Trp
65                  70
```

<210> 24011
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24011

```
Ser Ile Ala Lys Lys Gly Trp Ser Ser Pro Leu Arg Pro Ser Ile Pro
1               5                   10                  15
Gln Leu Phe Leu Thr Asn Phe Ser His Phe Leu Thr Gln His Phe His
            20                  25                  30
Ser Ala Thr Val Cys Leu Tyr Tyr Ser Leu Leu Ser Thr Phe Ile His
        35                  40                  45
Tyr Cys Thr Thr Ser Ser Ala Gln Ser Trp Leu Arg Leu Asn Val Arg
    50                  55                  60
Thr Ala Pro Ser Ser Val Gly Phe Trp Ala Ser Gly
```

65 70 75

<210> 24012
<211> 194
<212> PRT
<213> A.fumigatus

<400> 24012
Ala Thr Arg Val Arg Pro Pro Ser Cys Leu Phe Arg Cys Asp Ser Glu
1 5 10 15
Ser Tyr Gly Ser Ser Leu Gly Ser Ile Phe His Arg Val Ile Lys Gln
20 25 30
Phe Met Ile Gln Gly Gly Asp Phe Thr Asn Phe Asn Gly Thr Gly Gly
35 40 45
Glu Ser Ile Tyr Gly Glu Lys Phe Pro Asp Glu Asn Phe Glu Leu Lys
50 55 60
His Asp Arg Pro Phe Leu Leu Ser Met Ala Asn Ser Gly Pro Gly Thr
65 70 75 80
Asn Gly Ser Gln Phe Phe Ile Thr Thr Val Pro Thr Pro His Leu Asp
85 90 95
Gly Lys His Val Val Phe Gly Glu Val Ile Asn Gly Lys Ser Ile Val
100 105 110
Arg Lys Ile Glu Asn Met Pro Thr Gln Ala Asp Lys Pro Thr Thr Asp
115 120 125
Val Thr Ile Val Asp Cys Gly Glu Leu Ser Gly Glu Asp Tyr Glu Asn
130 135 140
Ala Thr Lys Gln Val Ala Asp Ala Thr Gly Asp Pro Tyr Glu Asp Tyr
145 150 155 160
Pro Asp Asp His Gln Gly Glu Glu Leu Asn Ala Gln Val Cys Phe Lys
165 170 175
Ile Ala Ser Glu Leu Ser Ser Pro Arg Gly Arg Arg Ser Ala Asn Gly
180 185 190
Trp Gly

<210> 24013
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24013
Arg Arg Met Val Leu Arg Cys Thr Arg Pro Asn Ser Phe Ala Phe Gly
1 5 10 15
Ile Asp Asp Gly Gln Pro Cys Phe Ala Gln Glu Val Met Ala Ile Leu
20 25 30
Gln Lys Glu Asn Ile Leu Val Thr Phe Phe Val Val Gly Ser Gly Leu
35 40 45
Arg Asp Glu Glu Thr Asn Phe Thr Gln Val Tyr Arg Glu Met Leu Arg
50 55 60
Arg Gly His Gln Ile Ala Leu His Ser Asn Thr His Arg Lys
65 70 75

<210> 24014
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24014
Pro Cys Pro Lys Leu Trp Leu Asn Met Pro Ala Lys Gly Ser Ala Ala
1 5 10 15
Arg Tyr Phe Arg Pro Pro Phe Gly Thr Ile Gly Ser Arg Thr Arg Gln
20 25 30
Arg Leu Ala Val Tyr Thr Ser Asp Pro Gln Ile Val Asn Trp Ser Val
35 40 45
Asp Ile Glu Asp Trp Leu Trp Gly Asp Thr Glu Thr Pro Glu Arg Gln
50 55 60
Leu Glu Ala Phe Tyr Arg Asp Val Arg
65 70

<210> 24015
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24015
Thr Leu Ser Trp His Ile Lys Pro Lys Leu Arg Thr Arg Ser Pro Thr
1 5 10 15
Leu Asn Ser Gln Glu Thr Pro Glu Cys Ser Asp Ile Pro Asp Asp Phe
20 25 30
Val Val Asp Val Phe Asp Gly Leu Gln Thr Phe His Pro Ser Thr Ile
35 40 45
Val Ser Ala Gly Lys Arg Ser Cys Lys Gly Ala His Phe Arg Cys Val
50 55 60
Leu Glu Trp Arg Ala Ile
65 70

<210> 24016
<211> 202
<212> PRT
<213> A.fumigatus

<400> 24016
Leu Leu Ser Thr Ser Phe Gly Lys Phe Gly Ser His Tyr Leu Lys Arg
1 5 10 15
Glu Phe Tyr Phe Asp Val His Pro Pro Leu Gly Lys Met Leu Val Gly
20 25 30
Leu Ser Gly Leu Leu Ala Gly Tyr Asn Gly Ser Phe Glu Phe Lys Ser
35 40 45
Gly Glu Lys Tyr Pro Glu Asp Val Asn Phe Thr Phe Met Arg Val Phe
50 55 60
Asn Ala Ala Phe Gly Val Ala Cys Val Pro Leu Ala Tyr Tyr Thr Ala
65 70 75 80
Arg Glu Leu Gly Phe Arg Lys Ala Thr Val Trp Leu Ile Ser Leu Met
85 90 95
Val Leu Phe Glu Asn Ser Tyr Ala Thr Ile Ser Arg Phe Ile Leu Leu
100 105 110
Asp Ser Met Leu Leu Cys Phe Thr Phe Met Thr Thr Met Cys Trp Ala
115 120 125
Lys Phe His Arg Leu Gln His Ala Ser Phe Ser Gly Gln Trp Phe Thr
130 135 140
Trp Leu Phe Leu Thr Gly Ile Ser Ile Gly Cys Val Cys Ser Val Lys
145 150 155 160

```
Trp Val Gly Leu Phe Cys Thr Ala Leu Val Gly Leu Tyr Thr Ile Glu
                165                 170                 175
Asp Leu Trp Asn Lys Phe Gly Asp Leu Arg Met Pro Lys Val Ser Thr
            180                 185                 190
Glu Gly Ser Ser Arg Arg Leu Leu Cys Thr
        195                 200
```

<210> 24017
<211> 236
<212> PRT
<213> A.fumigatus

<400> 24017

```
Pro Phe Glu Gln Thr Val Leu Val Asn His Leu Leu Ala Arg Val Val
1               5                   10                  15
Gly Leu Ile Ile Ile Pro Ala Val Val Tyr Met Leu Ser Phe Tyr Val
            20                  25                  30
His Phe Trp Ile Leu Glu Asn Ser Gly Pro Gly Asp Ala Gln Met Ser
        35                  40                  45
Ser Leu Phe Gln Ala Asn Leu Lys Gly Thr Glu Val Gly Lys Asp Ser
    50                  55                  60
Pro Leu Glu Ile Ala Val Gly Ser Arg Val Thr Leu Lys Asn Met Gly
65                  70                  75                  80
Tyr Gly Gly Gly Leu Leu His Ser His Val Gln Thr Tyr Pro Asp Gly
                85                  90                  95
Ser Asn Gln Gln Gln Val Thr Cys Tyr His His Lys Asp Ala Asn Asn
            100                 105                 110
Asp Trp Phe Ile Tyr Pro Asn Arg His Glu Pro Glu Tyr Asp Ala Ser
        115                 120                 125
Gly Pro Leu Ser Phe Val Gly Asp Gly Asp Val Ile Arg Leu Ile His
    130                 135                 140
Gly Gln Thr Gly Arg Asn Leu His Ser His Ala Ile Pro Ala Pro Ile
145                 150                 155                 160
Thr Lys Ser Gln Tyr Glu Val Ser Cys Tyr Gly Asn Ile Thr Ile Gly
                165                 170                 175
Asp Asp Lys Asp His Trp Ala Val Glu Val Val Asp Asp Val Ala Ser
            180                 185                 190
Arg Asp Arg Ser Arg Ile Arg Thr Leu Asn Thr Ala Phe Arg Leu Arg
        195                 200                 205
His Ile Val Leu Gly Cys Tyr Leu Arg Ala Gly Asn Val Lys Leu Pro
    210                 215                 220
Gln Trp Gly Phe Lys Gln Ile Glu Thr Thr Cys Val
225                 230                 235
```

<210> 24018
<211> 223
<212> PRT
<213> A.fumigatus

<400> 24018

```
Lys Lys Gln Gly Pro Pro Tyr Tyr Thr Pro Pro Leu Phe Gly Asn Gly
1               5                   10                  15
Ile Thr Ile Tyr Tyr Asp Gln Leu Ala Ser Asn Met Glu Ser Pro Thr
            20                  25                  30
Pro Phe Glu Ser Phe Ser Phe Arg Gly Asn Arg Ile Ile Ala Tyr Leu
        35                  40                  45
```

```
Gln Thr Leu Ala Lys Ala Lys Lys Gly Leu Pro His Gly Val Pro Val
    50                  55                  60
Cys Val Ser Pro Ser His Thr Ile Thr Asn Thr Glu Ser Leu Leu Thr
65                  70                  75                  80
Leu Ala Ser Leu Val Gly Pro His Val Ala Ile Phe Gln Val His Ala
                85                  90                  95
Asp Ile Ile Asp Asp Trp Ser Asp Glu Thr Val Arg Gln Leu Thr Leu
            100                 105                 110
Leu Ala Lys Arg His Ala Phe Leu Ile Trp Glu Ser Gly Arg Ile Leu
        115                 120                 125
Asn Ala Thr Val Asp Val Val Gly Lys Thr Thr Thr Glu Ser Arg Glu
    130                 135                 140
Val Arg Asn Glu Leu Val Asp Leu Ile Arg Lys Lys Tyr Thr Lys Gly
145                 150                 155                 160
Val Val Lys Ala Ala Ser Trp Ala Gly Ile Ala Thr Ala Trp Ala Ser
                165                 170                 175
Gly Val Thr Val Gly Asn Gln Glu Ala Asp Ile Leu Ile Pro Thr Leu
            180                 185                 190
Lys Ala Ala Ala Arg Glu Ala Val Ala Asp Ser Val Gln Thr Ile Arg
        195                 200                 205
Thr Glu Ile Thr Ala Val Asn Ala Pro Thr Glu Ser Leu Val Asn
    210                 215                 220
```

<210> 24019
<211> 296
<212> PRT
<213> A.fumigatus

<400> 24019

```
Asp Lys Cys Asp Gly Leu Arg Pro Ser Cys Ser Ala Cys Arg Ala Ser
1               5                   10                  15
Gly Gln Thr Cys Ser Tyr Asp Pro His Ala Lys Lys Arg Gly Leu Pro
            20                  25                  30
Glu Gly Tyr Val Arg Gly Leu Glu Lys Leu Trp Ala Leu Ser Ile Cys
        35                  40                  45
Asn Ile Asp Gly Phe Glu Asp Thr Met Leu Ala Leu Leu Gly Thr Thr
    50                  55                  60
Pro Asp Ser Ala Gly Arg Arg Asp Lys Leu Leu Ser Met Trp Met Asp
65                  70                  75                  80
Asp Ser Ala Ser Glu Thr Leu His Glu Ser Trp Lys Thr Ser Arg Leu
                85                  90                  95
Tyr Gly Thr Leu Glu Lys Met Leu Ser His Ser Asp Met Ser Ser Ser
            100                 105                 110
His Gly Ser Ser Lys Arg Pro Arg Asp Asp Asn Asp Thr Gly Ala Leu
        115                 120                 125
Asp Ser Thr Ser Gly Trp Gly Phe Arg Leu Asp Cys Ser Ser Thr Pro
    130                 135                 140
Leu Ala His Asp Ala Pro Arg Val Val Arg Leu Ser Ser Ser Gln Asn
145                 150                 155                 160
Val Lys Arg Pro Arg Leu Ser Gln Leu Gly Asp Gly Val Ser Val Ser
                165                 170                 175
Gln Thr Thr Gly Arg Pro Gln Pro Leu Lys Leu Pro Pro Gln Thr Ser
            180                 185                 190
Gln Leu Leu Asp Thr Tyr Phe Ala Val Thr His Ser Trp Phe Pro Ile
        195                 200                 205
Val Ala Lys His Asn Ile Leu Arg Ala Ser Tyr Leu Tyr Ala Ser Ala
```

```
    210                 215                 220
Pro Leu Ser Val Glu Ser Met Ser Pro Gly Ser Gly Glu His Ala Ala
225                 230                 235                 240
Leu Trp Ala Val Leu Ser Tyr Thr Val Ser His Ser Arg Thr Asn Ala
                245                 250                 255
Pro Asp Gly Ala Phe Asp Ala Leu Ala Thr Thr Asn Glu Tyr Tyr Pro
            260                 265                 270
Ile Ala Pro Arg Leu Ile Pro Ser Glu Asn Gly Thr Leu Arg Pro Trp
        275                 280                 285
Ala Cys Ala Gly Ala Ala Gly Cys
    290                 295
```

<210> 24020
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24020

```
Ala Cys Leu Cys Pro Gly Arg Arg Lys Arg Lys Asp Thr Thr Tyr Val
1               5                   10                  15
Glu Glu Arg Tyr His His His Ala His Gly Ser Lys Pro Glu Gly Arg
            20                  25                  30
Thr Trp Leu Gly Thr Arg Pro Ser Ala Ser Glu Gly Gly Glu Lys Lys
        35                  40                  45
Ser Lys Trp Gly Ser Leu Ala Thr Ile Gly Ile Ile Leu Gly Ala Leu
    50                  55                  60
Ala Leu Cys Leu Gly Leu Arg Arg Arg Lys Asp Glu Asp Glu Lys Ser
65                  70                  75                  80
Asp Tyr Thr Tyr Pro Ser Ser Tyr Tyr Tyr Tyr Ser Asp Tyr Tyr Thr
                85                  90                  95
Ser Ala Ser Met Ser Pro Leu Leu Leu Arg Leu Ala Val Ser Ser
            100                 105                 110
```

<210> 24021
<211> 279
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (272)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24021

```
Trp His Gly Pro Phe Gln Pro Arg Val Lys Thr Ala His Val Arg Ser
1               5                   10                  15
Arg Leu Glu Asp Leu Asp Ile Lys Thr Ile Ile Pro Tyr Val Val Gly
            20                  25                  30
His Thr Thr His Val Val Gln Ser Lys Arg Asn Thr Ala Lys Gly Leu
        35                  40                  45
Gln Ala Leu Val Asn Gly Lys Tyr Ile Val Gln Asp Ser Tyr Ile Asp
    50                  55                  60
Ala Leu Val Tyr Ala Ala Thr Pro Ser Asp Leu Glu Thr Leu Glu Ser
65                  70                  75                  80
Leu Ser Pro Leu Glu Thr Asp Phe Asp Ala Ala Trp Pro Asp Pro Thr
                85                  90                  95
```

```
Glu His Leu Pro Pro Pro Gly Lys Glu Ala Val Pro Arg Pro Ala Glu
            100                 105                 110
Ala Phe Val Pro Arg Ala Asp Arg Ile Asn Ile Phe Glu Asp Tyr Thr
        115                 120                 125
Phe Val Phe Trp Asp Ala Ser Gln Phe Ser Asn Leu Gln Asp Pro Ile
    130                 135                 140
Ser Asn Gly His Gly Lys Ala Leu Leu Tyr Pro Leu Glu Asn Gly Val
145                 150                 155                 160
Thr Thr Ala Glu Glu Ile Val Gln Phe Met Lys Asn Ala Ala Gly Gln
                165                 170                 175
Lys Gly Leu Gly Gly Glu Arg Val Gly Arg Gly Gly Val Val Leu Val
            180                 185                 190
Arg Phe Arg Ser Lys Gly Glu Trp Glu Lys Trp Ser Ile Glu Leu Ser
        195                 200                 205
Asn Gln Val Ala Leu Met Thr Asp Gln Arg Val Ile Glu Gln Asn Glu
    210                 215                 220
Phe Leu Asp Ala Ile Leu Ala Asn Asp Ala Ser Cys Leu Cys Gln Pro
225                 230                 235                 240
Leu Pro Glu Ala Glu Ser Ser Pro Glu Val Gly Arg Thr Pro Thr Ser
                245                 250                 255
Gln Pro Pro Thr Thr Pro Asn Glu His Val Glu Val Ile Gly Asp Xaa
            260                 265                 270
Gln Val Ile Lys Gly Gly Glu
        275
```

<210> 24022
<211> 91
<212> PRT
<213> A.fumigatus

<400> 24022

```
Cys Val Leu Arg Gly Glu Ser Glu Pro Arg Val Phe Ala His Met Gly
1               5                   10                  15
Met Phe Gly Ser Cys Asn Phe Leu Arg Pro Cys Ser Asp Asn His Gln
            20                  25                  30
Cys Met Ala Val Glu Cys Val Ala Val Ser Ile Ala Met Tyr Cys Leu
        35                  40                  45
Ile Gln Phe Tyr Tyr Gln Ile Lys Asp Asp Ile Ser Gln Tyr Ser Pro
    50                  55                  60
Leu Leu Lys Ile Val Ser Ile Lys Leu Val Ile Phe Leu Ser Phe Trp
65                  70                  75                  80
Gln Ser Val Ser Arg Ala Leu Ser Ser Asp Ser
                85                  90
```

<210> 24023
<211> 130
<212> PRT
<213> A.fumigatus

<400> 24023

```
Ser Ser Asp Ser Met Ile Ser Thr Pro Arg Phe Cys Leu Pro Leu Tyr
1               5                   10                  15
Thr Arg Leu Gly Leu Met Ser Gly Pro Val Leu Ser Ser Ile Ile Arg
            20                  25                  30
Ile Leu Trp Met Ile Pro Ile Tyr Ser Leu Val Ala Trp Leu Ser Thr
        35                  40                  45
```

```
Tyr Phe Tyr Lys Asn Ala Val Tyr Tyr Glu Leu Ile Gly Asn Ser Tyr
    50                  55                  60
Glu Ala Phe Thr Ile Ala Ala Phe Phe Ala Leu Leu Cys His Tyr Ile
65                  70                  75                  80
Ala Pro Asp Leu His Ser Gln Lys Glu Tyr Phe Arg Gly Ile Thr Pro
                85                  90                  95
Lys Gln Trp Leu Trp Pro Ile Pro Trp Leu Gln Lys Cys Cys Gly Gly
            100                 105                 110
Glu Lys Gly Met Trp Arg Val Pro Arg Ser Gly Leu Thr Trp Phe Asn
        115                 120                 125
Val Ser
    130
```

<210> 24024
<211> 175
<212> PRT
<213> A.fumigatus

<400> 24024

```
Thr Pro Val Thr Ser Ala Phe Ala Asn Thr Ser Thr Val Ser Pro Phe
1               5                   10                  15
Gly Ser Leu Gly Ala Ser Lys Ser Lys Glu Asp Asp Gly Pro Thr Lys
            20                  25                  30
Pro Ala Ala Val Thr Ser Ala Ser Ala Phe Ala Ser Ser Ser Leu Ala
        35                  40                  45
Ala Phe Ala Gly Ser Glu Gln Ser Pro Phe Gly Ser Leu Gly Ala Ser
    50                  55                  60
Thr Pro Ser Val Phe Lys Ser Pro Ala Ala Ser Glu Thr Glu Lys Pro
65                  70                  75                  80
Ala Ala Ala Gly Phe Ala Ala Gly Ala Asn Thr Ser Gly Phe Ala Ala
                85                  90                  95
Leu Gly Ser Gly Phe Ser Val Phe Ser Gly Gly Phe Gly Thr Ala Ala
            100                 105                 110
Lys Pro Gly Gly Leu Thr Ser Phe Ala Ser Pro Ala Ala Pro Ser Pro
        115                 120                 125
Phe Gly Ser Ser Thr Lys Asp Lys Pro Phe Gly Ala Ala Asp Ala Asp
    130                 135                 140
Glu Glu Glu Glu Glu Glu Asp Glu Ala Glu Thr Gly Pro Lys Glu Phe
145                 150                 155                 160
Glu Ala Glu Lys Pro Asp Glu Arg Phe Phe Glu Arg Gln Ser Met
                165                 170                 175
```

<210> 24025
<211> 125
<212> PRT
<213> A.fumigatus

<400> 24025

```
Tyr Cys Ala Leu Trp Thr Ala Ser Glu Leu Thr Pro Phe Leu Ser Thr
1               5                   10                  15
Thr Val Glu Thr Gly Glu Glu Gln Glu Lys Thr Tyr Phe Ser Gly Lys
            20                  25                  30
Ala Lys Leu Phe Gln Phe Thr Asn Lys Glu Trp Lys Glu Arg Gly Ile
        35                  40                  45
Gly Thr Phe Lys Val Asn Val Arg Val Thr Asp Gly Gln Glu Asp Lys
    50                  55                  60
```

```
Lys Ala Ala Arg Met Ile Met Arg Ala Asp Gly Val Leu Arg Val Met
65                  70                  75                  80
Leu Asn Thr Pro Leu Phe Lys Gly Met Lys Val Gly Asp Pro Ser Gly
                85                  90                  95
Asn Glu Pro Lys Ser Lys Gln Ile His Leu Ala Gly Gly Gln Gly Arg
            100                 105                 110
Pro Tyr Cys Pro Pro Pro Ala Gln Gly Lys Ala Phe Leu
        115                 120                 125
```

<210> 24026
<211> 150
<212> PRT
<213> A.fumigatus

<400> 24026

```
Met Ala Trp Thr Thr Asp Ala Gln Gln Ser Ala Asp Thr Asn Asn Ala
1               5                   10                  15
Met Gly Leu Gly Gly Gly Ser Asn Ser Arg Ser Ser Ser Arg Gly Arg
            20                  25                  30
Lys Arg Ser Phe Asp Asp Asp Glu Ala Glu Ser Asp Gly Glu Glu His
        35                  40                  45
Gly His Arg Arg Lys Arg Ser Arg Asp Ser Thr Ser Glu Gly Asp Asp
    50                  55                  60
Gln Pro Pro Arg Ser Glu Asn Asp Leu Pro Arg Lys Ile Leu Ser Pro
65                  70                  75                  80
Lys Lys Lys Arg Ser Arg Asp Lys Leu Asp Glu Asp Gly Ser Gly Glu
                85                  90                  95
Arg Ala Thr Glu Lys Ala Asp Thr Lys Ile Glu Asn Met Glu Ser Glu
            100                 105                 110
Gln Lys Pro Glu Ser Glu Gly Gln Pro Glu Lys Lys Arg His Arg Asp
        115                 120                 125
Asn Ser Thr Glu Arg Lys Pro Val Arg Val Asp Arg His Ile Val Ser
    130                 135                 140
Leu Ala Gly Lys Gly Arg
145                 150
```

<210> 24027
<211> 73
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (41),(65)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24027

```
Glu Asn Glu Ser Gly Thr Val Arg Asn His Ser Ile Ile Tyr Tyr Leu
1               5                   10                  15
Leu Ala Thr Ser Asp Ser Ala Leu Trp Val Arg Glu Met Leu Gly Thr
            20                  25                  30
Asp Asn Lys Cys Gln Asp Asp Ile Xaa Cys Lys Gly Glu Asp Pro Ala
        35                  40                  45
Arg Tyr Pro Asn Arg Leu Leu Asn Pro Arg Gly Gly Pro Gly Tyr Val
    50                  55                  60
Xaa His Glu Asp Ser Asn Gly Phe Gln
```

65 70

<210> 24028
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24028
Thr Arg Lys Arg Leu Glu Leu Glu Asn Ile Thr Leu Cys Arg Tyr Gly
1 5 10 15
Leu Asn Phe Ile Ala Trp Leu Ile Asp Val Ser Lys Ser Ala Glu Ile
20 25 30
His Leu Gly Ala Phe Trp Pro Gly Val Pro Lys Thr Arg Arg Val Val
35 40 45
Leu Arg Ser Ser Gln Ser Asn Val Lys Arg Glu Arg Asp Ser Lys Pro
50 55 60
Gln Asn Val Glu Arg Ala Cys Gly Tyr Cys Thr
65 70 75

<210> 24029
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24029
Met Ala Asp Thr Leu Ala Tyr Ser Phe Phe Ser Thr Asn Phe Leu Phe
1 5 10 15
Gln Tyr Thr Phe Asn Ser Gly Lys Cys Leu Val Trp Ile Met Tyr Leu
20 25 30
Thr Thr Trp His Ser Cys Ile Met Ala Arg Thr Pro Pro Met Leu Ser
35 40 45
Phe Ser His Asn Arg Phe Phe Ser Ile Asp Pro Ala Ala Leu Asp Ser
50 55 60
Ala Ser Ser Ser Gly Asp Asn Met Lys His Asp Thr Asp Val Glu Ser
65 70 75 80
Leu Val Ser Ser Leu Thr Ser Ile Leu Ala Phe Gly Ser Pro
85 90

<210> 24030
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24030
Val Leu Lys His Met Leu Ala Asn Gln Lys Pro Leu Leu Arg Leu Ser
1 5 10 15
Lys Ala Cys Leu Asp Met Ser Lys Val Gly Phe Lys Thr Tyr Glu Pro
20 25 30
Arg Arg Ser Met Ile Asn Ala Val Tyr Tyr Arg Tyr Phe Arg Val Met
35 40 45
Leu Lys Pro Leu Leu Gly Arg Ser Lys Ser His Asn Glu Tyr Arg Leu
50 55 60
Met Gln Gln Gly Gly His Val Ser Leu
65 70

<210> 24031

<211> 66
<212> PRT
<213> A.fumigatus

<400> 24031
Met Ile Pro Trp Asp Ser Cys Lys Tyr Ser Cys Leu Arg Gly Leu Leu
1 5 10 15
Val Ala Ala Gly Arg Leu Gly Ser Ser Ala Tyr Lys Cys Asn Ser Val
20 25 30
Pro Phe Ser Gln Val Gly Phe Ala Ser Leu Glu Ala Ser Leu Asp Ser
35 40 45
Met Thr Leu Phe Tyr Ser Lys Ser Trp Gly Ser Ser Leu Thr Gln Ser
50 55 60
Met Val
65

<210> 24032
<211> 145
<212> PRT
<213> A.fumigatus

<400> 24032
Gly His Tyr Arg Leu Ile Pro Asp Ala Phe Pro Leu Ser Thr Met Ile
1 5 10 15
Leu Leu Gly Leu Ala Thr Thr Ala Phe Asp Ala Glu Pro Asp Ser Ala
20 25 30
Arg Pro Asp Asn Ala Asp Gln Met Thr Ser His Asn Leu Ala Gln Thr
35 40 45
Cys Trp Arg Arg Pro Glu Val Ala Arg Ala Gly Asn Pro Glu Ser Ser
50 55 60
Ser Ala Tyr Asn Ser Ala Cys Ala Met Val Leu Leu Arg Gln Lys Ile
65 70 75 80
Gln His Val Ser Phe Asn Tyr Arg Glu Asp Leu Leu Arg Phe Glu His
85 90 95
Leu Val Asp Arg Ala Val Ser Phe Ser Phe Leu Asn Gln Arg Thr Ser
100 105 110
His Ser Pro Leu Gly Glu Val Gln Thr Asp Leu Ile Leu Asn Phe Leu
115 120 125
Pro Gly Glu Pro Ser Ser His Gln Asn Leu Glu Asp Ile Val Phe Ser
130 135 140
Arg
145

<210> 24033
<211> 196
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24033
Arg Arg Leu Ile Glu Xaa Ala Arg Thr Arg Gly Glu Asp Phe Glu Val
1 5 10 15

```
Ile Asn Pro Leu Phe Leu Leu Thr Ala Lys Pro Val Val Tyr Leu Val
            20                  25                  30
Asn Leu Ser Glu Lys Asp Tyr Ile Arg Gln Lys Asn Glu Tyr Leu Pro
        35                  40                  45
Lys Val Phe Glu Trp Ile Gln Lys Asn Ser Pro Gly Asp Pro Leu Ile
    50                  55                  60
Pro Ile Ser Val Ser Phe Glu Glu Arg Leu Ala Ala Phe Gly Asp Asp
65                  70                  75                  80
Ala Arg Ala Ala Glu Glu Cys Lys Ala Leu Asn Thr Lys Ser Ala Leu
                85                  90                  95
Pro Lys Val Ile Val Thr Met Arg Gln Val Leu Asn Leu Ala Ser Phe
            100                 105                 110
Phe Thr Thr Gly Ser Asp Glu Val Arg Gln Trp Thr Ile Arg Lys Gly
        115                 120                 125
Thr Lys Ala Pro Ala Ala Ala Gly Val Ile His Thr Asp Phe Glu Lys
    130                 135                 140
Thr Phe Ile Gln Ala Ile Val Tyr Asn Tyr Thr Thr Leu Arg Glu Tyr
145                 150                 155                 160
Gly Asp Glu Ala Ala Val Lys Ala Ala Gly Lys Ile Met Thr Lys Gly
                165                 170                 175
Lys Asp Tyr Val Val Glu Asp Gly Asp Ile Leu Leu Ile Lys Ala Gly
            180                 185                 190
Ala Ala Lys Gly
        195
```

<210> 24034
<211> 144
<212> PRT
<213> A.fumigatus

```
<400> 24034
Val Gly Thr Ala Ile Ser Tyr Trp Arg Leu Lys Leu Ala Asn Gly Met
1               5                   10                  15
Pro Phe Gly His Arg Leu Trp Cys Asp Val Gln Val Arg Asp Ser Met
            20                  25                  30
Ala Ala Ser Thr Lys Leu Glu Pro Val Gly Glu Ala Pro Arg Ala Pro
        35                  40                  45
Glu Gln Gln Ala Glu Ala Ala Pro Val Asp Asp Thr Glu Arg Thr Gly
    50                  55                  60
Ser Gln Met Ile Phe Pro Thr Leu Asp Lys Glu Ser Pro Val Gly Ser
65                  70                  75                  80
Ala His Gln Ala Met Val Glu Ala Pro Leu Thr Ala Pro Ser Val Ser
                85                  90                  95
Asn Pro Ser Glu His Asp Ile Leu Glu Asp Val Glu Thr Leu Thr Leu
            100                 105                 110
Asp Asp Thr Asn Thr Glu Thr Gly Phe Leu Thr Asp Glu Glu Tyr Asp
        115                 120                 125
Val Leu Asp Ala Ser Asp Gln Asp Tyr Leu Glu Ala Gln Ser Arg Val
    130                 135                 140
```

<210> 24035
<211> 214
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (74)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24035
Ser Ser Trp Ala Pro Lys Lys Gly Gly Ile Asn Pro Gly His Arg Tyr
1 5 10 15
Asp Arg Ala Gly Ala Lys Ala Gly Thr Asp Gln Arg Leu Ala Tyr Gly
20 25 30
Gly His Ala Ala Pro Val Met Trp Thr Ala Phe His Pro Ala Lys Gly
35 40 45
Pro Val Asp Leu Gly Asp Leu Met Leu Ser Ser Ser Leu Asp Trp Ser
50 55 60
Val Lys Leu Trp Arg Val Arg Pro Pro Xaa Thr Thr Ala Pro Ala Thr
65 70 75 80
Ser Ala Ala Ile Ala Thr Thr Gln Val Val Ser Pro Ile Phe Asp Leu
85 90 95
Asn Arg Glu Asp Val Val Tyr Asp Ala Arg Trp Ser Pro His Arg Pro
100 105 110
Gly Val Phe Ser Leu Val Asp Gly Ala Gly Asn Leu Glu Val Trp Asp
115 120 125
Leu Cys Ser Asp Thr Glu Val Pro Val Val Arg Thr Thr Pro Thr Arg
130 135 140
Gly Arg Gly Gly Ile Leu Thr Arg Ser Leu Asn Lys Val Ala Trp Glu
145 150 155 160
Glu Arg Glu Gly Lys His Leu Ala Thr Gly Gly Leu Asp Gly Val Ile
165 170 175
Thr Val Phe Glu Val Gly Lys Gly Leu Ser Gly Thr Pro Glu Glu Val
180 185 190
Pro Ser Asp Glu Trp Thr Ala Met Lys Arg Leu Val Gly Lys Leu Glu
195 200 205
Gln Arg Asp Arg Val Asn
210

<210> 24036
<211> 171
<212> PRT
<213> A.fumigatus

<400> 24036
Arg Pro Glu Ser Gly Lys Glu Glu Ser Val Glu Arg Ile Lys Glu Glu
1 5 10 15
Pro Ala Asp Asp Asp Ala Asp Val Asp Met Glu Arg Ser Tyr Asn Asp
20 25 30
Ile Glu Asp Glu Glu Asp Leu Lys Glu Arg Ile Lys Arg Glu Asp Ser
35 40 45
Gln Leu Gln Gln Ile Ser Gly Thr Gly Leu Glu Glu Glu Thr Thr Leu
50 55 60
Asp Gln Gly Leu Gly Ala Thr Leu Asn Met Leu Lys Gln Arg Gly Leu
65 70 75 80
Val Lys Pro Ser Asp Ala Val Glu His Asn Ala Leu Leu Arg Ala Arg
85 90 95
Gln Arg Phe Leu His Glu Lys Ile His Leu Glu Thr Glu Ala Glu Lys
100 105 110
Arg Ala Arg Gln Gln Arg Glu Arg Asp Arg Ala Ser Gly Lys Leu Asp
115 120 125

```
Arg Met Ser Ala Arg Glu Arg Glu Glu Tyr Ala Arg Trp Glu Asn Lys
    130                 135                 140
Gln Arg Asp Gln Gln Arg Cys Thr Thr His Gly Gly Ser Leu Gln Gln
145                 150                 155                 160
Gly Ile Gln Ala Arg Cys Thr Thr Gln Val Arg
                165                 170
```

<210> 24037
<211> 175
<212> PRT
<213> A.fumigatus

<400> 24037

```
Ile Cys Ser Ser Asn Ala Ala Trp Ser Ser His Pro Met Leu Leu Ser
1               5                   10                  15
Thr Thr His Ser Cys Gly Leu Val Ser Val Ser Cys Thr Arg Arg Phe
            20                  25                  30
Thr Leu Lys Arg Arg Pro Arg Asn Ala Leu Gly Asn Ser Val Asn Ala
        35                  40                  45
Thr Glu Pro Leu Val Asn Leu Ile Gly Cys Arg Pro Val Ser Val Lys
    50                  55                  60
Asn Thr His Gly Gly Lys Thr Ser Asn Val Thr Asn Lys Asp Ala Arg
65                  70                  75                  80
His Met Ala Glu Val Phe Asn Lys Glu Tyr Lys Pro Asp Val Gln Leu
                85                  90                  95
Lys Tyr Val Asp Glu Phe Gly Arg Leu Met Asn Gln Lys Glu Ala Phe
            100                 105                 110
Lys His Leu Ser His Gln Phe His Gly Lys Gly Ser Gly Lys Met Lys
        115                 120                 125
Thr Glu Lys Arg Leu Lys Lys Ile Glu Glu Glu Lys Lys Arg Glu Ala
    130                 135                 140
Met Ser Ala Leu Asp Ser Ser Gln His Thr Gly Met Asn Asn Ala Met
145                 150                 155                 160
Gly Ala Thr Ala Arg Lys Asn Arg Gln Ala Gly Val Arg Leu Gly
                165                 170                 175
```

<210> 24038
<211> 72
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (62)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24038

```
Gly Ala Asp Ser Leu Val Asn Pro Ala Ser Asp Arg Ile Leu Arg Ser
1               5                   10                  15
Leu Phe Val Lys Val Ser Gly Glu Ala Asn Ser Val Asn His Asn Pro
            20                  25                  30
His Tyr Gly Arg Leu Asp Ser Lys Leu Lys Val Val Thr Pro His Gln
        35                  40                  45
Gln Trp Gln Glu Arg Met Leu Thr Val Ser Ile Ser Leu Xaa Tyr Glu
    50                  55                  60
Thr His His Thr Arg Cys Cys Leu
```

65 70

<210> 24039
<211> 191
<212> PRT
<213> A.fumigatus

<400> 24039
Ala Thr Trp Ser Cys Pro Ser Val Val Leu Leu Phe Val Ala Asp Arg
1 5 10 15
Ala Arg Pro Arg Ser Ser Pro Met Glu Val Val Asn Gly Val Glu Met
20 25 30
Pro Ser Phe Arg Gly Asp Asn Ile Asn Gly Phe Ala Ala Thr Ala Glu
35 40 45
Ser Arg Arg Pro Asp Pro Ser Arg Leu Val Ser Ala Tyr Phe His Ser
50 55 60
Ala Ala Thr Leu Asn Tyr Met Arg Ala Ser Leu Ser Ser Gly Leu Ala
65 70 75 80
Asp Leu His Ser Pro Leu Asp Trp Gly Leu Gly His Val Ile Glu Pro
85 90 95
Ser Ile Lys Glu Lys Tyr Glu Arg Ile Val Asn Arg Val Lys Asp Ala
100 105 110
Leu Arg Phe Met His Thr Val Gly Ile Asp Thr Asp Arg Gly Val Glu
115 120 125
Thr Val Asp Val Phe Thr Ser His Gln Gly Leu Leu Leu Glu Phe Glu
130 135 140
Gln Ser Phe Asn Pro Leu Phe Val Gln Pro Thr Tyr His Asn Phe His
145 150 155 160
Asn Pro Gln Gly Ser Leu Leu Arg His Leu Pro Glu Thr Phe Leu Trp
165 170 175
Asp Arg Gly Asn Ala Pro Arg Pro Thr Ser Thr Gly Ala His Cys
180 185 190

<210> 24040
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24040
Ala Ser Leu Trp Val Val Lys Val Val Val Gly Gly Leu His Lys Lys
1 5 10 15
Arg Val Lys Thr Leu Phe Glu Phe Lys Glu Lys Thr Leu Val Ala Gly
20 25 30
Lys Asn Val Asp Gly Leu Asp Ala Ser Val Cys Val Asp Ser Asp Gly
35 40 45
Val His Lys Thr Gln Arg Val Phe Asp Ser Val Asp Asp Ala Leu Val
50 55 60
Leu Leu Phe Asp
65

<210> 24041
<211> 98
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (95)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24041
Ala Arg Pro Phe Lys Tyr Ser Leu Ile Ser Leu Phe Leu Pro Ile Asp
1 5 10 15
Thr His Phe Leu Cys Thr Thr Thr Val Leu Ile Ile Met Ala Ser Trp
20 25 30
Leu Gln Ile Pro Lys Asn Ser Pro Phe Ser Leu Ala Asn Ile Pro Phe
35 40 45
Gly Ile Ile Ser Ser Ala Lys Ile Thr Ser Pro Val Ala Ala Val Ala
50 55 60
Val Gly Asp Tyr Ala Leu Asn Leu Ser Ile Phe Ala Ser Ser Gly Gly
65 70 75 80
Phe Ser Gln Leu Pro Val Ile Gln Pro His Leu Gly Val Phe Xaa Gln
85 90 95
Pro Thr

<210> 24042
<211> 99
<212> PRT
<213> A.fumigatus

<400> 24042
Thr Ser Arg Thr Glu Ala Val Lys Gly Ala Leu Pro Val Gly Gln Asn
1 5 10 15
Ser Pro Gln Lys Ala Pro Tyr Gly Leu Tyr Ala Glu Lys Leu Ser Gly
20 25 30
Thr Ala Phe Thr Ala Pro Arg His Glu Asn Lys Gln Thr Trp Val Tyr
35 40 45
Arg Ile Leu Pro Ala Ala Ala His Glu Asn Phe Lys Ala Glu Asp Ala
50 55 60
Asp Ser Tyr His Thr Ser Met Thr Thr Glu Thr His Lys Ile His His
65 70 75 80
Ile Pro Asn Gln Val Arg Val Phe Thr Ser Asp Arg Pro Ser Gly Leu
85 90 95
Ala Lys Lys

<210> 24043
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24043
Arg Leu Leu Ala Phe Ser Cys Ser Arg Ser Ile Trp Phe Leu Arg Arg
1 5 10 15
Pro Asp Ser Pro Ser Gln Pro Asp Leu Ile Val Val Tyr Leu Pro Phe
20 25 30
Asn Val Pro Val Asn Leu Gln Ile Phe Asp Ile Met Pro Val Thr Gln
35 40 45
Phe Ser His Pro Asp Pro Tyr Ser Tyr Gln Thr Gly Phe Asp Ser Tyr
50 55 60
His Glu Tyr Glu Arg Lys Ser Leu Ala Ser Ile Tyr Arg Ser

65 70 75

<210> 24044
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24044
Ser Asp Asn Thr Ser Ser Trp Val Glu Arg Thr Phe Ser Gly Lys Arg
1 5 10 15
Ala Gln Asp Ser Ser Val Lys Glu Trp Leu Cys Gly Pro Asp Gly Leu
20 25 30
Ile Glu Thr Met Thr Ile Gly Asn Trp Tyr Lys Leu Leu Thr Trp Ser
35 40 45
Thr Pro Val Phe Gln Leu Val Glu Gly Phe Cys Ser Leu Leu Val Ile
50 55 60
Gln Ala Ala Gly Gln Ile Thr Arg Trp Leu Val Asn Arg Gly Gly Arg
65 70 75 80
Ser Asp Ser Trp Met Val
85

<210> 24045
<211> 197
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (183),(197)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24045
Met Asp Ala Asn Leu His Leu Gln Ile Ala Leu Leu Val Leu Ser Ala
1 5 10 15
Ser Ile Ile Ser Ser Ser Val Tyr Phe Leu Trp Arg Val Leu Gln Phe
20 25 30
Pro Glu Ile Ser Asn Val Asp Ala Ala Leu Ile Gly Val Ser Ile Thr
35 40 45
Cys Ala Val Ile Leu Cys Ala Trp Gly Ile Gly Ser Gly Arg Gly Asn
50 55 60
Pro Val Glu Ser Ser Leu Leu Phe Ala Tyr Val Val Leu Cys Ile Tyr
65 70 75 80
Gln Ile Phe Thr Asp Tyr Gln Pro Ser Phe Pro Val Glu Gln Gly Ser
85 90 95
Ser Pro Ser Gln Thr Gly Asp Phe Pro Pro Leu Pro Pro Ile Ile Met
100 105 110
Ala Ser Tyr Ser Thr Leu Met His Ala Leu Ser Ser Leu Pro Ser Ile
115 120 125
Ile His Ala Ala Phe Asn Val Ile Thr Ala Val Phe Ser Ala Val Thr
130 135 140
Pro Ser Val Leu Ile Ser Leu Ala Tyr Arg Ile Phe Val Leu Tyr Ala
145 150 155 160
Ser Thr Arg Ile Ile Pro Ala Val Arg Glu Ser Gly Ala Arg Ala Leu
165 170 175
Ser Gln Glu Ala Ser Leu Xaa Asp Thr Asp Ala Ala Gly Ser Phe Leu
180 185 190

Gly Phe Leu Ser Xaa
195

<210> 24046
<211> 299
<212> PRT
<213> A.fumigatus

<400> 24046
Tyr Leu Thr Asn Ala Glu Ile Glu Val Leu Gln Thr Pro Leu Gln Glu
1 5 10 15
Asp Cys Gly Thr Arg Ser Pro Arg Thr His Asn Tyr Trp Ser Trp Val
20 25 30
Val Gly Met Ile Ser Pro Glu Glu Cys Ser Asp Gly Ser Val Ser Asn
35 40 45
His Pro Cys Arg Asn Leu Arg Lys Ile Lys Ile Leu Leu Gln Glu Phe
50 55 60
Glu Arg Thr Gly Lys His Val Asp Tyr Tyr Ala Leu Asp Leu Ser Leu
65 70 75 80
Ser Glu Leu Gln Arg Thr Phe Val Glu Val Ser Ser Asp Glu Tyr Ser
85 90 95
His Val Asp Leu His Gly Leu His Gly Thr Tyr Asp Asp Ala Leu Ala
100 105 110
Trp Leu Ser Asn Pro Gln Asn Leu Gln Arg Pro Thr Val Val Met Ser
115 120 125
Met Gly Ser Ser Ile Gly Asn Phe Ser Arg Glu Gly Ala Ala Glu Phe
130 135 140
Leu Ala Gln Phe Ala Arg Leu Leu Lys Pro Ser Asp Leu Met Ile Ile
145 150 155 160
Gly Leu Asp Ala Cys Thr Asp Pro Asp Lys Val Tyr Lys Ala Tyr Asn
165 170 175
Asp Ser Lys Gly Ile Thr Gln Arg Phe Tyr Glu Asn Gly Leu Leu His
180 185 190
Ala Asn Ala Val Leu Gly Tyr Glu Ala Phe Gln Leu Ser Glu Trp Glu
195 200 205
Val Val Thr Asp Tyr Asp Val Ala Gly Gly Arg His Arg Ala Phe Tyr
210 215 220
Ser Pro Lys Gln Asn Val Thr Ile Asp Gly Val Leu Leu Gln Lys Gly
225 230 235 240
Glu Lys Leu Val Phe Glu Glu Ala Thr Lys Tyr Ser Pro Gln Gln Arg
245 250 255
Glu Gln Leu Trp Arg Asp Ala Asn Leu Val Leu Cys Glu Glu Leu Gly
260 265 270
Asn Ser Ser Glu Glu Tyr Arg Lys Leu Val Leu Ala Ser Arg Ser Ala
275 280 285
Val Val Ala Glu Met Tyr Gly Arg Ser Val Asp
290 295

<210> 24047
<211> 267
<212> PRT
<213> A.fumigatus

<400> 24047
Asp Arg Gly Cys Gly Phe Pro Gly Ala Met Pro Ser Lys Gln Thr Thr
1 5 10 15

```
Ala Ser Gly Asn Gly Gly Lys Gln Ile Pro Trp Ala Gln Ile Thr Ser
            20                  25                  30
Phe Pro Glu Asp Thr Asp Ser Asp Val Ile Arg Leu Asp Phe Thr Phe
        35                  40                  45
Ser Tyr His Pro Trp Ser Ile Gly Gln Gln Leu Tyr Leu Cys Phe Pro
    50                  55                  60
Asp Leu Ser Ile Trp Gln Ser His Pro Met Thr Pro Cys Ser Val Leu
65                  70                  75                  80
Thr Pro Gly Arg Glu Gln Thr His Thr Tyr Ile Ile Arg Ala Lys Ala
                85                  90                  95
Gly Leu Thr Arg Gln Leu Ala Leu Leu Ala Arg Ser Asp Gln Pro Ser
            100                 105                 110
Thr Ser Ile Val Leu Ala Gly Pro Tyr Gly Gln Ser Ile Leu Ser Thr
        115                 120                 125
Glu Leu Leu Gln Lys Asp Val Asn Ile Leu Cys Ile Ala Gly Gly Thr
    130                 135                 140
Gly Val Thr Phe Val Leu Pro Val Leu Leu Gln Leu Ser Arg Gln Thr
145                 150                 155                 160
Gly Phe Ala Ser Arg Arg Gly Leu Val Glu Phe Ile Trp Val Ile Arg
                165                 170                 175
Arg Lys Ala Asp Met Glu Trp Leu Gln Ser Glu Met Asp Glu Leu Val
            180                 185                 190
Ala Ala Ala Glu Leu Cys Ala Asn Phe Arg Ser Arg Val Phe Val Thr
        195                 200                 205
Arg Glu Gly Asp Ala Ser Thr Gln Ala Lys Ala Gln Asp Leu Glu Lys
    210                 215                 220
Lys Val Leu Val Ser Asp Ala Met Gln Arg Thr Glu Ser Thr Ala Ser
225                 230                 235                 240
Gln Asp Gly Glu Ala Pro Phe Thr Val Gln Cys Met Gly Ser Asn Ser
                245                 250                 255
Gly Asp Gly Gly Phe Ala Arg Gly Val Leu His
            260                 265
```

<210> 24048
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24048

```
Ser Pro Gln His Tyr Ala Asp Phe Ala Pro Arg Glu Thr Arg Lys Asp
1               5                   10                  15
Ser Pro Lys Thr Ser Gly Ile Leu Arg Ala Ala Ser Arg Pro Ile Leu
            20                  25                  30
Cys Asn Ala Gly Trp Tyr His Ser Ser Ala Pro Ala Gly Val Tyr Asp
        35                  40                  45
Gln Thr Asp Thr Asp Thr Thr Glu Asp Tyr Ile Trp Cys Glu Gly Ala
    50                  55                  60
Glu Gln Glu Ile Gly Val Ala Phe Ile Pro Gln Gly Ser Gly
65                  70                  75
```

<210> 24049
<211> 159
<212> PRT
<213> A.fumigatus

<400> 24049

```
His Ala Ala Cys Val Arg Cys Cys His Trp Pro Asp Ala Asp Gly Gln
1               5                  10                  15
His Pro Cys Cys Ala Ala Gly Cys Arg Cys Ile Pro Ile Asp Gly Trp
            20                  25                  30
Gly Met Thr Pro Leu His Tyr Ala Ala Glu Asn Gly His Arg Asn Ile
        35                  40                  45
Val Arg Ile Ile Leu Asp Ser Pro Gly Thr Asn Ala Trp His Thr Ser
    50                  55                  60
Ile Tyr Asp Lys Thr Pro Leu Ala Leu Ala Ala Glu Arg Gly His Leu
65                  70                  75                  80
Asp Ile Val Lys Phe Leu Leu Asp Ser Arg Gln Gln Val Pro Gly Asp
                85                  90                  95
Ala Val Trp Lys Ala Leu Ser Pro Ala Ser Ser Ala Arg Ala Lys Phe
            100                 105                 110
Gln Leu Gly Leu Glu Thr Leu Gln Ser Arg Gly Glu Gly Ile Ser Val
        115                 120                 125
Lys Glu Arg Leu Leu Arg Asp Thr Tyr Ser Arg Arg Leu Asn Glu Val
    130                 135                 140
Arg Asp Ile Leu Leu Leu Phe Cys Asp Tyr Leu Glu Arg Gly Asn
145                 150                 155
```

<210> 24050
<211> 368
<212> PRT
<213> A.fumigatus

<400> 24050

```
Gly Ala Ala Pro Ser Ser Pro Val Val Lys Thr Lys Thr Met Lys Pro
1               5                  10                  15
Asn Phe Lys Phe Val Lys Thr Val Arg Asp Asp Glu Val Pro Thr His
            20                  25                  30
Leu Thr Val Pro Gln Lys Tyr Val Ile Leu Arg Gly Tyr Glu Asn Ala
        35                  40                  45
Met Pro Ala Leu Leu Glu Phe Val Thr Lys Tyr Val Glu Gly Glu Lys
    50                  55                  60
Glu Asn Pro Asn Gln Arg Pro Phe Lys Ala Ile Val Tyr Phe Asn Ser
65                  70                  75                  80
Thr Val Gln Thr Asn Leu Val Tyr Glu Thr Phe Arg Asn Ile Val Glu
                85                  90                  95
Gln Arg His His Pro Leu Arg Arg Val Arg Val Tyr Glu Ile His Ser
            100                 105                 110
Gln Leu Thr Gln Ala Arg Arg Thr Arg Ser Ser Asp Phe Phe Arg Ala
        115                 120                 125
Ala Lys Ser Ala Ile Leu Phe Ser Ser Asp Val Thr Ala Arg Gly Met
    130                 135                 140
Asp Phe Pro Asp Val Thr His Val Ile Gln Val Ser Ile Pro Arg Asp
145                 150                 155                 160
Arg Ala Thr Tyr Ile His Arg Leu Gly Arg Thr Ala Arg Ala Asn Lys
                165                 170                 175
Thr Gly Glu Gly Trp Val Leu Thr His Arg Gly Glu Leu Pro Glu Phe
            180                 185                 190
Leu Lys Gln Leu Glu Gly Ile Pro Leu Asn Leu Asp Lys Glu Thr Phe
        195                 200                 205
Ala Thr Ala Thr Val Asp Met Thr Lys Pro Glu Leu Asp Pro Lys Ser
    210                 215                 220
Pro Ala Thr Arg Phe Ile Gln Glu Ile Lys Asp Ala Val Arg Glu Val
```

225 230 235 240
Pro Glu Ser Leu Lys Arg Arg Ala Tyr Thr Ser Leu Leu Gly Pro Leu
245 250 255
Arg Gly Tyr Phe Ala Arg Lys Gln Asp Leu Ile Gln Ala Ile Asn Asn
260 265 270
Cys Val Val His Gly Tyr Gly Leu Pro Val Pro Pro Gln Leu Ser Pro
275 280 285
Thr Leu Ala Arg Asn Leu Gly Leu Asp Arg Val Pro Gly Val Arg Ile
290 295 300
Ala Asn Tyr Arg Gly Ser Ser Asp Asn Met Ser Thr Arg Pro Asp Tyr
305 310 315 320
Arg Gly Gly Asp Arg Asp Met Trp Ala Ser Asn Ser Arg Arg Gly Arg
325 330 335
Glu Phe Asn Ser Asp Arg Arg Glu Ser Arg Phe Gly Asn His Arg Asn
340 345 350
Ala Asp Asp Phe Phe Gly Gly Arg Arg Arg Ala Tyr Arg Asp Asp Tyr
355 360 365

<210> 24051
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24051
Ser Ser Ser Ala His Ala Asp Gly Cys Ser Trp Pro Asp Ile Ser Ala
1 5 10 15
Gln Leu Leu Arg Tyr Val Ala Asp Arg Thr Gly Ile Leu Ser Phe Ala
20 25 30
Asn Val Pro Leu Leu Trp Leu Phe Ala Gly Arg Asn Asn Ile Ile Tyr
35 40 45
Leu Ala Tyr Arg Met Glu Ala Phe Arg Thr Phe Asn Ile Phe Pro Ile
50 55 60

<210> 24052
<211> 65
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (48)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24052
Ala Ser Cys His His Gly Cys Gln Arg Phe Pro Ser Phe Phe Asn Ile
1 5 10 15
Ala Glu Ala Tyr Leu Gln Asp Ser Ser Cys Asp Glu Lys Arg Thr Glu
20 25 30
Ser His Phe Cys Cys Thr Gly Ser Cys Gln Val Glu Phe Leu Leu Xaa
35 40 45
Val Gln Thr Pro Arg Ala Leu Val Ala Leu Leu Thr Arg Met Glu Cys
50 55 60
Pro
65

<210> 24053

<211> 78
<212> PRT
<213> A.fumigatus

<400> 24053
Glu Ala Ile Thr Ile Thr Lys Leu Gly Asp Pro Tyr Arg Gln Val Glu
1 5 10 15
Trp Pro Val Ala Ser Met Val Tyr Val Ser Arg Trp Ile His Arg Tyr
20 25 30
Ala Val Ser Gln Met Ile Leu Ala Cys Val Ser Asp Met Val Gly Ile
35 40 45
Trp Thr Leu Met Gly Leu Glu Thr Leu Val Asp Ala Ile Leu Thr Leu
50 55 60
Leu Tyr Lys Tyr Arg Arg Thr Asn Leu Gly Tyr Pro Cys Gly
65 70 75

<210> 24054
<211> 161
<212> PRT
<213> A.fumigatus

<400> 24054
Thr Val Asp Ala Thr Glu Glu Val Gln Ser Thr Leu Tyr Ile Ala Ser
1 5 10 15
Ser Ser Gln Trp Phe Pro Leu Pro Leu Ala Leu Gly Ile Ser Pro Arg
20 25 30
Ala Tyr Lys Ile Lys Gln Thr Ser Met Thr Ser Pro Ala Tyr Ser His
35 40 45
His Phe Ser Ile Asn Asn Leu Pro Phe Gly Val Ala Ser Ser Ser Gln
50 55 60
His Pro Gln Pro Gln Cys Val Thr Arg Leu Gly Asn Thr Val Ile Phe
65 70 75 80
Leu Gly Asp Leu Gln Arg Ala Gly Leu Phe Arg Glu Val Thr Ser Leu
85 90 95
Pro Arg Gly Val Phe Asp Asn Arg Thr Leu Asn Ala Phe Ala Ala Leu
100 105 110
Asp Lys Gln Val His Lys His Val Arg Gln Ala Leu Gln Ser Ala Leu
115 120 125
Gln Asp Ser Gly Val Lys Lys Leu Pro Ile Gly Ser Thr Glu Pro Ile
130 135 140
Thr Ala Val Arg Met His Leu Pro Val Ser Ile Pro Ala Phe Thr Gly
145 150 155 160
Lys

<210> 24055
<211> 141
<212> PRT
<213> A.fumigatus

<400> 24055
His Leu Ala Asp Phe Ser Cys Ser Leu Asn His Val Lys Asn Ala Gly
1 5 10 15
Arg Ala Ile Leu Asn Asp Asp Thr Pro Pro Pro Gly Phe Phe His Phe
20 25 30
Pro Ile Gly Tyr Gly Gly Arg Ala Ser Thr Ile Val Pro Ser Gly Thr

```
        35                  40                  45
Pro Ile Thr Arg Pro Leu Gly His Phe Tyr Asp Arg Ser Ala Gly Ile
    50                  55                  60
Glu Lys Lys Thr Val Ala Tyr Gly Pro Ser Gln Ala Met Asp Tyr Glu
65                  70                  75                  80
Leu Glu Ile Gly Val Val Val Gly Thr Pro Val Pro Ala His Arg Gly
                85                  90                  95
Leu Asp Ala Thr Asp Ala Asp Glu His Ile Phe Gly Leu Val Leu Leu
            100                 105                 110
Asn Asp Trp Ser Gly Glu Pro Pro Pro Pro Phe Arg Arg Tyr Val Phe
        115                 120                 125
Thr Thr Gly Leu Glu Gly Ser Ala Val Val Gln Met Gly
    130                 135                 140
```

<210> 24056
<211> 343
<212> PRT
<213> A.fumigatus

<400> 24056

```
Ser Thr Thr Gln Thr Pro Pro Ser Val Ser Thr Arg Ile Gln Ser Arg
1               5                   10                  15
Val Asp Pro Ala Ala Gln Lys Ala Ser Asn Pro Gln Ser Leu Thr Ser
            20                  25                  30
Thr Ala Gln Asn Gln Leu Asn Lys Ser Asn Thr Thr Met Glu Asn Thr
        35                  40                  45
Ser Gly Ser Ala Thr Pro Lys Pro Arg Ala Asp Pro Ser Asp Lys Pro
    50                  55                  60
Asn Arg Pro Val Gln Val Ala Ser Pro Thr Asp Gln Asn Gly Ser Gln
65                  70                  75                  80
Gly Asp Lys Lys Arg Lys Leu Pro Ala Glu Glu Asn Ala Ser Glu Lys
                85                  90                  95
Ser Gln Pro Ala Pro Asp Arg Pro Val Ser Lys Arg Lys Arg Met Glu
            100                 105                 110
Glu Arg His Gln Lys Leu Arg Lys Arg Gly Arg Thr Pro Pro Ser Ala
        115                 120                 125
Tyr Ser Arg Arg Asp Ala Glu Glu Thr Ser Ser Ala Ala Asp Arg Asn
    130                 135                 140
Gly Pro Thr Cys Arg Cys Thr Ser Pro Leu Pro Pro Pro Arg Ser His
145                 150                 155                 160
Thr Pro Glu Asp Gln Pro Arg Gln Arg Lys Arg Pro Gly Gly Gly Ala
                165                 170                 175
Arg Met Gly Leu Val Asp Arg Glu Thr Leu Arg Arg Arg Gln Glu Glu
            180                 185                 190
Arg Glu Arg Ala Gln Val Glu Glu Ala Met Arg Ala Ser Gln Ser Arg
        195                 200                 205
Gly Val Ala Asp Val Val Arg Gln His Tyr Asn Ala Val Pro Gln Arg
    210                 215                 220
Gly Arg Glu Trp Arg Lys Thr Glu Ser Lys Ile Lys Gly Leu Arg Ser
225                 230                 235                 240
Phe Asn Asn Trp Val Lys Ser Thr Leu Ile Gln Lys Phe Ser Pro Asp
                245                 250                 255
Glu Glu Phe Leu Ala Arg Phe Asn Gly Thr Lys Glu Trp Ala Glu Asp
            260                 265                 270
Gly Gly Val Pro Pro Val Glu Glu Lys Arg Leu Leu Val Val Asp Leu
        275                 280                 285
```

```
Gly Cys Gly Lys Gly Gly Asp Leu Gly Lys Trp Gln Leu Ala Pro Gln
    290                 295                 300
Pro Val Asp Leu Tyr Val Gly Leu Asp Pro Ala Glu Val Ser Ile Val
305                 310                 315                 320
Gln Ala Arg Glu Arg Tyr Asn Gly Met Asn Leu His His Arg Ala Ala
                325                 330                 335
Arg Arg Arg Val Gln Gly Glu
            340
```

<210> 24057
<211> 227
<212> PRT
<213> A.fumigatus

<400> 24057

```
Asn Val Gln Val Ser Phe Asn Tyr Val Ser Ala Ser Ser Lys Ala Ala
1               5                   10                  15
Ala Asp Ala Leu Val Gln Glu Leu Arg Asn Glu Asn Lys Glu Ala Leu
            20                  25                  30
Ala Ile Gln Ala Asp Met Thr Asp Ile Asp Ala Pro Ser Arg Ile Val
        35                  40                  45
Gln Ala Thr Leu Ala Glu Phe Lys Thr Glu Gln Ile Asp Ile Leu Val
    50                  55                  60
Asn Asn Ala Gly Ala Gly Asp Asn Arg Pro Leu Glu Glu Val Thr Val
65                  70                  75                  80
Asp Val Tyr Gln Asn Leu Met Asp Val Asn Val Arg Ala Val Ile Phe
                85                  90                  95
Met Thr Lys Ala Ile Leu Ser Tyr Ile Pro Arg Asn Gly Arg Ile Ile
            100                 105                 110
Asn Leu Ser Ser Ile Ser Ala Arg Gly Gly Tyr Ala Thr Gln Ser Val
        115                 120                 125
Tyr Ala Ala Thr Lys Ala Ala Val Glu Gly Leu Thr Arg Val Trp Ala
    130                 135                 140
Thr Glu Leu Gly His Lys Tyr Gly Val Thr Val Asn Ala Ile Asn Pro
145                 150                 155                 160
Gly Pro Val Asp Thr Asp Met Tyr Arg Ala Ala Gly Pro Val His Leu
                165                 170                 175
Ala Arg Met Glu Glu Gln Asn Lys Lys Val Pro Ala Gly Gln Arg Cys
            180                 185                 190
Gly Thr Val Asp Asp Ile Ala Asp Ile Val Thr Phe Leu Ala Gln Glu
        195                 200                 205
Arg Ser Arg Trp Val Thr Gly Asp Val Ile Cys Ala Asn Gly Gly Met
    210                 215                 220
Leu Tyr Ile
225
```

<210> 24058
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24058

```
Glu Asp Thr Thr Met Ser Leu Gln Gly Lys Val Ala Ile Val Thr Gly
1               5                   10                  15
Gly Ala Arg Gly Ile Gly Ala Gly Ile Val Arg Ser Leu Ser Lys Glu
            20                  25                  30
```

```
Gly Ala Lys Val Arg His Ser Ser Asp Cys Tyr Gly Arg Asn Ile Lys
        35                  40                  45
Leu Thr Asp Lys Met Phe Arg Ser Pro Ser Ile Met Ser Leu His His
    50                  55                  60
Gln Arg Gln Pro Gln Met Leu Ser Ser Arg Asn Phe Ala Met Lys Thr
65                  70                  75                  80
Lys Arg Pro Ser Pro Ser Lys Gln Ile
                85
```

<210> 24059
<211> 209
<212> PRT
<213> A.fumigatus

<400> 24059

```
Ile Asp Ser Glu Pro Val Lys Lys Ala Glu Lys His Arg Lys Gly Ser
1               5                   10                  15
Thr Ser Asn Asp Ser Thr Ala Gly Lys Ala Leu Lys Arg Lys Arg Asp
            20                  25                  30
Gly Asp Asn Thr Gln Lys Asp Pro Gln Leu Gln Glu Tyr Leu Ser Val
        35                  40                  45
Ile Glu Arg Pro Ser Lys Thr Lys Thr Trp Ala Asn Gly Asp Asp Phe
    50                  55                  60
Leu Asn Thr Ile Gln Asn Gln Pro Ala Thr Ser Glu Leu Arg Glu Glu
65                  70                  75                  80
Gln Arg Asp Asp Thr Ser Glu Lys Val Glu Glu His Ser His Lys Gln
                85                  90                  95
Arg Lys Lys Pro Arg Val Asp Asp Val Pro Lys Ala Ala His Asp Arg
            100                 105                 110
Glu Pro Glu Pro Met Val Leu Asp Lys Thr Glu Glu Glu His Glu Arg
        115                 120                 125
Ala Asn Ala Asp Gly Gln Val Glu Ala Ile Pro Pro Thr Gln Glu Glu
    130                 135                 140
Ala Glu Pro Val Ser Asp Ala Asp Trp Leu Arg Ser Lys Thr Ser Arg
145                 150                 155                 160
Leu Leu Gly Leu Leu Asp Glu Asp Glu Gln Ala Glu Phe Asp Ser Thr
                165                 170                 175
Ala Gln Arg Lys Pro Asp Pro Ser Ser Glu Pro Glu Thr Val Ser Lys
            180                 185                 190
Pro Gly Ala Gln His Phe Leu His Ala Gly His Gly Arg Thr Arg Ala
        195                 200                 205
Pro
```

<210> 24060
<211> 122
<212> PRT
<213> A.fumigatus

<400> 24060

```
Asp Thr Ile Met Glu Asn Thr Arg Val Phe Val Ser Gly Leu Pro Pro
1               5                   10                  15
Thr Phe Thr Asn Asp Gln Leu Arg Lys His Phe Ser Ser Arg Phe Gln
            20                  25                  30
Ile Thr Asp Ala His Val Leu Pro Lys Arg Arg Ile Gly Phe Val Gly
        35                  40                  45
```

```
Phe Lys Ser Ser Glu Ala Ala Gln Gln Ala Ala Ser Tyr Phe Asn Lys
    50                  55                  60
Thr Tyr Val Lys Met Ser Lys Ile Ser Val Glu Ile Ala Lys Pro Val
65                  70                  75                  80
Cys His Phe Leu Arg Thr Thr Leu Ile Leu Val Pro Met Phe Phe Cys
                85                  90                  95
His Phe His Leu His Pro Leu Thr Cys Cys Lys Val Gly Leu Glu Thr
            100                 105                 110
Asp His Asn Gly Arg Leu Thr Leu Ser Leu
        115                 120
```

<210> 24061
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24061

```
Ser Gln Arg Thr Asn Ile Lys Ala Phe Arg Ile Thr Cys Pro Gly Ser
1               5                   10                  15
Pro Pro Ala Gln Gln Thr Val Pro Cys Thr Val Arg Asp Ser Asn Pro
            20                  25                  30
Pro Thr Trp Ser Pro Pro Pro Ser Met Ala Asn Pro Ile Leu Ser Ser
        35                  40                  45
Leu Gln Glu Gly Phe Gly Lys Ser Val Asn Pro Gly Gln Arg Thr Ser
    50                  55                  60
Lys Lys Leu Gly Gln Glu Thr Asn Leu Pro Asn
65                  70                  75
```

<210> 24062
<211> 286
<212> PRT
<213> A.fumigatus

<400> 24062

```
Leu Leu Arg Arg Thr Phe Cys Pro Arg Leu Phe His Leu Gln Thr Pro
1               5                   10                  15
Gln Leu Asp Leu Leu Phe Lys Ser Val Trp Ile Gly Leu Ala Gly Ile
            20                  25                  30
Asp Arg Lys Ile Phe Gly Ala Ser Leu Ile Pro Lys Ile Cys Glu Cys
        35                  40                  45
Leu Gly Leu Thr Glu Lys Asn Ile Arg Leu Thr Asn Asp Val Asp Leu
    50                  55                  60
Leu Val Ala Ala Ala Thr Ser His Arg Asp Cys Ser Ser Ala Val Val
65                  70                  75                  80
Val Ile Ala Gly Thr Gly Ser Val Ala Met Arg Tyr Asn Arg Ser Val
                85                  90                  95
Asp Gly Ser Glu Tyr Ser Arg Val Ala Arg Ser Gly Gly Trp Gly His
            100                 105                 110
Phe Leu Gly Asp Glu Gly Gly Gly Tyr Ala Ile Gly Leu Glu Ala Ile
        115                 120                 125
Lys Tyr Thr Leu Thr Val Leu Glu Glu Met Arg Leu Gly Ile Cys Thr
    130                 135                 140
Glu Pro Leu Gly Leu Leu Glu Gln Ala Val Leu Lys Arg Leu Gly Cys
145                 150                 155                 160
Ala Ser Cys Gly Pro Lys Gln Ile Asp Leu Leu Ser Glu Ile Leu Val
                165                 170                 175
```

```
Gln Gln His Lys Gln Thr Ile Lys Ala Arg Ile Ala Gly Met Ala Glu
            180                 185                 190
Val Val Leu Ser Leu Asn Gly Gln Asn Asp Thr Ser Ser Ala Ile Val
        195                 200                 205
Ser Arg Gln Leu Asp Tyr Leu Ala Ser Arg Thr Val Gly Arg Leu Leu
    210                 215                 220
Asp Pro Ala Cys Ala Gly Tyr Ile Pro Thr Glu His Ser Gly Leu Ile
225                 230                 235                 240
Leu Ser Gly Ser Ile Leu Asn Asn Gln Ala Tyr Gln Asp Gln Phe Leu
                245                 250                 255
Asn Val Leu Ala Lys Ser Gly Ala Lys Phe Ala Tyr Val Glu Arg Val
            260                 265                 270
Ser Asp Ala Gly Leu Leu Gly Val Arg His Leu Thr Ser Pro
        275                 280                 285
```

<210> 24063
<211> 96
<212> PRT
<213> A.fumigatus

<400> 24063
```
Pro Ala Ile Gln Ser Pro Arg Ser Thr Leu Leu Phe Ser Gln Gly Ala
1               5                   10                  15
His Leu Gly Glu Glu Ile Asp Gly Ile Ser Val Tyr Leu Asp Phe Glu
            20                  25                  30
His Gln Pro Ser Asn Asn Ala Leu Thr Glu Leu Gly Leu Asn Leu Thr
        35                  40                  45
Gly Cys Val Trp Thr Val Asp Gln Glu Thr His Asn Thr Val Thr Val
    50                  55                  60
Glu Phe Tyr Asp Arg Glu Leu His Arg Asp Phe His Phe Thr Asp Pro
65                  70                  75                  80
Tyr Leu Tyr Asp Arg Ala Cys Leu Ser Met Glu His Tyr Pro Ala Val
                85                  90                  95
```

<210> 24064
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24064
```
Arg Phe Leu Asp Glu Asn Gly Thr Leu Phe Ser Asn Asn Pro Thr Asp
1               5                   10                  15
Gly Ser Pro Ala Thr Ile Phe Tyr Arg Pro His Glu Thr Trp Thr Thr
            20                  25                  30
Arg Ala Asp Trp Arg Thr Gln Leu Pro Gln Gly Glu Leu Ile Arg Gly
        35                  40                  45
Arg His Cys Glu Pro Asp Ser Phe Lys Asp Trp Arg Leu Thr Glu Ile
    50                  55                  60
```

<210> 24065
<211> 134
<212> PRT
<213> A.fumigatus

<400> 24065
```
Val Pro Ile Arg Gly Ala Arg Arg Leu Trp Arg Arg Gln Ala Gly Asn
```

```
1               5                   10                  15
Val Leu Ser Glu Asn Gly Arg Val Val Ile Thr Tyr Gly Gly Gly His
            20                  25                  30
Thr Met Ser Asn His Arg Arg Glu Arg Val Met Glu Asp Val Arg Arg
        35                  40                  45
Gln Ser Gln His Phe Val Gly Asp Gly Ala Tyr Phe Asp His Asp Arg
    50                  55                  60
Leu Phe Asn His Leu Val Asp Glu Gly Trp Val Leu Val Gln Gly Glu
65                  70                  75                  80
Pro Met Ala Asp Ala Ala Gly Val Glu Glu Asn Gly Val His Gln Ile
                85                  90                  95
Val Val Gly Arg Val Pro Val Ser Gln Gly Leu Thr Gly Val Glu Lys
            100                 105                 110
Glu Gly Asp Ser Gln Val Gln Val Leu Ser Leu Leu Pro Glu Pro Asp
        115                 120                 125
Gln Phe Gly Gly Gln Val
    130
```

<210> 24066
<211> 127
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (81)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24066

```
Arg Asp Trp Gly Arg Ile Pro Arg Gly Val Trp Ser Gly Arg Tyr Pro
1               5                   10                  15
Asp Gln Leu Gly Ala Asp Arg Gly Asp Phe Lys Pro Gly Ile Val Gly
            20                  25                  30
Arg Leu Ser Arg Gly Arg His Gln Thr Gly Gly Asn Pro Gln Arg Trp
        35                  40                  45
Phe Gln Arg Lys Met Val His Thr Gly Gln Glu Asp Ile Asp Pro Asn
    50                  55                  60
Leu Glu Phe Trp Trp Asn Val Met Ile Glu Glu Ile Glu Lys Phe Gln
65                  70                  75                  80
Xaa Thr Glu Lys Gly Lys Asn Phe Trp Gly Ala Arg Val Ile Trp Ser
                85                  90                  95
Asp Thr Arg Ser Lys Asn Arg Glu Lys Ile Thr Gln Ser Lys Ser Ala
            100                 105                 110
Phe Arg Val Thr Ile Arg Gly Asn Leu Thr Asn Arg Ser Gln Ala
        115                 120                 125
```

<210> 24067
<211> 170
<212> PRT
<213> A.fumigatus

<400> 24067

```
Pro Val Ser Gly Met Lys Ile Ala Leu Glu Arg Lys Gln Arg Phe Pro
1               5                   10                  15
Glu Leu Phe Ser Gly Tyr Asp Leu Val Ala Gln Glu Asp Leu Gly Arg
            20                  25                  30
```

```
Pro Leu Ser Asp Leu Ala Pro Glu Leu Ile Trp Phe Arg Glu Gln Thr
        35                  40                  45
Glu Tyr Leu Asn Leu Thr Ile Pro Phe Phe Phe His Ala Gly Glu Thr
    50                  55                  60
Leu Gly Asp Gly Asn Ser Thr Asp Tyr Asn Leu Val Asp Ala Ile Leu
65                  70                  75                  80
Phe Asn Ser Arg Arg Ile Gly His Gly Phe Ser Leu Tyr Lys His Pro
                85                  90                  95
Thr Leu Ile Asp Glu Val Ile Glu Lys Ala Val Met Val Glu Val Cys
            100                 105                 110
Pro Ile Ser Asn Glu Val Leu Arg Leu Ala Thr Asp Ile Leu His His
        115                 120                 125
Pro Leu Pro Ala Met Ile Ala His Gly Val Pro Thr Ala Ile Ser Asn
    130                 135                 140
Asp Asp Pro Ala Ile Leu Gly Gln Asp Ile Pro Gly Leu Ser Ser Pro
145                 150                 155                 160
Gln Ala Pro Ser Thr Ala Asn Arg Asn Ser
                165                 170
```

<210> 24068
<211> 135
<212> PRT
<213> A.fumigatus

<400> 24068

```
Arg Pro His Glu Asp Arg Ala Arg Pro Cys Pro Pro Arg Pro Lys His
1               5                   10                  15
Arg Phe Pro Pro Pro His Arg Pro Leu Gln Leu Pro Glu Pro His Ala
            20                  25                  30
Arg Gly Pro Arg Cys Gly Gly Pro Pro Pro Gly Tyr Leu Glu His Leu
        35                  40                  45
Pro Arg Pro Arg Asn Ser Ala Thr Gly Gly Gly Arg Ser Arg Gln Glu
    50                  55                  60
Ile Arg Arg Arg Asp Pro Leu Arg Gly Pro Arg Ala Cys Arg Phe Lys
65                  70                  75                  80
Arg Gly Phe Leu Pro Pro Gly Leu Pro Asn Arg Leu Pro Ala Ser Arg
                85                  90                  95
Lys Thr Gly Arg Leu Ala Asp Arg Val Asn Asp Ser Ala His Pro Ala
            100                 105                 110
Leu Val Ala Gly Glu Pro Gly Asp Cys Arg Gly Ala Val Ala Asp Trp
        115                 120                 125
Arg Arg Ala Ala Arg His Ala
    130                 135
```

<210> 24069
<211> 223
<212> PRT
<213> A.fumigatus

<400> 24069

```
Leu Pro Tyr Val Arg Ala Asp Pro Gly Ser Ser Arg Gly Glu Asp Leu
1               5                   10                  15
Met Lys Ile Ala Arg Asp His Ala Arg Leu Asp Pro Asn Ile Asp Ser
            20                  25                  30
His Leu Arg Thr Gly Arg Phe Ser Tyr Leu Asn Arg Thr Leu Glu Asp
        35                  40                  45
```

```
Leu Val Ala Glu Val Leu Arg Gln Asp Thr Ser Ser Thr Ser Pro Val
    50                  55                  60
Pro Glu Thr Ala Pro Gln Ala Glu Ala Glu Ala Asp Arg Arg Phe Asp
65                  70                  75                  80
Val Val Thr Leu Phe Glu Val Leu Glu His Val Asp Ser Ser Ala Gly
                85                  90                  95
Ser Ser Pro Leu Ala Phe Leu Thr Asp Cys Leu Arg Leu Val Arg Pro
            100                 105                 110
Gly Gly Trp Leu Ile Gly Ser Thr Ile Ala Arg Thr Leu Pro Ser Trp
        115                 120                 125
Leu Val Asn Gln Val Ile Ala Glu Ala Pro Trp Pro Ile Gly Val Val
    130                 135                 140
Pro Arg Gly Thr His Glu Trp Ser Lys Phe Val Asn Pro Asp Glu Leu
145                 150                 155                 160
Glu Gly Trp Met Gln Glu Gly Leu Met Arg Ser Ser Asp Gly Ala Ala
                165                 170                 175
Ala Arg Ala Gly Ser Glu Ala Leu Gln Gly Met Lys Trp Lys Cys Thr
            180                 185                 190
Gly Val Met Tyr Phe Pro Gly Leu Gly Trp Lys Leu Ile Pro Gly Ser
        195                 200                 205
Glu Ser Trp Gly Asn Tyr Phe Trp Ala Val Arg Lys Gly Gly Tyr
    210                 215                 220
```

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<210> 24070
<211> 154
<212> PRT
<213> A.fumigatus

<400> 24070

```
His Pro Cys Ile Ser Thr Ser Tyr Pro Ala Ala Pro His Cys Pro His
1               5                   10                  15
Ala Pro Gln Pro His Pro Asn Ser Ser Ser Thr Pro Pro Ala Ser Thr
            20                  25                  30
Pro Pro Val His Leu Asp Ser Arg Thr Cys Ser Ile His Ala Cys Arg
        35                  40                  45
Ala Ala Arg Arg Gln Ser Ala Thr Ala Pro Arg Gln Ser Pro Gly Ser
    50                  55                  60
Pro Ala Thr Arg Ala Gly Cys Ala Leu Ser Leu Thr Arg Ser Ala Ser
65                  70                  75                  80
Arg Pro Val Leu Arg Asp Ala Gly Ser Leu Leu Gly Arg Pro Gly Gly
                85                  90                  95
Arg Asn Pro Arg Leu Asn Arg His Ala Arg Gly Pro Arg Arg Gly Ser
            100                 105                 110
Arg Arg Arg Ile Ser Cys Leu Leu Arg Pro Pro Pro Val Ala Leu Phe
        115                 120                 125
Arg Gly Arg Gly Arg Cys Ser Arg Tyr Pro Gly Gly Gly Pro Pro Gln
    130                 135                 140
Arg Gly Pro Arg Ala Cys Gly Ser Gly Ser
145                 150
```

<210> 24071
<211> 337
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (333)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24071

```
Ile Pro Ser Pro Ala Glu Ser Leu Pro Ile Ala Val Arg Met Ser Ser
1               5                  10                  15
Leu Ser Gln Gly Asp Ser Pro Ser Leu Thr Ala Thr Ala Ser Ser Ser
            20                  25                  30
Ser Ser Ser Ser Thr Ser Gly Ser Arg Thr Pro Lys Ala Asn Asn Ser
        35                  40                  45
Phe Asn Gln Ser Ala Ala Ser Tyr Phe Ser Tyr Pro Val Thr His Val
    50                  55                  60
Val Ser Gly Leu Tyr Arg Arg Leu Thr Glu Pro Asn Ile Thr Lys Ala
65                  70                  75                  80
Ser Arg Lys Asp Ser Asn Ser Pro Asn Arg Lys Met Asn Ala Arg Asn
                85                  90                  95
Asn Arg Asp Ser Ser Thr Thr Ser Pro Asp Ile Phe Val Pro Ile Arg
            100                 105                 110
Thr Ala Ser Pro Phe Gln Pro Pro Pro Leu Thr Pro Leu Thr Leu Thr
        115                 120                 125
Pro Gly Pro Gly Val Pro Gln Gln Gln Leu Leu Thr Arg Ala Leu Ala
    130                 135                 140
Glu Glu Ile Arg Leu Leu Val Pro Ala Arg Leu Gln Leu Val Asp Thr
145                 150                 155                 160
Trp Arg Leu Ala Tyr Ser Leu Asp Arg Asp Gly Ala Ser Leu Ser Thr
                165                 170                 175
Leu Tyr Glu His Cys Arg Asp Phe Ser His Arg Ser Pro Arg Ala Gly
            180                 185                 190
Tyr Val Leu Ile Val Arg Asp Ser Ser Pro Ala Gly Ala Val Phe Gly
        195                 200                 205
Ala Tyr Met Thr Asp Pro Pro His Pro Asp Ser His Tyr Phe Gly Thr
    210                 215                 220
Gly Glu Cys Phe Leu Trp Arg Ala Ser Val Leu Pro Ser Pro Ser Asn
225                 230                 235                 240
Leu Leu Asn Ile Asn Gly Pro Gln Ser Glu Glu Met Leu Glu Arg Ala
                245                 250                 255
Gly Leu Pro Leu Pro Pro Ser Ala Asp Thr Thr His Ala Gly Arg Ser
            260                 265                 270
Thr Thr Leu Arg Gly Asp Ser Arg Gly His Gly Asp Gly Arg Leu Ala
        275                 280                 285
Ala Pro Arg Ala Asn Gly Gly Thr Gly Ala Gly Ala Ala Ser Gly Ala
    290                 295                 300
Ser Thr Pro Glu Arg Ile Arg Phe Lys Ala Phe Pro Tyr Ser Gly Val
305                 310                 315                 320
Asn Asp Tyr Met Met Phe Cys Glu Thr Gly Phe Leu Xaa Leu Gly Gly
                325                 330                 335
Gly
```

<210> 24072
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24072

```
Ala Lys Ala Ser Arg Glu Val Ala Val Asn Lys Pro Leu Arg Arg Gln
1               5                  10                  15
Val Thr Ala Leu Arg Glu Leu Lys Thr Lys His Ala Asp Lys Ala Ser
            20                  25                  30
Thr Trp Pro Ile Leu Leu Gly Asn Asn Phe Leu Cys Leu Leu Ala Val
        35                  40                  45
Asp Ala Tyr Gln Thr Ile Ala Glu Asp Phe Ala Asp Leu Ile His Pro
    50                  55                  60
Phe Arg Phe Asn Gln Ala Gln Gln Ala Ala Ile Thr Arg Leu Arg Ala
65                  70                  75                  80
Leu Pro Gly Gly Val Gly Ile Ile Gln Gly Pro Pro Gly Thr Arg Lys
                85                  90                  95
Thr Tyr Gly Gln Cys Asp His Pro Ser Cys Phe Ser Leu Pro Thr Thr
            100                 105                 110
Val Ile Leu Thr Gly Gly His His His Ile Met Leu Thr Arg Ala Val
        115                 120                 125
Asp Arg Gly Arg Ser Arg Ser Pro Gly Arg Asp
    130                 135
```

<210> 24073
<211> 227
<212> PRT
<213> A.fumigatus

<400> 24073

```
Phe Pro Arg Phe Lys Arg Gly Ser Ala His Pro Arg Gly Glu Asp Ser
1               5                  10                  15
Ser Ser Gly Cys Val Asp Ser Pro Asn Ser Pro Pro Ser Glu Ile Leu
            20                  25                  30
Glu Asn Met Ser Leu His Gly Gly Ser Ser Pro Lys Glu Asn Met Pro
        35                  40                  45
Ala Phe Ile Gln Pro Asn Phe Ser Leu Pro Pro Ser Ala Phe Thr Phe
    50                  55                  60
Thr Pro Pro Ala Ser Pro Arg Gln Ser Leu Gly Asn Gln Pro Ser Pro
65                  70                  75                  80
Ala Gln Ser Arg Arg Ser Leu Thr Pro Ser Ser Glu Asp Glu Met Leu
                85                  90                  95
Pro Leu Ser Pro Ser Lys Arg Pro Leu Glu Lys Ile Val Glu Glu Pro
            100                 105                 110
Ser Leu Pro Phe Thr Ser Ser Ala Asp Pro Tyr Thr Asp Ile Ala Ala
        115                 120                 125
Ser Thr Ala Glu Leu Ser Ser Pro His Thr Ala Pro Thr Leu Ala Asp
    130                 135                 140
Ser Ser His Gly Ser Asp Leu Asp Ile Phe Ile Ser Thr Asp Ser Ser
145                 150                 155                 160
Ala Asn Phe Lys His Glu Phe Pro Asp Leu Ser Asp Pro Asp Met Ala
                165                 170                 175
Ala Phe Pro Asp Tyr Val Asn Gly Ser Thr Phe Glu Pro Gly Met Asp
            180                 185                 190
Leu Phe Ser Ser Lys Thr Phe Ser Ala Gly Thr Ser Met Asn Glu Asp
        195                 200                 205
Phe Phe Ser Leu Gln Phe Gln Val Asp Asp Met Thr Lys Glu Phe Phe
    210                 215                 220
Met Asp Cys
225
```

<210> 24074
<211> 95
<212> PRT
<213> A.fumigatus

<400> 24074
Lys Ile Arg Leu Leu Pro Val Leu Ser Ser Pro Gly Ser Pro Ser Leu
1 5 10 15
Trp Asn Ser Leu Ser Leu Asp Leu Pro Val Val Ile Leu Gln Ser Ile
20 25 30
Ala Met Ala Val Ser Arg Asp Leu Glu Ala Pro Thr Val Val Asn Asp
35 40 45
Pro Thr Ala Asp Asp Ala Val Val Glu Lys Lys Glu Tyr Ala Asp Gly
50 55 60
Thr Pro Ala Asn Asp Pro Phe Gly Asn Glu Glu Cys Gly Glu Gly Leu
65 70 75 80
His His Gly Val Glu Arg Ile Arg Gly Gly Ala Ile Gly Val Gln
85 90 95

<210> 24075
<211> 321
<212> PRT
<213> A.fumigatus

<400> 24075
Tyr Thr Asp Ser Cys Pro Ser Glu Val Leu Arg Ser Ser Arg Gln Gly
1 5 10 15
Tyr Thr Lys Ala Val Asp Leu Trp Ser Leu Gly Cys Val Thr Thr Val
20 25 30
Leu Leu Thr Gly Glu Pro Pro Phe Asn Thr Pro Ser Pro Lys Cys Glu
35 40 45
Thr Ser Gln Gly Asn Arg Gln Gly Ala Leu Asp Ser Leu Glu Ala Asn
50 55 60
Leu Thr Cys Asn Met Ile Gly Lys Arg Ala Lys Asp Phe Val Leu Arg
65 70 75 80
Leu Leu Val Phe Asp Glu Ala Lys Arg Met Asp Val Lys Gln Ala Leu
85 90 95
Gly His Cys Trp Phe Thr Asn Pro Val His Lys Glu Ala Phe Glu Ala
100 105 110
Leu Tyr Lys Arg Ser Ile Arg Asp Trp Lys Pro Arg Ala Pro Lys Glu
115 120 125
Pro Leu Met Val Asp Leu Asp Leu Ile Gln Val Arg Lys Thr Asn Gly
130 135 140
Asp Val Ala Gln Thr His Ser Gln Glu Ser Leu Pro Ser Lys Leu Phe
145 150 155 160
Lys Ser Ala Val Pro Arg Ala Asn Gly Ser Lys Glu Ser Ile Leu Glu
165 170 175
Glu Ser Ser Ser Pro Glu Leu Arg Arg Asp Leu Ser Pro Thr Leu Ser
180 185 190
Asp Pro Glu Leu Pro Pro His Gly Gln Leu Asp Asp Asn Pro His Gln
195 200 205
Ala Tyr Asp Leu Gly Asn Asp Pro Ala Glu Ile Glu Ser Glu Ala Gly
210 215 220
Lys Leu Asp Ala Leu Glu Gln Arg Leu Glu Ser Ser Glu Gln Ser Glu
225 230 235 240
Val Leu Arg Ser Glu Ser Glu Glu Phe Asn Gln Tyr Glu Trp Ala Ile

```
                245                 250                 255
Pro Pro Ile Ile Pro Asn Phe Ser Thr Ala Asn Thr Ala Leu Leu Lys
            260                 265                 270
Asn Ile Asn Asn Ser Ser Thr Arg Lys Lys Arg Ala Ser Asn Thr Trp
        275                 280                 285
Glu Glu Phe Gly Asn Glu Val Tyr Glu Glu Val Lys Asn Ser Ile Thr
    290                 295                 300
Gly Lys Arg His Arg Leu Leu Tyr Gly Ala Asn Phe Val Ala Asn Trp
305                 310                 315                 320
Ser
```

<210> 24076
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24076

```
Ala Asp Val Ile Leu Val Leu Pro Gln Trp Leu Ala Val Asn Gln Gly
1               5                   10                  15
Ser Pro Ala Tyr Arg Gly Asp Lys Leu Ile Ala Gly Ala Tyr His Leu
            20                  25                  30
Ala Gly Lys Pro Gly Thr Ser Gly Ile Gln Asp Gln Leu Ile Ile His
        35                  40                  45
Ser Ile Asp Leu Ser Pro Gln Ile Asn Cys Arg Ser Gln His Ser Ser
    50                  55                  60
Tyr Pro Ile Val Tyr Ala Thr Val Asn Val Ser Phe Pro Leu
65                  70                  75
```

<210> 24077
<211> 164
<212> PRT
<213> A.fumigatus

<400> 24077

```
Tyr Thr His Ser Ala Glu Pro Ser Ser Pro Val Val Lys Thr Val Glu
1               5                   10                  15
Ile Asp Arg Ile Pro Phe Ile Leu Thr Leu Gln Ser Leu Ile Asn Trp
            20                  25                  30
Lys Ala Glu Thr His Ile Gly Val Pro Ser Asp Gln Leu Leu Lys Cys
        35                  40                  45
Ala Gln Cys Gly Pro Ser Ser Ser Tyr Ala Lys Ser Asn Phe Leu His
    50                  55                  60
Leu Leu Leu Leu Leu Ile Gln Pro His Met Gly Gln Ser Val Cys Glu
65                  70                  75                  80
Ser Ala His Pro His Trp Val Ser Ile Gln Ala Phe Ile Asp Arg Phe
                85                  90                  95
Glu Ile Cys Thr Asn Thr Lys Leu Leu Arg Arg Leu Glu Thr Thr Arg
            100                 105                 110
Ile Gln Glu Gly Gly His Gly Arg Pro Asn Ala Leu Tyr Val Val Lys
        115                 120                 125
Lys Asp Ile Asp Thr Lys Val Thr Gln Ser Phe Asp Pro Leu Asp Gln
    130                 135                 140
Ile Ser Gly Pro Phe Ala Val Val Pro Ser Phe Phe Gln Lys Ile Ile
145                 150                 155                 160
Lys Val Ala Val
```

<210> 24078
<211> 150
<212> PRT
<213> A.fumigatus

<400> 24078
Arg Met Gly Gly Ile Ile Gly Ile Glu Ser Lys Val Leu Gln Thr Trp
1 5 10 15
Ala Ile Trp Arg Thr Ser Ser Met Asp Ser Thr Val Arg Ile Pro Ser
20 25 30
Leu Arg Ser Val Trp Phe Cys Gln Tyr Val His His Gly Leu Asp Gly
35 40 45
Asp Leu Asn Asn Leu Leu Lys Lys Ala Gly Asn Asp Arg Lys Arg Thr
50 55 60
Arg Asp Leu Ile Lys Gly Ile Lys Gly Leu Gly Asp Leu Gly Val Asp
65 70 75 80
Ile Phe Leu Asn Asn Val Gln Cys Val Trp Pro Ser Met Ala Pro Phe
85 90 95
Leu Asp Ala Arg Ser Leu Lys Thr Ala Glu Glu Leu Gly Ile Gly Thr
100 105 110
Asp Leu Glu Ala Ile Tyr Glu Ser Leu Asn Arg Asp Pro Met Arg Met
115 120 125
Ser Arg Phe Ala Asn Gly Leu Ser His Val Arg Leu Asp Lys Lys Gln
130 135 140
Gln Glu Val Gln Glu Val
145 150

<210> 24079
<211> 267
<212> PRT
<213> A.fumigatus

<400> 24079
Thr Ile Cys Gly Pro Ser Glu Lys Lys Cys Ser Phe Glu Arg Gly Asn
1 5 10 15
Arg Asn Thr Met Lys His Ser Ser Pro Ala Val Glu Asp Tyr Glu Thr
20 25 30
Asp Gly Thr Pro Val Pro Val Pro Glu Lys Arg Gln Arg Asp Gln Lys
35 40 45
Ile His Glu Thr Ser Asp Arg Asp Asp Ser Glu Gln Pro Pro Asn Lys
50 55 60
Val Ser Lys Ser Ala Ser Glu Glu Ser Ser Ser Lys Asn Glu Asn Lys
65 70 75 80
Ala Asp Pro Asn Leu Asn Ser Lys Gly Trp Asn Lys Asp Asn Lys Gly
85 90 95
Lys Gln Gly Leu Gly Val Lys Thr Ala Ala Lys Gln Asn Gln Lys His
100 105 110
Asp Glu Glu Asp Gly Leu Glu Gly Ala Glu Gly Gln Phe Glu Asp Glu
115 120 125
Glu His Ala Lys Pro Ser Glu Ser Pro Lys Val His Lys Ile Ile Glu
130 135 140
Glu Phe Gly Arg Gln Pro Leu Glu Gly Thr Ser Leu Ala Lys Gly Pro
145 150 155 160
Leu Ile Ala Ser Pro Glu Thr Val Leu Ala Met Val Leu Asp Ala Met

```
                165                 170                 175
Leu Lys Ser Arg Pro Ile Ser His Asp Leu Ser Gln Arg Ala Val Thr
            180                 185                 190
Glu Leu Ile Asp Glu Gly Tyr His Asp Ile Lys Lys Leu Gly Glu Ser
        195                 200                 205
Ser Trp Glu Glu Arg Thr Met Val Leu Lys Asp Gly Gly Tyr Asn Arg
    210                 215                 220
Tyr Arg Glu Gln Gly Ala Thr Asn Leu Gly Asp Leu Ala Asp Phe Val
225                 230                 235                 240
Asn Gly Gln Tyr Gly Thr His Pro Phe Leu Glu Ile Ser Leu Val Leu
                245                 250                 255
Ser Val Cys Ser Pro Arg Ser Arg Arg Arg Pro
            260                 265
```

<210> 24080
<211> 84
<212> PRT
<213> A.fumigatus

<400> 24080

```
Gly Gly Asp Leu Ile Thr Val Val Glu Asp Val Tyr Ile Val Val Ile
1               5                   10                  15
Cys Asp Ile Phe Phe Phe Val Leu Ser Leu Pro Ala Leu Ser Pro Leu
            20                  25                  30
Gln Pro Pro Thr His Asn Ser Ile Ala Pro Pro Leu Ser Ser Leu Tyr
        35                  40                  45
Phe Ser Pro Thr Thr Leu Tyr Trp Leu Cys Phe Pro Leu Thr Asn Leu
    50                  55                  60
Thr Leu Phe Phe Pro Ala Pro Arg His Lys Thr Leu Tyr Phe Ser Leu
65                  70                  75                  80
Cys Val Ser Ala
```

<210> 24081
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24081

```
Glu Arg Val Ile Phe Gln Pro Arg Arg Glu Asp Lys Thr Arg Val Trp
1               5                   10                  15
Val Ser His Tyr Ser Asp Asn Val Thr Val Thr Val Val Trp Phe Ser
            20                  25                  30
Leu Thr Leu Pro Ser Gln Ala Gln Ala Gln Arg Glu Arg Pro Ser Pro
        35                  40                  45
Thr Gly Leu Leu His Pro Ala Gly Asp Glu Gly Gln Tyr Asn Ser Asp
    50                  55                  60
Phe Leu Phe Leu Leu Leu Asn Ser Met Glu Thr Pro Asp Ser Ser Ile
65                  70                  75                  80
```

<210> 24082
<211> 84
<212> PRT
<213> A.fumigatus

<400> 24082

```
Ser Ser Ser Asn Met Lys Pro Leu Thr Tyr Leu Ala Leu Leu Leu Gly
1               5                  10                  15
Ile Ser Ala Thr Thr Ala Phe Ala Ala Leu Arg Pro Asp Ala Thr Pro
            20                  25                  30
Asp Glu Val Ala Ala Ala Glu Ala Glu Cys Gly Ser Leu Gly Val Met
        35                  40                  45
Arg Ile Asp Pro Ala Glu Leu Pro Glu Gly Ile Thr Met Ser Asp Val
    50                  55                  60
Arg Met Cys Ala Asn His Pro Leu Gly Pro Gly Ala Tyr Pro Gly Leu
65                  70                  75                  80
Gly Pro Gly Ala
```

<210> 24083
<211> 179
<212> PRT
<213> A.fumigatus

<400> 24083

```
Gln His Gln Gly Ile His Pro Pro Asn Leu Lys Leu Leu Tyr Gln Asp
1               5                  10                  15
Ser Ser Leu His Lys Ala Ser Arg Pro Leu Lys Met Lys Phe Thr Thr
            20                  25                  30
Pro Ile Ser Leu Ile Ser Leu Phe Val Ser Ser Ala Leu Ala Ala Pro
        35                  40                  45
Thr Pro Glu Asn Glu Ala Arg Asp Ala Ile Pro Val Ser Val Ser Tyr
    50                  55                  60
Asp Pro Arg Tyr Asp Asn Ala Gly Thr Ser Met Asn Asp Val Ser Cys
65                  70                  75                  80
Ser Asn Gly Val Asn Gly Leu Val Thr Lys Trp Pro Thr Phe Gly Ser
                85                  90                  95
Val Pro Gly Phe Ala Arg Ile Gly Gly Ala Pro Thr Ile Pro Gly Trp
            100                 105                 110
Asn Ser Pro Asn Cys Gly Lys Cys Tyr Lys Leu Gln Tyr Glu Gln Asn
        115                 120                 125
Thr Ile Tyr Val Thr Ala Ile Asp Ala Ala Pro Gly Gly Phe Asn Ile
    130                 135                 140
Ala Thr Ser Ala Met Asp Gln Leu Thr Asn Gly Met Ala Val Glu Leu
145                 150                 155                 160
Gly Arg Val Gln Ala Thr Tyr Glu Glu Ala Asp Pro Ser His Cys Ala
                165                 170                 175
Ser Gly Val
```

<210> 24084
<211> 67
<212> PRT
<213> A.fumigatus

<400> 24084

```
Gly Ser Leu Leu Asn Gly Pro Thr Asn Ser Thr Gly Leu Gly Trp Asp
1               5                  10                  15
Gly Val Arg Pro Glu Ala Glu Lys Arg Gly Leu Arg Pro Thr Thr Trp
            20                  25                  30
Gln Asp Trp Glu Arg Ile Asp Lys Ala Glu Arg Glu Arg Gly Gln Gln
        35                  40                  45
```

Lys Gly Lys Ala Arg Asp Lys Phe Gly Arg Val Glu Glu Met Leu Glu
50 55 60
Val Ile Ser
65

<210> 24085
<211> 178
<212> PRT
<213> A.fumigatus

<400> 24085
Val His Val His Phe His Pro Arg Gly Glu Asp Cys Val Ile His Ser
1 5 10 15
Cys Thr Cys Leu Phe Pro Gly Leu Leu Ile Arg Thr Leu Tyr Leu Glu
20 25 30
Pro Ile Ser Val Arg Gly Lys Met Ala Glu Phe Lys Tyr Pro Val Arg
35 40 45
Ser Ala His Leu Asn Arg Lys Ala Ala Gly Val Phe Glu Val Pro His
50 55 60
Leu Pro Pro Trp Ala Gln Ser His Val Gln His Ala Gln Asn Leu Leu
65 70 75 80
Glu Cys Ser Asp Glu Pro Ile Glu Tyr Asp His Asp Asp Glu Asp Tyr
85 90 95
Ser Asp Asn Cys Phe Phe Phe Pro Glu Asp Cys Ser Trp Ser Pro Pro
100 105 110
Pro Asn Trp Val Ile Glu Asp Asp Arg Ser Glu Asp Asp Ile Ala Asp
115 120 125
Gly Thr Asp Ser Glu His Asp Tyr Asp Asn Thr Met Ile Pro Gly Leu
130 135 140
Pro Asp Ile Arg Met Leu Asp Ala Glu Ala Leu Ser Asp Leu Leu Glu
145 150 155 160
Asp Asn Leu Ser Pro Pro Glu Ile Thr Thr Ile Met Tyr Ala Asp Val
165 170 175
Ile Pro

<210> 24086
<211> 229
<212> PRT
<213> A.fumigatus

<400> 24086
His Phe Pro Thr His Arg Val Phe Ala Thr Asn Gly Ala Ile Phe Ala
1 5 10 15
Tyr Ala Ser Ser Leu Ser Ser Arg Gln Leu Arg Asn Leu Ser Ala Thr
20 25 30
Tyr Gly Ala Ala Tyr Thr Cys Tyr Ala Lys Asn Ala Ser Ser Gly Asn
35 40 45
Leu Thr Gly Val Asn Pro Ala Ser His Pro Ser Ser Tyr Val Thr Ala
50 55 60
Gln Ser Val Ser Leu Gly Asp Val Gly Ser Ile Val Phe Glu Leu Asp
65 70 75 80
Asp Ser Val Ala Val Val Thr Arg Ile Ala Asp Lys Val Leu Leu Ala
85 90 95
Ala Val Gly Pro Ser Lys Ser Asp Thr Asp Glu Ala Asp Ser Ala Asp
100 105 110

```
Gly Thr Pro Val His Gln Asn Gly Phe Ala Lys Leu Gly Thr Glu Ala
        115                 120                 125
Thr Ser Ala Thr Glu Ser Asn Ala His Arg Pro Thr Thr Asn Ser Thr
    130                 135                 140
His Thr Asn Gln Ala Pro Ser Thr Thr Thr Ser Thr Pro Thr Ser Ile
145                 150                 155                 160
Ser Arg Asn Glu Ser Lys Ala Asp Val Gln Ala Asp Ala Asp Leu Glu
                165                 170                 175
Thr Gln Tyr Glu Ile Asp Arg Asn Ser Asn Leu Ala Arg Leu Ala Ser
            180                 185                 190
Leu Asn Leu Ser Ala Ser Pro Ser Thr Leu Leu Ala Leu Glu Ser Lys
        195                 200                 205
Ala Ala Ala Leu Gly Arg Phe Leu Ser Gln Lys Leu Ala Asp Phe Glu
    210                 215                 220
Ser Pro Asp Asp Phe
225
```

<210> 24087
<211> 119
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (84)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24087

```
Asp Ser Phe Ser Ser Pro Ser Gly His Ser Ile Arg Arg Val Ala Thr
1               5                   10                  15
Ala Gln Ile Val Pro Thr Pro Thr His Asn Gln Ile Ala Thr Trp Ala
            20                  25                  30
Ile Val Asn Pro Asp Pro Thr His Arg Ile Ala Asp Asp Cys Ser Thr
        35                  40                  45
Cys Pro Ile Arg Ile Val Ala Ser Thr Asn Pro Val Phe Gly Lys Thr
    50                  55                  60
Met Leu Gln Tyr Gly Ser Asp Met Arg Ser Ala Pro Val Pro Ala Asn
65                  70                  75                  80
Thr Arg His Xaa Ala Arg Thr Pro Asp Asn Arg Asn Ala Gln Gly Lys
                85                  90                  95
Lys Leu Ala Leu Ser Pro Thr Lys Glu Ala Pro Pro Thr Arg Arg Ser
            100                 105                 110
Pro Arg Gln Arg Leu Pro Gly
        115
```

<210> 24088
<211> 119
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (35)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24088

```
Pro Gly Ser Leu Cys Leu Gly Leu Arg Arg Val Gly Gly Ala Ser Phe
1               5                  10                  15
Val Gly Asp Lys Ala Ser Phe Leu Pro Cys Ala Leu Arg Leu Ser Gly
            20                  25                  30
Val Leu Xaa Lys Cys Arg Val Leu Ala Gly Thr Gly Ala Leu Arg Met
        35                  40                  45
Ser Leu Pro Tyr Trp Ser Met Val Phe Pro Asn Thr Gly Phe Val Leu
    50                  55                  60
Ala Thr Ile Arg Ile Gly Gln Val Leu Gln Ser Ser Ala Ile Leu Trp
65                  70                  75                  80
Val Gly Ser Gly Leu Thr Met Ala Gln Val Ala Ile Trp Leu Cys Val
                85                  90                  95
Gly Val Gly Thr Ile Trp Ala Val Ala Thr Arg Arg Met Leu Trp Pro
            100                 105                 110
Glu Gly Glu Glu Lys Glu Ser
        115
```

<210> 24089
<211> 183
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24089
Ser Asn Gly Leu Arg Thr Gly Leu Gly Xaa Cys Pro His Ala Ser Lys
1               5                  10                  15
Glu Lys Ala Thr Asp Gly Ser Gln Ser Leu Tyr Ser Asp Gln Ala Met
            20                  25                  30
Ala Ala Gln Ser Ile Arg Phe Leu Ser Val Asn Gln Val Gln Arg Leu
        35                  40                  45
His Gly Leu Trp Ile Ser Pro Thr Ala Gln Pro Val Gln Leu Pro Leu
    50                  55                  60
Leu Glu Ser Ala Ile Asn Ser Pro Met Asn Leu Lys His Tyr Gly Asn
65                  70                  75                  80
Gln Gly Asp Val Phe Gln Leu Ala Ala Asn Leu Ser Glu Lys Ile Met
                85                  90                  95
Lys Asn His Ala Tyr Gln Asp Gly Asn Lys Arg Thr Ala Leu Leu Ala
            100                 105                 110
Ala Asp Ile Phe Leu Lys Ile Asn Gly Tyr Arg Leu Gln Lys Val Pro
        115                 120                 125
Phe Ala Asp Asp Pro Ile Asn Lys Gly Leu Ala Asn Ala His Val Ala
    130                 135                 140
Val Val Thr Asn Gln Trp Thr Val Asp Gln Leu Gly Asn Phe Tyr Arg
145                 150                 155                 160
Ser Val Ala Lys Pro Leu Glu Gln Phe Thr Pro Asp Ile Glu Glu Phe
                165                 170                 175
Arg Lys Ala Ala Ile Glu Tyr
            180
```

<210> 24090
<211> 92
<212> PRT

<213> A.fumigatus

<400> 24090
Val Thr Ala His Ser Ile Leu Gly Lys Gln Glu Leu Arg Asp Pro Gly
1 5 10 15
Trp Asn Ser Leu Tyr Leu Glu Asn His Asp Gln Ser Arg Cys Val Ser
20 25 30
Arg Phe Gly Asn Pro Asp Pro Arg Tyr Arg Ala Val Ser Ala Lys Met
35 40 45
Leu Ala Thr Ile Gln Leu Ser Leu Arg Gly Thr Pro Phe Ile Tyr Gln
50 55 60
Gly Gln Glu Leu Gly Thr Pro His Pro Gln Asn Trp Lys Ile Glu Asp
65 70 75 80
Tyr Asn Asp Val Glu Thr His Gly Tyr Tyr Asn Ala
85 90

<210> 24091
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24091
Ala Ile Leu Gly Gln Ser Pro Leu Gly Leu Leu Phe Thr Asp Ala Phe
1 5 10 15
Tyr Ser Gln Tyr Lys Ala Arg Lys Glu Lys Asp Pro Ser Lys Glu Pro
20 25 30
Asp Met Ser Asp Val Met Asp Val Ile Arg Leu Lys Gly Arg Asp Asn
35 40 45
Ala Arg Ser Pro Ile Met Trp Asn Asn Ala Pro Asn Ala Gly Phe Thr
50 55 60
Ser Pro Asp Ala Lys Pro Trp Leu Arg Met Asn Asp Glu Tyr Ala Asn
65 70 75 80
Ile Asn Val Gln Ala Gln Thr Arg Asp Pro Asp Ser Val Leu Asn Tyr
85 90 95
Tyr Lys Lys Leu Leu His Ile Arg Lys Gln His Pro Leu Met Val
100 105 110

<210> 24092
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24092
Glu Met Pro Cys Gly Val Asp Glu Tyr Glu Ser Ser Gln Tyr Val Ala
1 5 10 15
Lys Glu Arg Gln Glu Leu Ser Met Val Phe Gln Phe His His Met Asp
20 25 30
Leu Asp Gly Glu Asn Gly Asp Lys Trp Lys Pro Arg Lys Trp Glu Leu
35 40 45
Trp Glu Phe Glu Lys Val Phe Arg Ile Trp Gln Gln His Met Leu Gly
50 55 60
Asn Asn Gly Arg
65

<210> 24093
<211> 211

<212> PRT
<213> A.fumigatus

<400> 24093
Val Ala Ile Leu Asn Ser Val Leu Gly Phe Phe Gly Tyr Ser His Phe
1 5 10 15
Thr Gly Gly Phe Ala Gly Gly Leu Ser Glu Phe Val Arg Val Pro Tyr
20 25 30
Gly Asp Val Asn Leu Leu Asn Leu Pro Asp Asp Val Pro Asp Glu Lys
35 40 45
Gly Leu Tyr Leu Ser Asp Val Leu Gly Thr Ser Trp Asn Ala Val Val
50 55 60
Asp Thr Gly Val Lys Glu Gly Asn Thr Val Ala Ile Trp Gly Ala Gly
65 70 75 80
Pro Val Gly Gln Met Ala Ala Glu Tyr Ser Phe Phe His Gly Ala Lys
85 90 95
Arg Val Ile Leu Ile Asp Gly Gly Gln Gly Lys Trp Arg Leu Asp Phe
100 105 110
Ile Lys Lys Ile Leu Pro Lys Leu Glu Thr Ile Asp Phe Ala Asn Leu
115 120 125
Pro Lys Gly Glu Ser Val Pro Ser Thr Leu Lys Lys Met Cys Asp Gly
130 135 140
His Gly Pro Asp Val Ala Ile Glu Cys Ala Ala Gly Glu Tyr Glu Lys
145 150 155 160
Gly Trp Ala His Tyr Phe Gln Arg Leu Leu Gly Met Glu Thr Asp Thr
165 170 175
Ser Glu Leu Val Asn Glu Met Leu Met Ser Val Arg Gly Phe Gly His
180 185 190
Cys Gly Ile Thr Gly Val Tyr Ala Gly Tyr Val Arg Gly Thr Phe Phe
195 200 205
Met Val Arg
210

<210> 24094
<211> 101
<212> PRT
<213> A.fumigatus

<400> 24094
Asp Lys Ser Ala Asp Asp Ile Ile Gln Cys Asn His Phe Asp Ile Gly
1 5 10 15
Ala Leu Met Glu Cys Gly Ile Lys Leu His Gly Asn Gly Gln Ala Pro
20 25 30
Val Gln Lys Tyr Trp Lys Glu Leu Leu Arg Tyr Ile Gln Glu Asp Lys
35 40 45
Ile His Pro Leu Asp Met Val Thr His Arg Phe Lys Leu Glu Asp Met
50 55 60
Glu Lys Val Tyr Asp Leu Phe Asp Lys Arg Glu Gln Gly Met Gln Lys
65 70 75 80
Val Phe Ile Gln Thr Arg Phe Ser Ala Pro Pro Ser Pro Gly Ser Arg
85 90 95
Pro Leu Thr Val Leu
100

<210> 24095
<211> 383

<212> PRT
<213> A.fumigatus

<400> 24095

```
Arg Pro Gly Ala Gly Gly Met Leu Met Asp Pro Ala Ala Ile Asp Ala
1               5                  10                  15
Leu Thr Lys Asp Gln Arg Ala Leu Phe Lys Gln Gln Leu Glu Ile Ile
            20                  25                  30
Ala Arg Tyr Leu Lys Met Asp Leu Arg Ala Gly Gln Lys Ala Phe Ile
        35                  40                  45
Ala Ser Gln Glu Thr Gln Asn Ala Leu Gln Ala Gln Leu Asp Leu Trp
    50                  55                  60
Gln Ala Glu His Gly Asp Val Tyr Ala Ser Gly Ile Glu Pro Ala Phe
65                  70                  75                  80
Asp Ser Leu Lys Ala Arg Val Tyr Asp Ser Ser Trp Asn Trp Ala Arg
                85                  90                  95
Gln Asp Ala Leu Ser Met Tyr Tyr Asp Ile Ile Phe Gly Arg Leu Lys
            100                 105                 110
Val Val Asp Arg Glu Ile Val Ser Gln Cys Ile Arg Ile Met Asn Arg
        115                 120                 125
Ser Asn Pro Leu Leu Leu Asp Phe Met Gln Tyr His Ile Asp Asn Cys
    130                 135                 140
Pro Thr Glu Arg Gly Glu Thr Tyr Gln Leu Ala Lys Glu Leu Gly Gln
145                 150                 155                 160
Gln Leu Ile Glu Asn Cys Lys Glu Val Leu Gly Val Ala Pro Val Tyr
                165                 170                 175
Lys Asp Val Ala Ile Pro Thr Gly Pro Gln Thr Thr Ile Asp Ala Arg
            180                 185                 190
Gly Asn Ile Ala Tyr Lys Glu Val Pro Arg Ala Ser Ala Arg Lys Leu
        195                 200                 205
Glu His Tyr Val Lys Gln Met Ala Glu Gly Gly Pro Ile Ser Glu Tyr
    210                 215                 220
Ser Asn Arg Thr Lys Val Gln Asn Asp Leu Lys Asn Val Tyr Lys Leu
225                 230                 235                 240
Ile Arg Lys Gln His Arg Met Ser Lys Ser Ser Gln Leu Gln Phe Asn
                245                 250                 255
Ala Leu Tyr Lys Glu Val Ile Arg Ala Leu Ser Met Asn Glu Asn Gln
            260                 265                 270
Ile Met Pro Gln Glu Asn Gly His Ser Lys Lys Ala Gly Arg Asn Gly
        275                 280                 285
Val Lys Arg Asn Gly Ser Pro Arg Ala Gly Lys Val Glu Thr Ile Pro
    290                 295                 300
Phe Leu His Leu Lys Lys Lys His Glu His Gly Trp Glu Tyr Asn Lys
305                 310                 315                 320
Lys Leu Thr Gly Ile Tyr Leu Asp Val Leu Glu Ser Ala Ala Arg Ser
                325                 330                 335
Gly Leu Thr Phe Gln Gly Lys Asn Val Leu Met Thr Gly Ala Gly Ala
            340                 345                 350
Gly Ser Ile Gly Thr Glu Val Leu Gln Arg Leu Ile Thr Gly Gly Ala
        355                 360                 365
Lys Val Ile Val Thr Thr Ser Arg Phe Ser Arg Glu Val Thr Glu
    370                 375                 380
```

<210> 24096
<211> 106
<212> PRT

<213> A.fumigatus

<400> 24096
Ala Ala Val Val Val Asp Val Ser Leu Ser Pro Ser Lys Ser Ser Leu
1 5 10 15
Ala Ser Leu Pro Leu Asn Gln Pro Thr Tyr Asn Val Trp Thr Gln Leu
20 25 30
Met Asp Pro Asn Ser Ser Thr Asp Met His Ser Ser Asn Ser Ser Thr
35 40 45
His Gln Ser Thr Pro Ala Ser Leu Gln Ser Gln Thr Gly Ser Ile Val
50 55 60
Val Val Gly Glu Ala Gly Ile Arg Leu Ser Ile Val Pro Asp Gly His
65 70 75 80
Pro Gln Gly Gly Asn Asp Cys Thr Ile Leu Glu Arg Lys Thr Gly Ala
85 90 95
Ser Leu Leu Thr Asp Leu Ile Val Ser Ala
100 105

<210> 24097
<211> 213
<212> PRT
<213> A.fumigatus

<400> 24097
Asp Leu Pro Asp Leu Pro Thr Ala Thr Ser Pro Leu Asp Ser Ala Ile
1 5 10 15
Asn Gly Leu Lys Phe Phe Ser Lys Leu Gln Leu Pro Pro Gly Asn Trp
20 25 30
Gly Cys Glu Tyr Gly Gly Pro Met Phe Leu Leu Pro Gly Val Val Ile
35 40 45
Ala Trp Val Val Thr Glu Thr Pro Ile Pro Gln Ala Tyr Ala Ile Glu
50 55 60
Ile Lys Asn Tyr Leu Met Ala Arg Ala Asn Pro Val Asp Gly Gly Trp
65 70 75 80
Gly Leu His Ser Glu Gly Asp Ser Ser Val Phe Gly Thr Ser Leu Asn
85 90 95
Tyr Thr Val Leu Arg Leu Leu Gly Val Asp Ser Glu His Pro Val Met
100 105 110
Val Gln Ala Arg Gly Leu Leu His Arg Leu Gly Gly Ala Leu Asn Ala
115 120 125
Pro His Trp Ser Lys Phe Trp Leu Ala Val Leu Gly Val Cys Asp Trp
130 135 140
Glu Val Val Asn Pro Val Pro Pro Lys Ala Trp Leu Leu Pro His Trp
145 150 155 160
Val Pro Val Ala Pro Trp Glu Met Val Gly Ala Tyr Pro Ala Ser Pro
165 170 175
Ser Ser Arg Cys Arg Gly Ser Gly Leu Lys Arg Trp Lys Ala Ala Gly
180 185 190
Asn Gly Thr Leu Leu Arg Gly Pro Ala Asn Gly Asn Leu Phe Val Pro
195 200 205
Pro Leu Gly Ile Asn
210

<210> 24098
<211> 119
<212> PRT

<213> A.fumigatus

<400> 24098
Lys Lys Lys Val Arg Asp Arg Arg Ile Thr Glu Asn Ile Val Lys Tyr
1 5 10 15
Glu Asp Thr Arg Glu Asp Gly Ile Lys Gly Glu Thr Ala Glu Met Pro
20 25 30
Ala Glu Phe Gly Met Cys Tyr Glu Lys Thr Glu Leu Asn Gly Trp Ser
35 40 45
Phe Phe Asn Gln Leu Thr Asn Lys Gln Glu Met Ala Ile Ser Pro Ala
50 55 60
Ala Leu Asp Arg Tyr Arg Thr Lys Asn Lys Leu Ser Asp Ile Glu Asn
65 70 75 80
Thr Glu Ala Ala Leu Lys Gly Lys Ser Leu Thr Gly Leu Lys Leu Arg
85 90 95
Ala Ala Ala Thr Thr Ile Leu His Glu Met Thr His Phe Tyr Ser Leu
100 105 110
Phe Gly Ala Gly Lys Thr Gly
115

<210> 24099
<211> 123
<212> PRT
<213> A.fumigatus

<400> 24099
Val Arg Leu Gln Pro Leu Ser Ile His Ser Glu Cys Thr Asn Cys Leu
1 5 10 15
Leu Met His Ser Asp Asp Val Leu Arg Ala Val Lys Ser Leu Gly Pro
20 25 30
Leu Gly Ser Gly Phe Ser Ile Val Gln Val Gly Ser Lys Gln Tyr Ile
35 40 45
Arg Ser Ile Pro Lys Glu Leu Asn Thr Asp Gln Ala Thr Val Leu Glu
50 55 60
Ala Ile Gln Ile Leu Gly Tyr Val Ser Leu Ser Met Leu Gln Leu Asn
65 70 75 80
Leu Asn Trp Thr Lys Ala Arg Ala Gln Thr Val Ile Asp Asp Leu Val
85 90 95
Ala Asp Gly Leu Val Trp Val Asp Thr Gln Gly Glu Glu Asn Glu Tyr
100 105 110
Trp Ser Pro Gln Asn Leu Leu Asp Asp Ser Gly
115 120

<210> 24100
<211> 151
<212> PRT
<213> A.fumigatus

<400> 24100
Ala Asn His Gly Gly Asn Leu Arg Ser Ala His Leu Glu Ser Leu Gln
1 5 10 15
Thr Gln Leu Ser Val Phe Gln Ser Leu Leu His Thr Phe Ala Leu Glu
20 25 30
His Gly Ser Thr Ile Lys Ser Asn Pro Thr Phe Arg Ala Glu Phe Ala
35 40 45
Arg Met Cys Asn Ala Ile Gly Val Asp Pro Leu Ala Ala Ser Asn Val

```
    50                  55                  60
Lys Gly Lys Asn Gly Arg Arg Gly Glu Arg Ala Ser Phe Trp Thr Gln
65                  70                  75                  80
Ile Met Gly Gly Asp Met Asn Asp Phe Tyr Phe Glu Val Ala Val Arg
                85                  90                  95
Val Val Glu Leu Cys Arg Ser Thr Arg Ser Asp Asn Gly Gly Leu Leu
            100                 105                 110
Gly Val Glu Glu Cys Arg Lys Lys Val Gly Lys Gly Lys Ala Ile Gly
        115                 120                 125
Ser Gly Leu Glu Val Thr Glu Tyr Gly Phe Asn Pro Phe Pro Phe Ile
    130                 135                 140
Arg Ser Val Leu Thr Val Phe
145                 150

<210> 24101
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24101
Phe Asn Arg Gly Leu Arg His Ser Gly Trp Ser Gln His Gly His Gly
1               5                   10                  15
His Gln Pro Phe Pro Ala Gly Asn Arg Ala Ser Cys Ser Gly Leu His
            20                  25                  30
Tyr Ile Ser Ser Leu Arg Glu Phe Pro Glu Leu Ile Glu Asn Met Glu
        35                  40                  45
Val Gln Leu Gln Phe Glu Lys Tyr Asn Val Arg Arg Gly Ala Pro Asp
    50                  55                  60
Tyr His Phe Pro Glu
65

<210> 24102
<211> 79
<212> PRT
<213> A.fumigatus

<400> 24102
Glu Gly Gln Met Ser Gln Arg Pro Thr Ser Ser His Asp Ser Ser Ala
1               5                   10                  15
Pro His His Ile Pro Val Asp Asp Cys Leu Thr Tyr Asp Thr Gly Tyr
            20                  25                  30
Arg Pro Asn Leu Pro Gly Gln Arg Thr Trp Trp Val Phe Cys Pro Val
        35                  40                  45
Thr Gly Ala Phe Asp Asn Ser Tyr Ala Leu Leu Gly Ala Met Ile Glu
    50                  55                  60
Cys Val Ala Arg Gly Lys Ala Thr Leu Gly Thr Gly Leu Gly Thr
65                  70                  75

<210> 24103
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24103
Leu Glu Val Arg Tyr Phe Glu Gln Gly Arg Val Glu Lys Arg Glu Glu
1               5                   10                  15
```

```
Arg Arg Ala Gly Tyr Pro Lys Asp Asn Gly Asp Gly Glu Lys Asn Val
            20                  25                  30
His Phe Glu Gln Thr Ser Tyr Glu Ile Tyr Ile Cys Arg Glu Gln Arg
        35                  40                  45
Asn Glu Thr His Ser Val Asp Ile Arg His Tyr Phe Gly Thr Ser Arg
    50                  55                  60
Gln Asp Gly Asp Val Leu
65                  70
```

<210> 24104
<211> 92
<212> PRT
<213> A.fumigatus

<400> 24104

```
Pro Thr Cys Lys Ala Lys Lys Trp Pro Asn Phe Val Ser Ile Gly Leu
1               5                   10                  15
Arg Asn Glu Leu Arg Gln Pro Ser Thr Ser Asn Thr Gln Tyr Pro Tyr
            20                  25                  30
Asn Trp Gly Thr Trp Tyr Thr Gln Val Thr Thr Ala Ala Lys Arg Val
        35                  40                  45
Asn Ala Ala Asn Pro Asp Ala Leu Ile Phe Leu Ser Gly Leu Asn Tyr
    50                  55                  60
Asp Thr Thr Leu Ala Pro His Pro Asp Ser Ile Gly Ser Arg Gln Arg
65                  70                  75                  80
Gly Glu Val Pro Ser Leu Arg Leu Gln Leu Cys Glu
                85                  90
```

<210> 24105
<211> 152
<212> PRT
<213> A.fumigatus

<400> 24105

```
Gly Gly Asp Ala Thr Val Gln Asn Ser Leu Ile Tyr Ala Leu Gly Ser
1               5                   10                  15
Thr Asn Gly Thr Lys Val Phe Asp Gln Ile Arg Lys Val Asn Pro Gln
            20                  25                  30
Ile Lys Ser Thr Thr Thr Arg Leu Glu Val Phe Asp Met Val Ala Ala
        35                  40                  45
Glu Cys Asn Lys Gln Gly Leu Tyr Ile His Leu Asp Asn His Ile Ser
    50                  55                  60
Lys Ala Met Trp Cys Cys Ser Gln Thr Asp Gly Tyr Ala Trp Phe Gly
65                  70                  75                  80
Asp Thr Tyr Phe Asp Val Ala Lys Trp Met Arg Gly Leu Glu Tyr Met
                85                  90                  95
Val Ser His Val Ser His Leu Pro Gln Pro Asp Ala Arg His Ala Asp
            100                 105                 110
Arg Pro Ala Arg Pro Lys Asn Gly Pro Thr Leu Ser Val Ser Asp Cys
        115                 120                 125
Ala Met Ser Phe Ala Ser Pro Pro Gln Ala Thr Arg Ser Thr Arg Thr
    130                 135                 140
Thr Gly Gly His Gly Thr His Arg
145                 150
```

<210> 24106

<211> 142
<212> PRT
<213> A.fumigatus

<400> 24106
Thr Thr Ile Pro Arg Ser Arg Pro Ile Pro Thr Ala Ser Asp Leu Gly
1 5 10 15
Asn Gly Val Arg Phe Arg Leu Ser Asp Phe Ser Phe Ala Asn Lys Leu
20 25 30
Val Leu Glu Leu His Asn Tyr Asp Thr Gly Ala Thr Ser Cys Ser Ala
35 40 45
Leu Ser Gly Ala Leu Trp Asn Ala Gly Phe Lys Ala Gln Asn Ser Ser
50 55 60
Asp Pro Ser Ile Val Asn Pro Met Pro Val Val Leu Thr Glu Phe Gly
65 70 75 80
Phe Leu Gln Asp Ser Thr Thr Trp Lys Asn Val Tyr Ala Ser Cys Leu
85 90 95
Arg Thr Trp Ile Pro Glu Gln Arg Ala Gly Trp Thr Thr Trp Val Ile
100 105 110
Ala Gly Ser Tyr Tyr Ile Arg Gln Gly Thr Gln Asp Met Asp Glu Thr
115 120 125
Trp Gly Lys Ser His Ser Lys Gly Val Ala Val Leu Lys Cys
130 135 140

<210> 24107
<211> 361
<212> PRT
<213> A.fumigatus

<400> 24107
Asp Lys His Asp Ile Leu Arg Thr Ala Phe Arg Gln Ser Glu Asp Asn
1 5 10 15
Ala Gln Ile Leu Pro Arg Thr Thr Gly Ser Gly Asp Cys Ala Ala Leu
20 25 30
Trp Ala Val Leu Thr Leu Ala Ser Met Gln Glu Arg Ser Ile Ala Ala
35 40 45
Thr Arg Gln Met Gly Ala Ser Pro Asn Arg Pro Arg Ser Ser Gln Leu
50 55 60
Tyr Ala Thr Ala Arg Ala Leu Ile Pro Ala Glu Lys Gly Ile His Glu
65 70 75 80
Ile Gly His Val Gln Ala Leu Leu Ile Leu Ser Leu Val Lys Leu Gly
85 90 95
Gln Gln Glu Trp Lys Asp Ala Trp Val Leu Val Gly Gln Ala Ile Arg
100 105 110
Ile Ala Arg Trp Leu Gly Leu Gly Ser Pro Leu Thr Gly Ser Ala Glu
115 120 125
Asn Glu Lys Gly Ser Ala Arg Ser Lys His Val Phe Leu Gly Cys Phe
130 135 140
Val Leu Glu Thr Leu Ile Ser Ser Lys Thr Gly Gln Ala Pro Ser Leu
145 150 155 160
Arg Lys Glu Asp Leu Val Lys Thr Gly Pro Ile Asn Glu Asp Gly Leu
165 170 175
Glu Glu Trp His Pro Trp Glu Asp Gln Thr Gly Leu Arg Ala Pro Glu
180 185 190
Ser Ser Arg Gly Ser Ser His Arg Gly Pro Leu His Ala Leu Ser Thr
195 200 205

```
Phe Asn Arg Met Val Ser Leu Met Cys Ile Leu Asn Asp Ala Cys Cys
    210                 215                 220
Thr Lys Arg Leu Glu Asn Asn Pro Ala Pro Gln Leu Glu Ala Leu Glu
225                 230                 235                 240
Arg Gln Leu Gln His Trp Val Ser Ala Leu Pro Gly Ser Tyr Arg Val
                245                 250                 255
Asp Leu Gln Ser Pro Thr Arg Leu Ala Ser Pro His Ile Phe Gly Leu
            260                 265                 270
Glu Met Met Phe Glu Ser Ser Val Thr Ala Leu Ser Leu Asp Thr Ile
        275                 280                 285
Arg Gln Gly Asp Lys Arg Leu Ser Asp Leu Arg Lys Thr Arg Ala Ile
    290                 295                 300
Glu Ser Leu Lys Arg Leu Met Leu Leu Leu Gln Lys Tyr Met Glu Thr
305                 310                 315                 320
Tyr Ser Leu Ala Ala Thr Ser Pro Ile Phe Gly Met Leu Leu Thr Phe
                325                 330                 335
Gly Ile Ser Ser Gly Glu Gly Gln Gly Ala Arg Gly Glu Phe Glu Leu
            340                 345                 350
Asp Ile Gly Leu Lys Asn Lys Leu Glu
        355                 360
```

<210> 24108
<211> 126
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (59)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24108

```
Arg Pro Asp Leu Gly Ala Leu Cys Ile Ala Ile Glu Glu Lys Phe Thr
1               5                   10                  15
Asp Lys Leu Ser Gly Ser Gly Ser Val Leu Asp Thr Pro Ala Gly Val
            20                  25                  30
Ser Ser Ser Lys Val Gln Pro Phe Ser Ala Ser Val Ala Asp Gln Gly
        35                  40                  45
Thr Ser Pro Tyr Ala Asp Val Gly Gln Val Xaa Ser Leu Pro Cys Ala
    50                  55                  60
Asn Leu Ser Val Pro Lys Leu Ile Gly Tyr Ala Ala His Leu Ile Asp
65                  70                  75                  80
Asp Val Leu Ala Pro Pro Leu Val His Phe Asn Ile Cys Cys Gly Leu
                85                  90                  95
Trp Lys Arg Asp Asn Leu Val Thr Leu Ala Thr Ser Val Tyr Arg Leu
            100                 105                 110
Ile Gly Ala Gly Val Asn Leu Arg Gly His Asp Cys Gly Ala
        115                 120                 125
```

<210> 24109
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24109

```
Gly Phe Tyr Phe Ser Ser Asp Ala Phe Leu Glu Met His Phe Pro Asn
```

```
1               5                   10                  15
Leu Pro Phe Leu Leu Ala Pro Phe Leu Tyr Asn Val Val Val Ser Gly
            20                  25                  30
Trp Gln Ala Ser Ala Ala Asp Asp Leu Ser Val Leu Ala Thr Glu Thr
        35                  40                  45
Ala Asn Ala Val Phe Thr His Arg Asp Trp Pro Asp Gln Arg His Cys
    50                  55                  60
```

<210> 24110
<211> 195
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(23),(195)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24110

```
Leu Ile Arg Xaa Tyr Glu Ser Met Ser Asp Pro Gly Glu Thr Ala Gln
1               5                   10                  15
Val His Pro Tyr Val Phe Xaa Thr Ser Ile Ala Lys Leu Ala Glu Glu
            20                  25                  30
Lys Gly Ala Glu Ile Lys Leu Gly Ser Val Thr Lys Ile Gly Tyr Ala
        35                  40                  45
Gly Asp Ala Val Glu Ser Val Thr Tyr Asn Asp Lys Glu Ser Gly Glu
    50                  55                  60
Ser Arg Thr Ile Ser Ala Thr Asp Val Ile Ile Ala Ala Gly Pro Trp
65                  70                  75                  80
Thr Arg Thr Val Met Pro Glu Ala Pro Ile Ser Ala Met Arg Ala His
                85                  90                  95
Ser Val Val Ile Arg Pro Thr Lys Pro Val Ser Ala His Thr Leu Phe
            100                 105                 110
Thr Asn Ile Glu Ile Pro Ala Asn Phe Asp Pro Ser Lys Pro Ser Arg
        115                 120                 125
Pro Thr Val Val Ser Pro Glu Ile Tyr Ala Arg Pro Asp Glu Thr Val
    130                 135                 140
Tyr Ala Cys Gly Glu Gly Asp Gln Val Val Pro Leu Pro Lys Thr Thr
145                 150                 155                 160
Ala Asp Val Glu Val Asp Gln Arg Arg Cys Gln Asp Ile Ile Asp Gln
                165                 170                 175
Val Gly Ser Ile Ser Asp Glu Leu Arg Asp Gly Gln Val Cys Ala Arg
            180                 185                 190
Gln Ala Xaa
        195
```

<210> 24111
<211> 65
<212> PRT
<213> A.fumigatus

<400> 24111

```
Tyr Leu Pro Asn Val Ser Val Arg Gly Gly Pro Leu Ile Gly His Thr
1               5                   10                  15
Gly Thr Lys Gly Leu Tyr Leu Ala Ala Gly His Thr Cys Trp Gly Ile
            20                  25                  30
```

```
Gln Asn Ala Pro Gly Thr Gly Lys Leu Ile Ser Glu Phe Phe Phe Asp
        35                  40                  45
Gly Asp Ala Lys Ser Ala Lys Ile Gly Ser Leu Asp Pro Arg Asn Phe
    50                  55                  60
Leu
65
```

<210> 24112
<211> 81
<212> PRT
<213> A.fumigatus

<400> 24112

```
Phe Ala Val Leu Pro Arg Lys Ser Val Gly Asp Asp Thr Tyr His Tyr
1               5                   10                  15
Gly Gly Lys Arg Trp Pro Lys Asn Ala Ala Gly Val Glu Asn Pro Arg
            20                  25                  30
Ala Val Phe Tyr Asp Gly Gly Arg Glu Asn Thr Ile Ser Arg Thr Gly
        35                  40                  45
His Gly Ala Glu Ile Lys Gly Ala Leu Leu Asn His Phe Met Gly Asn
    50                  55                  60
Gly Gly Leu Arg Pro Thr Leu Glu Lys Arg Ala Phe Leu Gly Arg Ser
65                  70                  75                  80
Ala
```

<210> 24113
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24113

```
Arg Ser Thr Thr Ile Thr Ala Gly Asp Lys Thr Phe Leu Val Asn Ser
1               5                   10                  15
Arg Thr Arg Ile Asp Asn Ala Gly Ser Phe Arg Pro Trp Arg Ser Asn
            20                  25                  30
Met Gly Tyr Leu Leu Pro Met Thr Leu Ala Thr Phe Glu Thr Ala Ile
        35                  40                  45
Arg His Thr Leu Thr Ser Ser Cys Ile Gly Phe Leu Gln Thr Ser Ser
    50                  55                  60
```

<210> 24114
<211> 226
<212> PRT
<213> A.fumigatus

<400> 24114

```
Asp Ser Glu Ala Asn Val Asp Glu Tyr Gly Glu Phe Leu His Ile Pro
1               5                   10                  15
Gly Gln Lys Phe Tyr Asp Phe Asn Lys Ile Arg Glu Glu Ile Val Arg
            20                  25                  30
Glu Thr Glu Gln Lys Val Gly Arg Asn Ala Gly Ile Ser Pro Ala Pro
        35                  40                  45
Ile Asn Leu Arg Ile Tyr Ser Pro Asn Val Leu Thr Leu Thr Leu Val
    50                  55                  60
Asp Leu Pro Gly Leu Thr Lys Val Pro Val Gly Asp Gln Pro Lys Asp
```

```
65                  70                  75                  80
Ile Glu Arg Gln Ile Arg Asp Met Val Leu Lys Tyr Ile Ser Lys Pro
                85                  90                  95
Asn Ala Ile Ile Leu Ala Val Thr Ser Ala Asn Gln Asp Leu Ala Asn
            100                 105                 110
Ser Asp Gly Leu Lys Leu Ala Arg Glu Val Asp Pro Glu Gly Gln Arg
        115                 120                 125
Thr Ile Gly Val Leu Thr Lys Val Asp Leu Met Asp Glu Gly Thr Asp
    130                 135                 140
Val Val Asp Ile Leu Ala Gly Arg Ile Ile Pro Leu Arg Leu Gly Tyr
145                 150                 155                 160
Val Pro Val Val Asn Arg Gly Gln Arg Asp Ile Glu Asn Lys Arg Pro
                165                 170                 175
Ile Ser Tyr Ala Leu Glu His Glu Lys Asn Phe Phe Glu Ser His Lys
            180                 185                 190
Ala Tyr Arg Asn Lys Ala Ser Tyr Cys Gly Thr Pro Tyr Leu Ala Arg
        195                 200                 205
Lys Leu Asn Leu Val Cys Ile Ile Gly Arg Ile Ile Ser Pro Trp Ser
    210                 215                 220
Leu Ser
225
```

<210> 24115
<211> 100
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (31)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24115
Ser Lys Cys Ser Pro Ala Asn His Ser Arg Arg Ala Asn Ala Ser Gln
1               5                   10                  15
Thr Pro Gln Leu Asp Phe Glu Glu Pro Ile Ala Ala Leu Gly Xaa Trp
            20                  25                  30
Thr Asp Leu Leu Leu Ser Ile Leu Leu Asp Leu Glu Thr Lys Pro Gly
        35                  40                  45
Asn Ala Ser Pro Arg Gln Ser His Ser Ala Thr Arg Pro Ala Thr Pro
    50                  55                  60
Pro Ile Ile Ala Leu Asp Thr Leu Gly Glu Cys Val Ser Pro Ser Thr
65                  70                  75                  80
Cys Asn Thr Val Ser Gly Gln Leu Ser Glu Glu Arg Thr Arg Thr Val
                85                  90                  95
Pro Gly Ala Val
            100
```

<210> 24116
<211> 326
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (307)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24116

```
Gln Pro Ala Trp Tyr Glu Leu Arg Glu Asp Ala Leu Ser Gln Pro Asp
1               5                  10                  15
Arg Thr Asp Pro Ile Glu Leu Asp Asp Thr Phe Met His Cys Leu Asn
            20                  25                  30
Val Ser Gly Ser Lys Phe Ile Ile Ser Thr Pro Asp Leu Ser Gln Phe
        35                  40                  45
Val Cys Val Asp Leu Pro His Ile Ala Leu Asn Leu Gly Ser Phe Asp
    50                  55                  60
Gly Ile Ser Val Gly Ala Ile Glu Leu Val Thr Ala Ala Asp Leu Gln
65                  70                  75                  80
Gln Tyr Ser Pro Thr Gly Leu Ile Pro Ala Lys Arg Ser Val Arg Asp
                85                  90                  95
Leu Cys Val Leu Ile Tyr Thr Ser Gly Thr Thr Gly Asn Pro Lys Ala
            100                 105                 110
Cys Ala Ile Arg Asn Met Met Asn Met Val Thr Ser Asn Pro Leu Ser
        115                 120                 125
Thr Asp Val Arg Asn Pro Ala Lys Tyr Tyr Pro Leu Arg Thr Tyr Ser
    130                 135                 140
Ser Leu Pro Leu Phe His Gly Thr Ala Tyr Phe Thr Gly Leu Cys Tyr
145                 150                 155                 160
Ser Val Gly Asn Ala Gly Thr Leu Cys Leu Arg Arg Lys Phe Ser Ala
                165                 170                 175
Ser Gln Phe Trp Lys Asp Val His Asp Ser Lys Ala Thr Arg Ile Leu
            180                 185                 190
Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Leu Ala Thr Pro Pro Ser Pro
        195                 200                 205
Tyr Asp Gln Asp His Ala Cys Ile Val Ala Ser Gly Asn Gly Leu Arg
    210                 215                 220
Gly Glu Ile Trp Glu Arg Phe Arg Gln Arg Phe Asn Val Pro Glu Ile
225                 230                 235                 240
Arg Glu Phe Tyr Arg Ser Thr Glu Gly Val Ala Lys Phe Asp Asn His
                245                 250                 255
Gly Val Gly Ala Trp Gly Ala Gly Lys Ile Gly Phe Ser Gly Pro Ile
            260                 265                 270
Arg Arg Ile Leu Gly Gly Arg Pro Ser Ser Ser Trp Lys Ile Asp Pro
        275                 280                 285
Gly Tyr Arg Asp Arg Pro Ala Arg Asp Pro Lys Asp Arg Val Pro Gly
    290                 295                 300
Ser Lys Xaa Gln Leu Gly Pro Arg Arg Lys Arg Pro Met Ala Arg Ile
305                 310                 315                 320
Lys Gly Pro Glu Leu Cys
                325
```

<210> 24117
<211> 160
<212> PRT
<213> A.fumigatus

<400> 24117

```
Thr Ala Ser Val Pro Ile Arg Val Asn Met Val Ser Glu Phe Glu Lys
1               5                  10                  15
His Arg Gln Ser Pro Ser Leu His Ser Val Thr Gln Ile Glu Leu Gly
            20                  25                  30
```

```
Asp Cys Gly Ser Ser Ser Thr Val Cys Gln Ser Arg Tyr Gln Arg Trp
        35                  40                  45
Thr Arg Ser Phe Lys Thr Leu Glu Thr Arg Gly Ile Glu Pro Val Ser
    50                  55                  60
Pro Asp Asp Arg Gln Lys Pro Thr Thr Ser Asp Leu Phe His Met Leu
65                  70                  75                  80
Leu Ile Trp Phe Ser Met Gly Met Ala Val Asn His Met Val Val Gly
                85                  90                  95
Ser Ile Gly Thr Leu Val Met Asn Leu Asn Phe Thr Asp Ala Ala Leu
            100                 105                 110
Cys Ala Val Phe Gly Asn Leu Ile Gly Gly Leu Ala Val Gly Tyr Met
        115                 120                 125
Ser Thr Trp Gly Pro Arg Ser Gly Asn Arg Thr Leu Val Trp Pro Phe
    130                 135                 140
Thr Ile Ser Ser Leu Leu Cys Ser Arg Arg Val Glu Asp Asn Ala Ser
145                 150                 155                 160

<210> 24118
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24118
Ser Arg Gly Arg Lys Lys Arg Ala Met Val Glu Gly Ala Gly Gly Arg
1               5                   10                  15
Gly Leu Phe Arg Gly Asn Gln Arg Asp Leu Thr Ala Arg Asp Ile Gly
            20                  25                  30
Phe Thr Ser Leu Leu Asn Gly Pro Ser Glu Phe Ser Phe Thr Lys Tyr
        35                  40                  45
Val Ile Pro Ala Pro Thr Leu Leu Thr Gly Leu Pro Thr Ala Phe Pro
    50                  55                  60
Asp Tyr His Pro Gly Arg Ile Arg Leu His Leu Ala Asn Ala Glu Gln
65                  70                  75                  80

<210> 24119
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24119
Pro Leu Pro Asp Ala Ala Glu Pro Asp Gly Leu Cys Lys Gln Pro Leu
1               5                   10                  15
Lys Gly Ala Pro Tyr Ala Gln Ile Leu Pro Tyr Ile Lys Lys Gly Ile
            20                  25                  30
Cys Thr Leu Asn Asp Tyr Gln Asp Ile Leu Asp Ile Leu Glu Arg Ala
        35                  40                  45
Phe Gly Asp Pro Asn Arg Val Asn Asn Ala Arg Asn Glu Leu Phe Ser
    50                  55                  60
Leu Arg
65

<210> 24120
<211> 72
<212> PRT
<213> A.fumigatus
```

<400> 24120
Pro Pro Pro Ser Thr Phe Gln Arg Arg Leu Leu Lys Gln Ile Ala Val
1 5 10 15
Ala Gly Leu Ser Val Asn Tyr Leu Val Asn Tyr Phe Cys Leu Pro Val
20 25 30
Ile Gln Tyr Leu Asp Thr Ser Leu Gly Val Asp Thr Val Arg Met Pro
35 40 45
Thr Pro Leu Pro Pro Phe Leu Pro Gly Asp Pro Glu Glu Phe Ser Glu
50 55 60
His Val Ala Ser His Ser Thr Glu
65 70

<210> 24121
<211> 78
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (28),(39)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24121
Val Tyr Phe Ala Phe Thr Trp Pro Phe Ile Ile Lys Phe Leu Arg Trp
1 5 10 15
Val Ser Met Phe Ala Cys Asp Asn Arg Thr Pro Xaa Arg Asn Ile Glu
20 25 30
Tyr Arg Phe Phe Pro Ser Xaa Tyr Pro Glu Phe Arg His Cys Asp Leu
35 40 45
Lys Arg Ser Ala Asp Ile Ala Trp Ala Lys Gln Ala Leu Val Lys Ser
50 55 60
Gln Lys Tyr Ser Ser Leu Cys Ile Val Gln His Ser Met Asp
65 70 75

<210> 24122
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24122
Thr Asp Asn Leu Lys Ile Trp Ser Leu Thr Arg Tyr Gln Leu Arg His
1 5 10 15
Ser Pro Glu Cys Ile Tyr Phe Val Leu Ile Tyr Val Ala Lys Cys Ala
20 25 30
Asn Ser Ser Arg Lys Ala Ser Ser Leu Leu Leu Val His Lys Leu Leu
35 40 45
His Met Gln Ser Cys Asn Lys His Glu Val Pro Cys
50 55 60

<210> 24123
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24123
Leu Ser Val Leu Ile Ala Pro Val Lys Pro Ala Leu Cys Tyr Trp Cys

```
1               5                   10                  15
Thr Asn Cys Tyr Ile Cys Asn His Ala Thr Asn Met Arg Cys Leu Val
            20                  25                  30
Asp Gln Leu Pro Asp Tyr Phe Ser Leu Ser Asn His Val Tyr Tyr Tyr
        35                  40                  45
Ile Arg Asp Thr Glu Ser Tyr Met Ser Asn Tyr Asp Phe Arg Ser Phe
    50                  55                  60
Ser Thr Arg Thr Ser Lys Ser Ser Phe Ile
65                  70
```

<210> 24124
<211> 158
<212> PRT
<213> A.fumigatus

<400> 24124

```
Gln Cys Arg Asn Tyr Lys Asn Tyr Pro Thr Thr Ser Ile Met Asn Thr
1               5                   10                  15
Glu Leu His Gln Val Leu Asn Val Trp Asp Arg Ile Arg Val Asn Ser
            20                  25                  30
Pro Ile Tyr Ala Phe Leu Leu Asn Asp Val Glu Ile Tyr Ser Ala Gln
        35                  40                  45
Lys Gly Lys Ile Asn Ala Arg Val Arg Val Thr Ser His His Leu Asn
    50                  55                  60
Ser Lys Asn Thr Leu His Gly Ala Phe Ser Ala Cys Val Thr Asp Trp
65                  70                  75                  80
Ala Gly Gly Leu Ala Ile Ala Ser Cys Gly His Asp Ser Thr Gly Val
                85                  90                  95
Ser Thr Asp Ile His Val Asn Tyr Met Ser Thr Ala Thr Thr Gly Asp
            100                 105                 110
Trp Leu Glu Ile Glu Gly Cys Ala Asp Lys Val Gly Lys Thr Leu Ala
        115                 120                 125
Phe Thr Thr Val Ile Ile Ser Lys Lys Ser Glu Glu Gly Lys Met Thr
    130                 135                 140
Ile Val Ala Lys Gly Ser His Thr Lys Tyr Leu Arg Thr Thr
145                 150                 155
```

<210> 24125
<211> 215
<212> PRT
<213> A.fumigatus

<400> 24125

```
Pro Ser Arg Ser Arg Ala Ser Ser Thr Thr Ser Ser Pro Arg Arg Thr
1               5                   10                  15
Ser Ser Ser Pro Pro Thr Pro Val Ala Leu Ser Thr Arg Thr Ser Arg
            20                  25                  30
Pro Ser Thr Pro Leu Pro Thr Ala Trp Pro Arg Pro Ser Pro Pro Arg
        35                  40                  45
Ser Leu Ser Pro Ser Pro Thr Ser Pro Leu Ser Cys Pro Leu Ala Leu
    50                  55                  60
Pro Pro Pro Phe Arg Arg Val Ser Thr Pro Thr Arg Thr Pro Pro Ala
65                  70                  75                  80
Leu Pro Ala Leu Leu Pro Leu Leu Pro Leu Pro Leu Arg Pro Arg Pro
                85                  90                  95
Pro Pro Arg Pro Pro Leu Pro Leu Ala Pro Ser Pro Arg Arg Pro Leu
```

```
            100                 105                 110
Pro Pro Leu Ser Ser Pro Pro Val Pro Arg Leu Ala Ala Pro Pro Leu
        115                 120                 125
Pro Pro Pro Pro Pro Leu Pro Pro Pro Arg Ala Ala Pro Ala Pro Ala
    130                 135                 140
Pro Ala Pro Ala Leu Val Leu Pro Leu Pro Pro Pro Ala Pro Thr Ser
145                 150                 155                 160
Ser Pro Leu Ala Pro Pro Ala Arg Ser Thr Ser Ala Thr Pro Ser Ala
                165                 170                 175
Val Pro Ser Ser Arg Pro Pro Ser Pro Ser Leu Ser Lys Arg Pro Leu
            180                 185                 190
Ser Asp Phe Ala Tyr Trp Leu Ser Glu Ser Asn Thr Ser Arg Thr Ala
        195                 200                 205
Asp Gly Gly Lys Ala Pro Gln
    210                 215
```

<210> 24126
<211> 132
<212> PRT
<213> A.fumigatus

<400> 24126

```
Asp Arg Asp Arg His Arg Asp Leu His Cys His Trp His Arg His Arg
1               5                   10                  15
Asp Gly His Phe His Pro Cys His Pro His Arg Tyr Arg Val Trp Gln
            20                  25                  30
Arg Leu Arg Tyr Pro Leu His His Arg Tyr Pro His His Gly Arg Leu
        35                  40                  45
Arg Leu Arg Leu Arg Leu Gln His Trp Tyr Cys His Cys Leu His Gln
    50                  55                  60
His Gln Pro Pro Leu His Trp Arg Arg Gln Gln Gly Ala Leu Gln Leu
65                  70                  75                  80
Leu Pro Arg Arg Cys Arg Arg Arg Gly Arg His Arg Arg Arg Ser Leu
                85                  90                  95
Ser Ala Leu Phe Leu Thr Leu Pro Ile Gly Ser Leu Ser Gln Thr Gln
            100                 105                 110
Val Gly Arg Arg Thr Ala Glu Lys His Pro Asn Asp Ala Asn Gly Thr
        115                 120                 125
Leu Met Thr Asn
    130
```

<210> 24127
<211> 291
<212> PRT
<213> A.fumigatus

<400> 24127

```
Tyr Tyr Pro Ser Leu Val Lys Met Arg Phe Ser Ala Leu Leu Val Thr
1               5                   10                  15
Leu Gly Leu Thr Gly Ala Leu Ala Thr Pro Thr Leu Val Ser Arg Glu
            20                  25                  30
Ala Pro Ala Val Gly Val Ile Ser Asp Ile Ser Ala Gln Thr Ser Ala
        35                  40                  45
Leu Ala Ser Ala Val Ser Ser Tyr Asn Gly Gly Asp Pro Ser Ala Val
    50                  55                  60
Lys Ser Ala Ser Glu Lys Leu Val Ser Thr Ile Asn Ser Gly Val Asp
```

```
65                  70                  75                  80
Thr Val Lys Ser Gly Pro Ala Leu Ser Thr Ala Asp Ala Leu Ala Leu
                85                  90                  95
Thr Ser Pro Val Gln Asp Leu Thr Lys Gln Val Glu Gly Val Ile Asp
            100                 105                 110
Asp Leu Ile Ser Lys Lys Asp Lys Phe Val Ala Ala Asn Ala Gly Gly
        115                 120                 125
Thr Val Tyr Glu Asp Leu Lys Ala Gln Tyr Thr Ala Ala Asp Ser Leu
    130                 135                 140
Ala Lys Ala Ile Ser Ala Lys Val Pro Glu Ser Leu Ser Asp Ile Ala
145                 150                 155                 160
Ala Gln Leu Ser Ala Gly Ile Thr Ala Ala Ile Gln Lys Gly Ile Asp
                165                 170                 175
Ala Tyr Lys Asp Ala Ala Ser Ser Thr Gly Thr Ala Ser Ser Ser Ala
            180                 185                 190
Pro Ala Thr Glu Thr Ala Thr Ala Thr Glu Thr Ser Thr Ala Thr Gly
        195                 200                 205
Thr Val Thr Glu Thr Ala Thr Ser Thr Pro Val Ile Pro Thr Gly Thr
    210                 215                 220
Ala Ser Gly Ser Ala Ser Ala Thr Pro Ser Thr Thr Ala Thr Pro Thr
225                 230                 235                 240
Thr Gly Gly Ser Gly Ser Gly Ser Gly Ser Ser Thr Gly Thr Ala Thr
                245                 250                 255
Ala Ser Thr Ser Thr Asn Leu Leu Ser Thr Gly Ala Ala Ser Lys Glu
            260                 265                 270
His Phe Ser Tyr Ser Leu Gly Gly Ala Val Val Ala Ala Ala Ile Ala
        275                 280                 285
Val Ala Leu
    290
```

<210> 24128
<211> 305
<212> PRT
<213> A.fumigatus

<400> 24128

```
Ala Lys Ser Glu Arg Gly Arg Leu Glu Ser Asp Gly Asp Gly Gly Arg
1               5                   10                  15
Asp Asp Gly Thr Ala Glu Gly Val Ala Glu Val Leu Leu Ala Gly Gly
            20                  25                  30
Ala Ser Gly Glu Glu Val Gly Ala Gly Gly Gly Ser Gly Ser Thr Ser
        35                  40                  45
Ala Gly Ala Gly Ala Gly Ala Gly Ala Ala Arg Gly Gly Gly Ser Gly
    50                  55                  60
Gly Gly Gly Gly Ser Gly Gly Ala Ala Arg Arg Gly Thr Gly Gly Asp
65                  70                  75                  80
Asp Arg Gly Gly Ser Gly Arg Leu Gly Asp Gly Ala Ser Gly Ser Gly
                85                  90                  95
Gly Leu Gly Gly Gly Arg Gly Leu Ser Gly Arg Gly Arg Arg Gly Ser
            100                 105                 110
Ser Ala Gly Arg Ala Gly Gly Val Leu Val Gly Val Asp Thr Leu Leu
        115                 120                 125
Asn Gly Gly Gly Asn Ala Ser Gly Gln Leu Ser Gly Asp Val Gly Glu
    130                 135                 140
Gly Leu Arg Asp Leu Gly Gly Asp Gly Leu Gly Gln Ala Val Gly Ser
145                 150                 155                 160
```

```
Gly Val Leu Gly Leu Glu Val Leu Val Asp Ser Ala Thr Gly Val Gly
                165                 170                 175
Gly Asp Glu Leu Val Leu Leu Gly Asp Glu Val Val Asp Asp Ala Leu
            180                 185                 190
Asp Leu Leu Gly Gln Val Leu Asp Gly Arg Gly Gln Ser Gln Ser Ile
        195                 200                 205
Ser Gly Ala Glu Gly Arg Ala Ala Leu Asp Gly Val Asp Thr Gly Val
    210                 215                 220
Asp Gly Ala Asp Lys Leu Leu Arg Gly Gly Leu Asp Gly Gly Gly Val
225                 230                 235                 240
Thr Thr Val Val Gly Gly Asp Gly Gly Gly Gln Ser Arg Gly Leu Gly
                245                 250                 255
Arg Asp Val Gly Asp Asp Thr Asp Gly Arg Gly Leu Thr Arg Asp Gln
            260                 265                 270
Gly Gly Arg Gly Gln Gly Thr Gly Glu Ala Glu Ser Asp Glu Glu Gly
        275                 280                 285
Arg Glu Thr His Phe Asp Gln Arg Arg Val Val Leu Glu Ile Ser Cys
    290                 295                 300
Ile
305
```

<210> 24129
<211> 180
<212> PRT
<213> A.fumigatus

```
<400> 24129
Arg Gln Met Pro Ile Phe Ala Ile Thr His Trp Tyr Ala Phe Ser Trp
1               5                   10                  15
His Asp Tyr Ala Asp Pro Thr Ile Ser Ala Ala Arg Leu Pro Val Val
            20                  25                  30
Tyr Ala Leu Arg Asp Ala Phe Gly Ala Lys Asp Leu Val Glu Asp Thr
        35                  40                  45
Lys Met Thr Leu Arg Gly Glu Asn Tyr Glu Tyr Arg Arg Phe Asp Ser
    50                  55                  60
Gly Asp His Ile Ile Pro His Ala Glu Ser Lys Ser Arg Val Lys Arg
65                  70                  75                  80
Val Met Asp Gly Met Arg Tyr Glu Arg Gly Gly Lys Ala Lys Tyr Trp
                85                  90                  95
Ile Pro Lys Pro Gly Glu Val Asn Ser Arg Thr Pro Leu Leu Ala Asp
            100                 105                 110
Ala Glu Ser Ser Asn Arg Ser Arg Arg Ser Ser Ala Leu Glu Arg Phe
        115                 120                 125
Arg Ser Asn Ser Asp Met Glu Glu Thr Thr Leu Asp Pro Asp Asp Glu
    130                 135                 140
Asp Leu Phe Thr Lys Ala Arg Ala Leu Glu Phe Gly Asp Trp Asn Val
145                 150                 155                 160
Ser Leu Ala His Ile Asp Asp Glu Glu Arg Ser Gly Glu Leu Ile Phe
                165                 170                 175
Ser Ser Thr Arg
            180
```

<210> 24130
<211> 165
<212> PRT
<213> A.fumigatus

<400> 24130
Pro Val Pro Pro Asp Ile Ile Asp Arg Cys Ile Tyr Phe Arg Ala Phe
1 5 10 15
Gln Arg Pro Leu Gln Gly Ser Lys Ala Lys Tyr Leu His Arg Phe Leu
20 25 30
Cys Arg Ser Arg Leu Asn Asn Leu Leu Gln Val Arg Lys Gly Gly Asn
35 40 45
Ala Ser Phe Gln Ile Val Glu Glu Arg Pro Gly His Ser Lys Phe Arg
50 55 60
Ala Ile Trp Ala Phe Lys Glu Leu Leu Lys Arg Gly Lys Tyr Ser Cys
65 70 75 80
Lys Cys Ile Gly Leu Leu Leu Lys Val Asp Asp Ile Phe Pro Ser Asn
85 90 95
Phe His Phe Ile Asn Val Phe Ser Thr Tyr Phe His Asp Ala Pro Ser
100 105 110
Gln Leu Asp Asn Thr Asp Asn Thr Gly Cys Thr Gly Lys Arg Val Tyr
115 120 125
Asn Gln Arg Gly Cys Arg Val Gln Asp Arg Ser Ile Pro Cys Gln Gly
130 135 140
Asn Asp Gly Lys Ser Ala Asn Glu Val Leu Met Glu Ile Phe Glu Arg
145 150 155 160
Lys Arg Gly Arg Cys
165

<210> 24131
<211> 120
<212> PRT
<213> A.fumigatus

<400> 24131
Leu Leu His Phe Phe Arg Gly Phe Thr Thr His Ile Asp His Ser Ile
1 5 10 15
Ser Leu Ser Arg Leu Arg Thr Ala Lys Gly Ala Ala Phe Asn Ser Tyr
20 25 30
Glu Asn Gln His Asp Glu Cys Leu Leu Gly Thr Arg Thr Lys Leu Leu
35 40 45
Ser Asp Ile Glu Lys Trp Ala Ile Ser Pro Gln Gly Lys Cys Ile Phe
50 55 60
Trp Leu Tyr Gly Met Ala Gly Thr Gly Lys Ser Thr Ile Ser Arg Thr
65 70 75 80
Val Ala His Arg Leu Lys Lys Lys Gly Pro Phe Thr Ala Ser Phe Phe
85 90 95
Phe Lys Lys Gly Glu Lys Asp Gln Arg Ser Ala Gln Asn Pro Leu Ser
100 105 110
Ile Asn Asp Asn His Ser Pro Ile
115 120

<210> 24132
<211> 145
<212> PRT
<213> A.fumigatus

<400> 24132
Thr Val Ser Ser Ser Arg Gly Ser Thr Ser Gly Pro Ala Arg Leu Arg
1 5 10 15

```
Pro Pro Thr Leu Pro Ser Leu Arg Leu Leu Pro Ser Ala Thr Leu Trp
            20                  25                  30
Leu Pro Pro Pro Pro Leu Leu Leu Arg Ser Pro Ala Leu Pro Thr Pro
        35                  40                  45
Thr Val Leu His Pro Pro Ala Ser Pro Pro Thr Gly Pro Thr Pro Leu
    50                  55                  60
Pro Lys Ala Ser Thr Ala Leu Thr Asp Ser Val Ala Gly Pro Ser Pro
65                  70                  75                  80
Ala Ala Pro Val Ser Ser Thr Arg Ala Thr Leu Val Asn Pro Gly Ala
                85                  90                  95
Ala Thr Ser Ser Arg Ser Pro Pro Arg Thr Pro Arg Ser Thr Ser Thr
            100                 105                 110
Ser Leu Ser Leu Leu Ala Ala Thr Leu Thr Pro Gly Pro Leu Ser Ser
        115                 120                 125
Trp Thr Gln Gly Phe His Thr Arg Arg Met Ala Gly Ser Thr Leu Val
    130                 135                 140
Gly
145
```

<210> 24133
<211> 201
<212> PRT
<213> A.fumigatus

<400> 24133

```
Ile Thr Gln Val His Pro Phe Phe Ala Met Gln Leu Lys Asn Ser Met
1               5                   10                  15
Leu Leu Leu Thr Ala Leu Ala Ala Gly Ser Ser Val Ala Arg Leu His
            20                  25                  30
Gly His Glu Arg Arg His Leu His His Ala Gly Glu Lys Arg Glu Val
        35                  40                  45
Gly Asp Thr Val Tyr Ala Thr Ile Asn Gly Val Leu Val Ser Trp Ile
    50                  55                  60
Asn Glu Trp Ser Gly Glu Ala Lys Thr Ser Asp Ala Pro Val Ser Gln
65                  70                  75                  80
Ala Thr Pro Val Ser Asn Ala Val Ala Ala Ala Ala Ala Ala Ser Thr
                85                  90                  95
Pro Glu Pro Ser Ser Ser His Ser Asp Ser Ser Ser Ser Ser Gly Val
            100                 105                 110
Ser Ala Asp Trp Thr Asn Thr Pro Ala Glu Gly Glu Tyr Cys Thr Asp
        115                 120                 125
Gly Phe Gly Gly Arg Thr Glu Pro Ser Gly Ser Gly Ile Phe Tyr Lys
    130                 135                 140
Gly Asn Val Gly Lys Pro Trp Gly Ser Asn Ile Ile Glu Val Ser Pro
145                 150                 155                 160
Glu Asn Ala Lys Lys Tyr Lys His Val Ala Gln Phe Val Gly Ser Asp
                165                 170                 175
Thr Asp Pro Trp Thr Val Val Leu Val Asp Thr Arg Phe Ser His Ser
            180                 185                 190
Pro Asn Gly Arg Ile Asn Ala Ser Arg
        195                 200
```

<210> 24134
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24134
Ile Ile Cys Pro Ile Gln Thr Arg Ile Pro His Thr Ala Ser Ser Ile
1 5 10 15
Leu Asn His Gln Ser Cys Thr Leu Leu Ser Phe Pro Phe Leu Phe
20 25 30
Ile Ile Ile Ile Glu Lys Ile Asn Ser Tyr Gln Val Gln Tyr Asn Ile
35 40 45
Val Phe Asn Phe Cys Gln Gln Glu Ile Ile Asn Ile Val Ile Pro Ile
50 55 60
Ser Gly Asn Ile
65

<210> 24135
<211> 82
<212> PRT
<213> A.fumigatus

<400> 24135
Thr Arg Pro Pro Gly Cys Glu Val Asp Gly Val Gly Ile Val Thr Ile
1 5 10 15
Ile Asp Lys Pro Thr Gly Pro Glu Leu Leu Leu Gln Lys Gln Tyr Arg
20 25 30
Pro Pro Ile Asp Lys Val Val Ile Glu Val Pro Ala Gly Leu Ile Asp
35 40 45
Ala Gly Glu Thr Val Glu Glu Cys Ala Val Arg Glu Leu Lys Glu Glu
50 55 60
Thr Gly Tyr Val Gly Val Ala Glu Gln Thr Ser Thr Leu Met Phe Asn
65 70 75 80
Gly Glu

<210> 24136
<211> 121
<212> PRT
<213> A.fumigatus

<400> 24136
Gln Ser Arg Gln Ala Leu Ser Cys Leu Met Val Ser Asp Ala Leu Ile
1 5 10 15
Leu His Ala Ile Phe Arg Asp Gln Ala Pro Val Gln Pro Ser Glu Ala
20 25 30
Trp Cys Lys Thr Leu Ile Glu Gly Ile Thr Asp Pro Gly Met Cys Asn
35 40 45
Thr Asn Leu Asn Met Val His Val Arg Val Asp Leu Ser Leu Pro Glu
50 55 60
Asn Gln Asp Pro Lys Pro Gln Leu Glu Asp Asn Glu Cys Ile Glu Cys
65 70 75 80
Phe Thr Leu Pro Leu Ser Thr Leu Phe Ser Glu Leu Lys Arg Leu Glu
85 90 95
Ala Asp Gly Tyr Ala Ile Asp Ala Arg Val Gly Thr Leu Ala Glu Gly
100 105 110
Ile Glu Leu Ala Asn Lys Leu Lys Leu
115 120

<210> 24137

<211> 276
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3),(12),(24),(25),(26),(28),(29),(30),(39),(41),(46),(49),(50),(97)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24137
Gln Lys Xaa Lys Asn Pro Pro Pro Asn Lys Pro Xaa Gln Pro Pro Gln
1 5 10 15
Thr Pro Gln Thr Pro Pro Gln Xaa Xaa Xaa Lys Xaa Xaa Xaa Pro Phe
20 25 30
Thr His Ser Leu Pro Gln Xaa Ile Xaa His Ala Ile Ser Xaa Ser Thr
35 40 45
Xaa Xaa Met Val Ala Cys Leu Met Met Thr Pro Ala Arg Val Leu Lys
50 55 60
Gln Asn Ala Gln Val Thr Asn Val Asn Thr Gly Lys Gly Gly Gln Asn
65 70 75 80
Ala Lys Ser Ala Met Thr Gln Val Ile Ala Arg Phe Lys His Arg Pro
85 90 95
Xaa Lys Leu Trp Ser Gly Tyr Thr Ala Leu Val Gly Arg Asn Leu Pro
100 105 110
Phe Thr Gly Leu Asn Phe Pro Leu Phe Glu Leu Phe Arg Ser His Leu
115 120 125
Val Glu Trp Arg Lys Arg Arg Lys Glu Asp Asp Ala Met Gln Thr Arg
130 135 140
Glu Trp Gly Pro Val Val Glu Arg Ala Ala Leu Thr Gly Met Ala Ala
145 150 155 160
Ser Met Ser Gly Met Ile Ala Ser Val Val Thr Thr Pro Ile Asp Val
165 170 175
Ile Lys Thr Arg Met Met Leu Ser Ala Ser Cys His Asn Asn Asp Asp
180 185 190
Ser Asn Lys Ser Thr Lys Lys Lys Met Ala Gly Trp Gly Thr Leu Arg
195 200 205
Val Gly Lys Glu Ile Tyr Arg Asn Glu Gly Ile Arg Gly Leu Phe Lys
210 215 220
Gly Gly Ala Ile Arg Ala Ala Trp Thr Ala Ala Ser Leu Ser Met Tyr
225 230 235 240
Leu Ser Ile Tyr Glu Gly Gly Arg Phe Tyr Leu Glu Asn Arg Arg Arg
245 250 255
Glu Lys His Gly Leu Asn Thr Arg Val Glu Val Asp Gly Ser Lys Glu
260 265 270
Glu Ala Ala Ile
275

<210> 24138
<211> 127
<212> PRT
<213> A.fumigatus

<400> 24138
Asp Met Arg Thr Ser Arg Leu Thr Val Ala Leu Leu Glu Glu Gln Asp
1 5 10 15
Leu Trp Glu Ser Arg Arg Ala Trp Arg Asp Val Ala Ser Ala Ile Glu

```
            20                  25                  30
Arg Gly Asp Met Asp Ala Thr Ser Val Ala Lys Ser Lys Ile Glu Asn
        35                  40                  45
Ala Gln Arg Glu Leu Arg Lys Val Glu Lys Ala Glu Asn Arg Glu Trp
    50                  55                  60
Glu Arg Arg Phe Phe Lys Arg Val Asp Glu Thr Ala Asp Glu Glu Phe
65                  70                  75                  80
Gln Arg Leu Ala Arg Met Val Gly Leu Thr Ser Leu Glu Ser Asp Lys
                85                  90                  95
Thr Gly Gly Val Trp Arg Phe Asp Lys Glu Arg Ala Ala Asn Ala Lys
            100                 105                 110
Pro Pro Tyr His Gln Ile Gly Gly Glu Gly Leu Gly Val Ser Glu
        115                 120                 125
```

<210> 24139
<211> 143
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (110),(138),(141)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24139

```
Asn Arg Arg Leu Arg Pro Leu Leu Ala Asn His Leu Arg Leu His Arg
1               5                   10                  15
Pro Ala His Pro Ile Arg Pro Arg Arg His Arg Pro Gln Cys Gln Pro
            20                  25                  30
Arg Arg Leu Asn Glu Cys Pro Arg Pro Ala Arg Gln Ser His His Arg
        35                  40                  45
Arg Arg Pro Arg Arg Pro Arg Pro His Arg Arg Gly Arg Val Cys Pro
    50                  55                  60
Gly Leu Gly Gly Arg Arg Val Pro Val Pro Leu Pro Arg Ala Glu Leu
65                  70                  75                  80
Val Arg Ala Ser Leu Leu Trp Ala Gly Gly Ala Ile Cys Gln Cys Ala
                85                  90                  95
Cys Val Trp Ala Gly Gly Gly Gly Pro Asp Pro Pro Pro Xaa Val Ser
            100                 105                 110
Gly Val Val Gly Val Ala Ser Gly Arg Ser Gly Thr Val Cys Ala Arg
        115                 120                 125
Arg Lys Arg Lys Val Pro Arg Lys Asn Xaa Glu Lys Xaa Ala Ser
    130                 135                 140
```

<210> 24140
<211> 226
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (192),(221),(224)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24140

```
Asp Met His Ala Val Val Arg Ala Asp Asn Leu Thr Ile Pro Gln Ile
```

```
1               5                   10                  15
Gly His Ala Thr Ser Tyr Ser Gln Ser Asp Pro Ser Thr Leu Asn Leu
            20                  25                  30
Asp Asp Ser Gln Ser Gly Tyr Ile Ser Leu Leu Pro Leu Thr Leu Phe
        35                  40                  45
Glu Pro Pro Ala Ile His Pro Phe Thr Ser Met Thr Met Ser Thr Asp
    50                  55                  60
Lys Ser Ala Arg His Tyr Ile Glu Thr Ile Ser Thr Arg Pro Gln Lys
65                  70                  75                  80
Pro Ile Glu Ile Val Asp Tyr Asp Pro Ser Trp Pro Thr Thr Phe Ala
                85                  90                  95
Ser Ile Ala Gln Arg Ile Arg Ser Ala Leu Gly Ala Thr Ala Leu Ser
            100                 105                 110
Val Ser His Val Gly Ser Thr Ser Val Pro Gly Leu Pro Ala Lys Ala
        115                 120                 125
Ile Ile Asp Val Asp Leu Val Val Pro Asp Pro Thr Ala Glu Asp Glu
    130                 135                 140
Tyr Ala Pro Ala Leu Glu Ala Ala Gly Phe Gln Phe Leu Phe Arg Glu
145                 150                 155                 160
Pro Asn Trp Tyr Glu His Arg Phe Phe Gly Leu Ala Glu Pro Tyr Ala
                165                 170                 175
Asn Val His Val Phe Gly Pro Gly Ala Ala Asp Leu Ile Arg His Xaa
            180                 185                 190
Arg Phe Arg Glu Trp Leu Val Ser His Pro Ala Asp Arg Glu Leu Tyr
        195                 200                 205
Val His Gly Glu Lys Gly Arg Cys Pro Gly Lys Thr Xaa Lys Asn Xaa
    210                 215                 220
Leu Val
225
```

<210> 24141
<211> 79
<212> PRT
<213> A.fumigatus

```
<400> 24141
Thr Thr Ser Pro Leu Tyr Gln Val Gly Asp Glu Leu Tyr Val Asn Ile
1               5                   10                  15
Ala Leu Asp Phe Arg Leu Met Leu Cys Val Ser Asp Cys Lys Phe Asn
            20                  25                  30
Lys Asp Ala Pro Asn Val Val His Met Thr Val Lys Pro Gln Glu Ile
        35                  40                  45
Val Asp Glu Glu Asp Ala Lys Ala Ala Lys Ala Pro Tyr Ser Arg Glu
    50                  55                  60
Arg Glu Ala Ser Glu Arg Ser Pro Gly Cys Arg Cys Ile Ile Gln
65                  70                  75
```

<210> 24142
<211> 78
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24142
Glu Pro Leu Thr Lys Val Asn Pro Arg Pro Asn Gln Thr Xaa Glu His
1 5 10 15
Gln Pro His Asp Ile Ser Asp Tyr Ala Arg Phe Ala Asn Thr Met Glu
20 25 30
Phe Asn Ser Ser Gly Arg Gln Tyr Glu Asn Lys Lys Tyr Ala Leu Asn
35 40 45
Phe Cys Ser Arg Thr Val Gly Thr Ala Trp Gln Glu Asp Leu Asp Leu
50 55 60
Gly Cys Leu Gly Gln Ser Thr Arg Pro Pro Val Glu Arg Pro
65 70 75

<210> 24143
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24143
Thr Glu Leu Pro Trp Ser Val Lys Met His Asp His Ile Pro Val Glu
1 5 10 15
Leu Val Phe Leu Gln Thr Asn Gly Trp Asn Phe Cys His Ile Gln Leu
20 25 30
Pro Ile Ser His Ala Gly Asp Tyr Asp Lys Lys Gln Asp Leu Gly Asp
35 40 45
Val Thr Glu Val Thr Ile Cys Thr Tyr Phe Gln Ser Ile Tyr Asn Ser
50 55 60
Asp Pro Gly Ser Ser
65

<210> 24144
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24144
Trp Lys Tyr Ile His Lys Pro Gly Tyr Ser Pro Asn Asn Leu Asn Leu
1 5 10 15
Ser Asp Leu Gln Ser Ser Arg Leu Leu Arg Ser Met Thr Cys Val Lys
20 25 30
Val Arg Phe Cys Asn Ala Asp Asp Pro Asn Cys His Gly Ala His Ile
35 40 45
His Phe Arg Pro Asn Pro Ala His Val Gly Ala Thr Leu Tyr Met Cys
50 55 60
Gln Gly Trp His Lys Phe Ile Thr Gln Gly Ile Arg Tyr Ile Pro Cys
65 70 75 80
Ser Tyr Asp Met Gln Glu
85

<210> 24145
<211> 137
<212> PRT
<213> A.fumigatus

<400> 24145
Ala Cys Ser Glu Ala Ile Ile Asn Thr Cys Ser Ser Gly Ser Trp Pro

```
1               5                   10                  15
Lys Thr Trp Ile Ile Gly Asn Lys Asn Glu Ser Arg Asp Leu Arg Gly
            20                  25                  30
Asn Pro Met Glu Asn Phe Lys Leu Leu Ile Ala Glu Gln Arg Leu Ser
        35                  40                  45
Asn Thr Gly Ala Ala Leu Thr Gly Phe Gln Lys Glu Ile Phe Asp Ser
    50                  55                  60
Pro Tyr Val Ser Cys Gly Ser His Lys Gly Thr Thr Ser Asp Asp Asp
65                  70                  75                  80
Met Asn Leu Lys Pro Asn Ser Leu Pro Gly Glu Arg Pro Ser Phe Leu
                85                  90                  95
Thr Leu Ala Cys Leu Ile Ser Leu Glu Leu Thr Gln Pro Asn Lys Val
            100                 105                 110
Tyr Pro Phe Val Leu Glu Leu Lys Leu Ser Lys Pro Asn Arg Leu Ile
        115                 120                 125
Cys His Gly Ile Leu Asp Leu His Leu
    130                 135
```

<210> 24146
<211> 115
<212> PRT
<213> A.fumigatus

<400> 24146

```
Trp Ser Ala Phe Asn Met Pro Val Phe Gln Ala Lys Pro Phe Arg Arg
1               5                   10                  15
Ala Thr Thr Ala Ser Ser Ser Leu Gly Glu Arg Ile Gly Ala Ala Tyr
            20                  25                  30
Arg Gly Asn Leu Gln Lys His Pro Phe Leu Leu Phe Gly Leu Pro Phe
        35                  40                  45
Ile Met Ile Ile Val Ala Gly Ser Phe Ala Leu Thr Pro Ala Ala Ala
    50                  55                  60
Leu Arg Tyr Glu Arg Tyr Asp Arg Lys Val Lys Gln Leu Thr Gln Glu
65                  70                  75                  80
Glu Ala Met Glu Leu Gly Leu Lys Gly Ala Asp Gly Glu Glu Gly Ile
                85                  90                  95
Arg Arg Asn Pro Arg Arg Arg Val Leu Gly Asp Glu Arg Glu Glu Tyr
            100                 105                 110
Tyr Val Ser
        115
```

<210> 24147
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24147

```
His Leu Thr Asp Leu Met Thr Ile Tyr Leu Ala Leu Arg Val Asn Phe
1               5                   10                  15
Gly Leu Asp Asn Val Asp Cys Ile Tyr Ile Phe Val Pro Tyr Trp Trp
            20                  25                  30
Thr Leu Ala Trp His Cys Asn Asn Val Ile His Asp Ile Ser Arg Ser
        35                  40                  45
Asp Met Pro Leu Arg Asn Val Gly Pro Thr Ser Pro Gly
    50                  55                  60
```

<210> 24148
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24148
Met Asp Ser Phe Ile Cys Ser Tyr Ser Arg Thr Asn Arg Arg Gly Pro
1 5 10 15
Ile Gly Ala Cys Ile Pro Leu Leu Thr Val Asp Leu Thr Asp Lys Tyr
20 25 30
Ser Thr Asp Glu Lys Trp Ser Ser Asp Lys Leu Ile Ser Ile Asp Thr
35 40 45
Asn Arg Asp Val Phe Thr Thr Gly Leu Glu Gly Ser Ala
50 55 60

<210> 24149
<211> 93
<212> PRT
<213> A.fumigatus

<400> 24149
Asp Asn Ala Val Asn Gly Leu Asn Val Ile His Val Ser Gly Thr Lys
1 5 10 15
Gly Lys Gly Ser Thr Cys Ala Phe Thr Arg Ser Phe Leu Arg Ala His
20 25 30
Ser Val Arg Thr Gly Leu Pro Lys Lys Ile Gly Leu Tyr Thr Gly Pro
35 40 45
His Leu Gln Cys Val Arg Glu Arg Ile Gln Ile Asp Asp His Pro Val
50 55 60
Ala Glu Glu Leu Phe Thr Arg Tyr Phe Phe Glu Val Trp Asp Arg Ile
65 70 75 80
Met Pro Ala Asp Ile Glu Leu Asp Ala Gly Val Ala Lys
85 90

<210> 24150
<211> 108
<212> PRT
<213> A.fumigatus

<400> 24150
Leu Cys Asp Ser Arg Ile Gln Phe Tyr Ile Arg Arg His Asn Ala Ile
1 5 10 15
Pro His Phe Glu Glu Ile Ser Gly Lys Gln Phe Phe Arg Asp Trp Met
20 25 30
Val Ile Asn Leu Tyr Ser Phe Ala Asn Ala Leu Gln Met Trp Pro Arg
35 40 45
Ile Glu Pro Asn Leu Leu Gly Glu Pro Cys Pro His Ala Met Cys Thr
50 55 60
Lys Glu Ala Ala Cys Lys Ser Ala Gly Ala Thr Leu Pro Leu Arg Ala
65 70 75 80
Ala Asp Met Asp Tyr Ile Gln Ala Val Tyr Arg Ile Ile Leu Glu Gln
85 90 95
Val Ser Arg Arg Cys Val Ala Val His Asn Ser Tyr
100 105

<210> 24151

<211> 145
<212> PRT
<213> A.fumigatus

<400> 24151
Leu Gln Ala Thr Gln His Pro Asn Leu Pro Ala Ser Ala Ala Thr Leu
1 5 10 15
Phe Lys Ala Lys Ala Gln Lys Lys Leu Ser Phe Glu Gln Ile Ala Gln
20 25 30
His Ile Gly Arg Asn Glu Val Ala Thr Ala Ala Leu Phe Tyr Gly Gln
35 40 45
Ala Lys Ala Ser Pro Glu Asp Ile Gln Lys Leu Ser Glu Leu Leu Asn
50 55 60
Ile Ser Pro Gln Val Leu Glu Glu Gln Leu Ser Gly Phe Pro Asp Arg
65 70 75 80
Gly Arg Ser Val Glu Met Pro Pro Lys Glu Pro Leu Ile Tyr Arg Leu
85 90 95
Tyr Glu Ile Val Gln Asn Tyr Gly Tyr Ala Tyr Lys Ala Val Leu Asn
100 105 110
Glu Lys Phe Gly Asp Gly Ile Met Ser Ala Ile Ser Phe Ser Thr Lys
115 120 125
Val Glu Lys Glu Thr Glu Pro Asp Ala Lys Lys Arg Gly Arg Leu Lys
130 135 140
Phe
145

<210> 24152
<211> 81
<212> PRT
<213> A.fumigatus

<400> 24152
Cys Gly Gln Leu Gly Arg Phe Gln Lys Ile Phe Ala Trp Gly Ile Ile
1 5 10 15
Arg Tyr Val Tyr Arg Tyr Phe Gln Ser Leu Glu Glu Lys Gly Glu Asp
20 25 30
Cys Ser Ser Ile Ser Gly Ala Thr Ser Ala Phe Tyr Lys Val Met Arg
35 40 45
Asp Ile Phe Ser Asn Thr Glu Ile Thr Leu Cys Gly Glu Arg Lys Val
50 55 60
Arg Gln Leu Ser Leu Ile Gly Asn Leu Leu Leu Pro Ser Ala Leu Ser
65 70 75 80
Arg

<210> 24153
<211> 130
<212> PRT
<213> A.fumigatus

<400> 24153
Arg Gly Ser Arg Ser Gln Gly Arg Arg Arg Ile Trp Ala Ser Gly Arg
1 5 10 15
Ile Trp Arg His Ser Thr Ser Ser Glu Met Trp Pro Leu Ala Ser Arg
20 25 30
Leu Glu Gly Trp Met Ala Thr Met Val Glu Phe Val Ser Ala Tyr Ser

```
        35                  40                  45
Ser Pro Arg Asn Phe His Gln Ala Asp Arg Ser Ile Pro Glu Arg Trp
    50                  55                  60
Leu Pro Gln Val Ile Glu Asn Pro Ala Ser Pro Phe Phe Leu Asp Asn
65                  70                  75                  80
Arg Ala Val Phe Gln Pro Phe Ser Ile Arg Pro Arg Asn Cys Leu Gly
                85                  90                  95
Arg Asn Leu Ala Tyr Thr Glu Met Arg Met Ile Leu Ala Arg Gly Leu
            100                 105                 110
Trp Thr Phe Gly Cys Ser Val Lys Arg Val Val Thr Gly Arg Ile Gly
        115                 120                 125
Ala His
    130
```

<210> 24154
<211> 88
<212> PRT
<213> A.fumigatus

<400> 24154

```
Phe Ile Thr Ala Gln Ala Trp Lys Asp Ile Tyr Gly His Gly His Leu
1               5                   10                  15
Gln Leu Pro Lys Val Gln Ile Ser Thr Ile Asn Gly Lys Asn Ile Phe
            20                  25                  30
Ala Thr Asn Asp Val Asp His Ala Arg Phe Arg Lys Ala Leu Ser His
        35                  40                  45
Ala Phe Ser Ala Lys Gly Leu Gln Ala Gln Glu Cys Leu Val Thr Arg
    50                  55                  60
Tyr Ile Asp Lys Arg Ile Glu Arg Leu Lys Gly Phe Thr Glu Ser Gly
65                  70                  75                  80
Thr Ala Ala Asp Met Gly Lys Trp
                85
```

<210> 24155
<211> 355
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5),(39)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24155

```
Ala Ser Gly Arg Xaa Ala Arg Phe Glu Phe Glu Val Gly Lys Gly Asn
1               5                   10                  15
Asp Gly Thr Lys Ile Leu Met Ile Glu Trp Asp Asp Glu Asp Ser Gly
            20                  25                  30
Arg Ser Ser Asn Cys Leu Xaa Gly Ser Trp His Val Ser Trp Glu Gly
        35                  40                  45
Lys Thr Thr Val Leu Pro Ala Asp Glu Arg Thr Ser Glu Asn Thr Arg
    50                  55                  60
Arg Phe Tyr Phe Leu Leu Pro Pro His Ala Thr Ile Pro Pro Val Val
65                  70                  75                  80
Thr Leu Ser Tyr Glu Pro Pro Ala Thr Cys Ser Thr Ser Ser Thr Pro
                85                  90                  95
```

```
Thr Gln Lys Thr Ser Ser Leu Gln Leu Asn Pro Leu Pro Ala Ile Phe
            100                 105                 110
Pro Pro Glu Leu Gly Ala Thr Gly Arg Ser Ala Gly Lys Lys Gly Val
        115                 120                 125
Leu His Thr Ile Trp Ala Lys Lys Arg Leu Gln Val Leu Asp Lys Glu
    130                 135                 140
Ile Arg Glu Glu Cys Met Asn Asn Ala Glu Gly Val Ala Leu His Met
145                 150                 155                 160
Ala Leu Gln Glu Lys Glu Trp Ile Glu Ser Asn Phe Gly Val Gly Ser
                165                 170                 175
Lys Ser Glu Ala Gln Thr Gln Ser Met Gln Asp Ser Gln Tyr Pro Met
            180                 185                 190
Gly Pro Ala Thr Pro Val Ser Pro Thr Ser Gly Gly Lys Leu Gly Glu
        195                 200                 205
Lys Leu Lys Gly Leu Lys Leu Gln Thr Ser Gln Arg Glu Leu Ser Pro
    210                 215                 220
Lys Ala Asp Gly Met Gly Ser Ser Arg Ser Ser Ser Ser Met Pro Thr
225                 230                 235                 240
Asn Gly Val Val Ala Ser Ser Asn Ala Arg His Leu Leu Ser Pro Gln
                245                 250                 255
Ser Pro Asp Val Ala Val Ser Ser Phe Asn Ser Phe His Thr Met Gln
            260                 265                 270
Pro Met Ser Asn Val Leu His Pro Ser Pro Ala Pro Asp Thr Ser Leu
        275                 280                 285
Arg Thr Val Val His Tyr Pro Pro Glu Ser Ile Gln Ala Gln Gln Asn
    290                 295                 300
Ser Ser Glu His Asn Ser Gly Phe Ala Ser Met Thr Thr Ile Thr Arg
305                 310                 315                 320
Thr Ser Ser Ala Asp Ser Gly Glu Asp Leu Phe Ala Lys Ala Leu Ser
                325                 330                 335
Pro Arg Ser Pro Asp Leu Pro Arg Ser Pro Phe Ser Phe Ala Pro Glu
            340                 345                 350
Thr Val Ile
        355
```

<210> 24156
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24156

```
Arg Ser Leu Arg Phe Ala Thr Ile Ala Ile His Gln Pro Thr Leu Leu
1               5                   10                  15
Lys Asp Lys Ile Phe Ile Phe Arg Ile Ile Leu Cys His Leu Lys Tyr
            20                  25                  30
Ser Phe Ala Leu Phe Ile Val Ala Ile Tyr Asn Thr His Gln Arg Ser
        35                  40                  45
Ser Pro Thr Ile Ile Phe Leu Gln Arg Cys Gly Leu Ala Pro Thr Lys
    50                  55                  60
Arg Pro
65
```

<210> 24157
<211> 308
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (247),(248)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24157
Phe Ser Cys Asp His Lys Ile Leu Pro Thr Glu Arg Lys Tyr Leu Thr
1 5 10 15
Arg Arg Met Tyr Tyr Pro Gly Ile Asn Ser Leu Leu Leu Trp Leu Leu
20 25 30
Cys Phe Ala Pro Pro Gly Leu Ala Tyr Gly Arg Ser Ser Glu Ser Pro
35 40 45
Pro Gly Pro Asn Ala Ile Leu Leu Ser Arg Val Gln Ser Leu Thr Leu
50 55 60
Arg Ala Asn Arg Leu Thr Ser Ser Arg Arg Val Ser Pro Ile Pro Gln
65 70 75 80
Leu Lys Cys Val Gly Pro Ser Lys Thr Ile Cys Asp Lys Tyr Lys Ile
85 90 95
Glu Thr Met Arg Cys Thr Asn Ala Gly Tyr Asp Tyr Asp Glu Glu Asp
100 105 110
Val Gln Trp Thr Cys Thr Ala Gln Leu Pro Glu Glu Phe Met Leu Gly
115 120 125
Ala Thr Asp Val Ile Cys Glu Gly Tyr Arg Asn Ala Asp Asp Lys Trp
130 135 140
Val Leu Lys Gly Ser Cys Gly Val Glu Tyr Arg Leu Leu Leu Thr Glu
145 150 155 160
Arg Gly Glu Ser Arg Phe Gly Arg Ile Gln Glu Asp Asp Met Arg Ser
165 170 175
Ile Pro Leu Ala Thr Lys Gly Trp Arg Arg Gly Met Asp Ala Leu Val
180 185 190
Asp Leu Ile Phe Leu Gly Phe Trp Ala Ala Val Leu Val Met Ile Phe
195 200 205
Trp Pro Met Val Arg Ser Cys Phe Gly Leu Arg Gly Arg Arg Gly Arg
210 215 220
Thr Asn Val Gly Arg Gly Trp Gly Gly Phe Trp Gly Gly Gly Gly Gly
225 230 235 240
Gly Gly Gly Asp Arg Gly Xaa Xaa His Ser Arg Pro Ser Pro Gly Pro
245 250 255
Pro Pro Pro Phe Leu Ala Leu Pro Leu Ser Ser Ser Leu Ser Ala Ser
260 265 270
Leu Cys Val Ser Ala Gly Leu Phe Gly Pro Val Leu Pro Leu Val Ala
275 280 285
Phe Val Leu Leu Pro Tyr Gly Phe Ala Thr Pro Ser Ala Cys Pro Phe
290 295 300
Val Pro Pro Ser
305

<210> 24158
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(2)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24158
Xaa Xaa Pro Arg Ser Pro Pro Pro Pro Pro Pro Pro Pro Gln Asn Pro
1 5 10 15
Pro Gln Pro Arg Pro Thr Leu Val Leu Pro Arg Arg Pro Arg Ser Pro
20 25 30
Lys Gln Glu Arg Thr Ile Gly Gln Lys Ile Ile Thr Arg Thr Ala Ala
35 40 45
Gln Asn Pro Lys Lys Met Arg Ser Thr Arg Ala Ser Ile Pro Arg Arg
50 55 60
His Pro Phe Val Ala Ser Gly Met Asp Arg Ile Ser Ser Ser Cys Ile
65 70 75 80
Leu Pro Asn Arg Leu Ser Pro Arg Ser Val Asn Ser Ser Arg Tyr Ser
85 90 95
Thr Pro Gln Leu Pro Phe Asn Thr His Leu Ser Ser Ala Phe Arg Tyr
100 105 110
Pro Ser Gln Ile Thr Ser Val Ala Pro Asn Met Asn Ser Ser Gly Ser
115 120 125
Cys Ala Val His Val His Trp Thr Ser Ser Ser Ser
130 135 140

<210> 24159
<211> 149
<212> PRT
<213> A.fumigatus

<400> 24159
Tyr Asp Ser Ser Asp Pro Ser Thr Pro Val Val Lys Thr Pro Pro Asp
1 5 10 15
His Arg Asp Arg Glu Gly Phe Lys Phe Glu Asn Pro Ser Thr Asp Cys
20 25 30
Lys Tyr Val Ser Gln Met His Ile Trp Asp Ser Phe Lys Asp Leu Glu
35 40 45
Lys Asp Met Asn Lys Leu Phe Thr Leu Ile His Lys Asn Val Ser Phe
50 55 60
Thr Val Val Gly His His Pro Ile Ala Gly His Tyr Asn Asp Leu Leu
65 70 75 80
His Phe Tyr Val Asn Ala Leu Arg Arg Val Ser Val Leu Phe Leu Asp
85 90 95
His Ala Asp Lys Phe Glu Ile His Pro Gln Ala Ile His Gly Gly Cys
100 105 110
Asn Glu Arg Trp Ser Val Gln Glu Val Asn Phe Arg Gly Val Met Asn
115 120 125
Ser Gly Glu Val Thr Ala Val Ile Ser Val Asn Gly Ala Asp Ile Arg
130 135 140
Thr Ile His Arg Arg
145

<210> 24160
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24160
Thr Val Leu Ile Leu Glu Gln Tyr Thr Gly Asp Asp Phe Asp Ile Val

```
1               5                   10                  15
Asn Val Trp Val Thr Arg Trp Asp Arg Gly Gln Met Val Glu Ile Arg
            20                  25                  30
Thr Tyr Ile Asp Ser Ala Arg Ile Met Glu Ala Leu His Lys Asn Glu
        35                  40                  45
Ile Trp Trp Asn Gly Thr Thr Phe Arg Asp Asn Ile His Tyr Met Pro
    50                  55                  60
Gly Pro Ala Gly Met Pro Asp Leu Lys Lys Leu Glu Asp Leu Met Gly
65                  70                  75                  80
Tyr Pro Asp Gly Arg Lys Tyr Glu Asp
                85
```

<210> 24161
<211> 115
<212> PRT
<213> A.fumigatus

<400> 24161

```
Asn Arg Ala Ala Leu Ser Ser Pro Val Val Lys Thr Ala Thr Gln Ser
1               5                   10                  15
Glu Thr His His Ser Gly Leu Ser Thr Pro Ser Lys Arg Lys Ser Ala
            20                  25                  30
Arg Leu Ala Lys Arg Lys His Ser Glu Thr Glu Asp Asn Met Glu Leu
        35                  40                  45
Ser Ala Pro Asp Arg Ala Ser Asp Gly Gly Asp Gly Asp Leu Phe Ile
    50                  55                  60
Gln Gly Met Cys Asp Ile Val Met Val Arg Ile Asp Asn Leu Arg Pro
65                  70                  75                  80
Thr Glu Leu Gln Phe Asn Glu Gln Asp Phe Leu Asp Asp Glu Leu Ser
                85                  90                  95
Gly Asp Glu Asp Trp Asn Gly Asn Asp Phe Asp Ala Thr Ala Ala Gly
            100                 105                 110
His Ala Trp
        115
```

<210> 24162
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24162

```
Leu Ile Asp Ala Gly His Phe Gln Trp Asp Gly Val Asp Phe Ser His
1               5                   10                  15
Ser Ala Gln Asp Val His Phe Ala Ile Glu Gly Gly Gly Gln Val Pro
            20                  25                  30
Val Leu Arg Ala Gln Leu Ala Asn Gln Asp Gly Glu Phe Gln Asp Ala
        35                  40                  45
Asp Val Asn Leu Ser Glu Arg Ile Glu Asn Ile Asn Gly Glu Phe Val
    50                  55                  60
Phe His
65
```

<210> 24163
<211> 143
<212> PRT
<213> A.fumigatus

<400> 24163
Gln Tyr Ala Asn Thr Glu Ser Met Thr Asp Glu Gln Pro Gln Ala Arg
1 5 10 15
Leu Gln Cys Ile Pro Cys Gly Arg Thr Lys Glu Pro Asp Gly Lys Asp
20 25 30
Ala Val Pro Asn Pro Ala Pro Trp Asp Asp Arg Arg Cys Cys Arg Trp
35 40 45
Ala Pro Pro Ala Gln Pro Val Ser Thr Asp Gly Ser Thr Ala Arg Pro
50 55 60
Gly Ser Ser Arg Arg Arg Pro Arg Arg Lys Arg Arg Ser Arg Gly Thr
65 70 75 80
His Pro Ala Arg Arg Pro Asp Arg Ser Pro Ser His Ala Ala Glu Cys
85 90 95
Pro Pro Ala Gly Gly Arg Ser Ser Asn Pro Pro Trp Ser Trp Pro Ser
100 105 110
Cys Ala Trp Arg Ser Gly Ala Arg Gly Trp Arg Arg Glu Arg Ala Asp
115 120 125
Pro Pro Ala Leu Arg Gly His Ile Gly Cys Cys Pro Arg Trp Trp
130 135 140

<210> 24164
<211> 345
<212> PRT
<213> A.fumigatus

<400> 24164
Ser Phe Gln Pro Gly Gly Glu Asp Gln Glu Arg Lys Phe Trp Ser Lys
1 5 10 15
Tyr Leu Glu Gly Ala Pro Gln Arg Leu Asp Ile Pro Arg Tyr Pro Gly
20 25 30
Gln Met Thr Phe Glu Gly Arg Ser Arg Val Ser Glu Phe Lys Gly Asp
35 40 45
Leu Val Arg Arg Ala Val Thr Leu Gly Gln Glu His Gly Leu Ser Gln
50 55 60
His Gln Leu Val Cys Ala Ala Val Ala Gln Thr Leu Gln Trp Leu Ala
65 70 75 80
Gly Ser Asn Asp Val Val Leu Gly Ser Pro Trp Ala Asn Arg Gly His
85 90 95
Thr Val Glu Gln Glu Ser Met Gly Leu Phe Leu Asp Arg Leu Pro Leu
100 105 110
Arg Phe Lys Thr Pro Val Asn Ala Asp Cys Ala Thr Ile Leu Gln Ser
115 120 125
Thr Arg Ala Ala Ser Gln Ala Ala Val Cys Asn Ser Ile Pro Phe Glu
130 135 140
Gln Val Leu Asn Leu Leu His Leu Pro Arg Thr Ile Gln Gln His Pro
145 150 155 160
Leu Phe Glu Ala Met Val Thr Phe His Leu Lys Gly Ala Val Glu Asp
165 170 175
Cys Leu Ala Ile Glu Gly Leu Glu Val Lys Arg Glu Met Cys Phe Ala
180 185 190
Ser Gly Ala Lys Phe Leu Leu Met Phe Glu Trp Thr Glu Ile Glu Ala
195 200 205
Asp His Trp Thr Leu Arg Ile Glu Tyr Asp Asp His Gln Leu Asp Asp
210 215 220
Ala Thr Val Thr Thr Ile Glu Asp Ser Ile Arg Cys Val Leu Glu Gly

```
225                 230                 235                 240
Leu Ala Asp Arg Leu Ser Arg Ala Ala Ile His Glu Arg Leu Asn Ala
                245                 250                 255
Met His Lys Thr Ala Arg Thr Lys Val Asp Trp Asn Phe Tyr Arg Arg
            260                 265                 270
Leu Val Gly Ile Leu Gln Arg Glu Met Ala Thr Cys Leu Gly Val Ser
        275                 280                 285
Leu Asp Glu Phe Pro Cys Ser Val Ser Phe Phe Glu Ala Gly Gly Asp
    290                 295                 300
Ser Ile Gln Ala Trp Arg Leu Ser Arg Gln Leu Lys Arg Val Gly Leu
305                 310                 315                 320
Glu Val Pro Ile Cys Asn Ile Phe Asp His Pro Thr Ala Gln Asp Leu
                325                 330                 335
Ala Gln Arg Leu Tyr Arg Gln Val Leu
            340                 345
```

<210> 24165
<211> 354
<212> PRT
<213> A.fumigatus

<400> 24165

```
Arg Pro Glu Glu Gly Lys Asp Phe Glu Thr Val Ile Asp Cys Gly Gln
1               5                   10                  15
Asp Gln Leu Asp Met Val Val Pro Gln Gly Leu Thr Val Arg Ala Val
            20                  25                  30
Ala Glu Leu Tyr Gly Pro Glu Glu Arg Val Glu Val Ile Asp Val Lys
        35                  40                  45
Ser Gln Gln Gly Glu Asp Lys Arg Trp Asn Met Gln Lys Trp Ala Asp
    50                  55                  60
Tyr Tyr Glu Ser Thr Gly Ser Lys Val Val Arg Asn Val Ile Ser Leu
65                  70                  75                  80
Glu Val Ser Gln Ser Lys Leu Gly Lys Leu Ile Arg Arg Pro Lys Ile
                85                  90                  95
Val Arg Asp Leu Asp Leu Gln Asp Ala Val Trp Pro Glu Glu Leu Lys
            100                 105                 110
Ala Ile Gly Asp Tyr Pro Lys Val Gln Phe Tyr Cys Leu Met Ser Val
        115                 120                 125
Ala Asp Cys Tyr Thr Asp Phe His Ile Asp Phe Gly Gly Ser Ser Val
    130                 135                 140
Tyr Tyr His Ile Leu Lys Gly Lys Lys Thr Phe Phe Phe Ile Pro Pro
145                 150                 155                 160
Lys Asp Lys His Leu Lys Lys Tyr Glu Asp Trp Cys Asn Ser Pro Ala
                165                 170                 175
Gln Asp Ser Thr Phe Leu Gly Asp Gln Thr Lys Glu Cys Tyr Arg Val
            180                 185                 190
Asp Leu Ser Glu Gly Asp Thr Met Leu Ile Pro Ser Gly Trp Ile His
        195                 200                 205
Ala Val Trp Thr Pro Thr Asn Ser Leu Val Ile Gly Gly Asn Phe Leu
    210                 215                 220
Thr Arg Leu Asn Tyr Gly Met Gln Ile Lys Val Ala Lys Ile Glu Lys
225                 230                 235                 240
Asp Thr Lys Val Pro Arg Lys Phe Arg Tyr Pro Phe Phe Gln Arg Ile
                245                 250                 255
Gln Trp Tyr Thr Ala Leu Lys Tyr Leu Glu Asp Asp Pro Ile Pro Gln
            260                 265                 270
```

```
Ser Val Leu Asn Ala Phe Ala Glu Asp Glu Asn Tyr Arg Phe His Arg
        275                 280                 285
Ala Tyr Pro Ile Tyr Tyr Glu Phe Gly Glu Arg Glu Asn Lys Ala Pro
    290                 295                 300
Ala Gly Asp Pro Tyr His Asn Ser Arg Phe Tyr Ser Gln Ala Glu Leu
305                 310                 315                 320
Glu Gly Leu Pro Asp Leu Ala Lys Tyr Leu Leu Arg Thr Ala Leu Ile
                325                 330                 335
Ala Ser Gly Tyr Ile Val Glu Gly Gly Leu His Asn Ala Gly Arg Arg
            340                 345                 350
Thr Lys
```

<210> 24166
<211> 197
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (20),(32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24166

```
Ser Phe Leu Ser Gly Asn Leu Gln Pro Arg Met Ser Ala Gln Arg Gln
1                   5                   10                  15
Ala Ser Phe Xaa Ser Gln Thr Pro His Phe Ser Pro Ala Glu Leu Xaa
            20                  25                  30
Tyr Leu Tyr Thr Ser Leu Ala Leu Pro Asp Ser Pro Ile Arg Pro Asp
        35                  40                  45
Gly Arg Ser Pro Thr Gln Phe Arg Pro Leu Thr Ala Glu Thr Asp Ile
    50                  55                  60
Leu Pro Gly Thr Asn Gly Ser Ala Arg Val Gly Phe Ala Asp Gly Thr
65                  70                  75                  80
Gln Ala Ile Val Gly Val Lys Ala Glu Val Glu Lys Thr Ala Leu Ala
                85                  90                  95
Ala Asp Ala Leu Lys Val Ser Gln Leu Ser Ser Gly Asp Asp Tyr Thr
            100                 105                 110
Ala Asp Gln Gly Ala Asp Gly Lys Glu Gly Met Gly Ala Ala Gly Gly
        115                 120                 125
His Glu Ser Trp Val Gln Ile Ser Ile Glu Ile Pro Gly Phe Arg Asp
    130                 135                 140
Asp Asp Ala Leu Pro Val Phe Leu Ser Glu Met Met Arg Glu Pro Leu
145                 150                 155                 160
Ile Glu Ser Val Ser Ser Ala Gln Gly Gly Asp Val Glu Met Ala Gly
                165                 170                 175
Gly Leu Lys Gly Arg Leu Val Ile Ser Ser Pro Thr Glu Ala Gly Arg
            180                 185                 190
Thr Arg Val Gln Lys
        195
```

<210> 24167
<211> 99
<212> PRT
<213> A.fumigatus

<400> 24167
Cys Arg Gly Glu Cys Val Gly Thr Gln Asp Asn Val Leu Trp Gly Ser
1 5 10 15
Gly Phe Thr Gly Asn Pro Asp Phe Trp Leu Asp Ser Cys Pro Asp Leu
20 25 30
Arg Glu Ile Gly Lys Ser Val Cys Val Thr Ala Tyr Thr Val Ile Val
35 40 45
Trp Thr Ser Leu Arg Val Asp Ala Lys Gly Ser Lys Met Cys Ala Thr
50 55 60
Thr Ser Gly Asp Thr Thr Arg Thr Thr Arg Leu Asn Lys Ser Met Ile
65 70 75 80
Pro Glu Pro Arg Cys Val Leu His Ser Thr Thr Val Gln Leu Arg Ser
85 90 95
Glu Ser Ala

<210> 24168
<211> 81
<212> PRT
<213> A.fumigatus

<400> 24168
Pro Arg Phe Gly Tyr Thr Ser Ser Asn Pro Leu Trp Ile Thr Thr Ile
1 5 10 15
Asn Leu Pro Ala Gly Thr Thr Phe Gln Tyr Lys Phe Ile Lys Lys Glu
20 25 30
Thr Asp Gly Arg Val Ile Trp Glu Ser Asp Pro Asn Arg Ser Tyr Thr
35 40 45
Val Pro Thr Gly Cys Ser Ser Thr Asn Gly Thr Ala Thr Gly Arg Leu
50 55 60
Ala Gly Glu Leu Gly Arg Gly Met Gly Lys Cys Trp Val Asp Phe Leu
65 70 75 80
Ser

<210> 24169
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24169
Leu Glu Gln Val Val Asp Glu Asp Phe Pro Pro Leu Gly Thr Pro Leu
1 5 10 15
Lys Asp Lys Arg Pro Val Asp Ser Phe Gly Phe Leu Leu Arg Ser His
20 25 30
Leu Pro Asn Asp Thr Gln Gly Thr Thr Arg Ala Gly Thr Pro Thr Leu
35 40 45
Pro Pro Gly Leu Pro Leu Pro His Ala His Pro Ala Ser Ser Leu Phe
50 55 60
Gln Ser Pro Leu Asn Pro Ser Ser Pro Ser Leu Ser Ile Ser Met Pro
65 70 75 80
Pro Pro Gly Leu Asn Ile Thr Arg Ser Lys Pro Gly Thr Pro Ser Gln
85 90 95
Asn Phe Ser Glu Ile Glu Ser Gln Arg Pro Ser Pro Glu Pro Arg Glu
100 105 110
Thr Pro Glu Ser Val Pro Pro Ser Lys Phe Lys Asn Ile Ser Glu Ile

```
        115                 120                 125
Ser Leu Gly Ser Pro Leu Pro Lys Ser Ala Gln Ile Ala Arg Thr Gln
    130                 135                 140
Ala Lys Pro Glu Leu Ser Ala Ser Val Phe Thr Thr Gly Ala Lys Asp
145                 150                 155                 160
Thr His Lys
```

<210> 24170
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24170

```
Thr Leu Ser Ala Gly Pro Ser Thr Pro Val Val Lys Thr Lys Gln Ala
1               5                   10                  15
Arg Ser Leu Leu His Pro Val Glu Arg Gln Gln His Ala Asn Lys Leu
            20                  25                  30
Pro Lys Arg Arg Lys Ala Arg Arg Lys Pro Ile Trp Arg Trp Lys Thr
        35                  40                  45
Glu Thr Val Ser Pro Trp Arg Pro Cys Ser Ile Leu Val Arg Arg Arg
    50                  55                  60
Gly Cys Ala Gly Ser Ala Arg
65                  70
```

<210> 24171
<211> 264
<212> PRT
<213> A.fumigatus

<400> 24171

```
Arg Gly Ser Phe Asp Pro Arg Gly Glu Asp Glu Ala Ser Pro Lys Leu
1               5                   10                  15
Ile Ala Ser Gly Arg Thr Pro Ala Ala Arg Lys Gln Ala Thr Glu Ala
            20                  25                  30
Ala Glu Gly Gln Glu Glu Ala Asn Leu Glu Val Glu Asn Arg Asn Arg
        35                  40                  45
Ile Thr Met Ala Ala Val Leu Asp Pro Arg Pro Lys Ala Arg Met Arg
    50                  55                  60
Trp Glu Arg Lys Met Ile Val Arg Glu Val Arg Arg Arg Gly Arg Leu
65                  70                  75                  80
Thr Lys Thr Glu Arg Ile Met Arg Thr Glu Arg Glu Ser Leu Ser Lys
                85                  90                  95
Ser His Trp Phe Lys Thr Ser Val Lys Lys Leu Gly Pro Leu Ala Arg
            100                 105                 110
Gln Ile Ala Gly Lys Asn Ile Asp Glu Ala Met Leu Gln Met Arg Phe
        115                 120                 125
Ser Lys Lys Lys Val Ala Lys Asp Val Leu Glu His Leu Glu His Ala
    130                 135                 140
Lys Asn Val Ala Ile Val Arg Ser Gly Met Gly Leu Gly Asn Ala Ala
145                 150                 155                 160
Asp Gln Lys Pro Ile Thr Ile Thr Leu Lys Asn Gly Glu Arg Lys Thr
                165                 170                 175
Ile Thr Asn Pro Ser Ser Ile Tyr Ile Ala Gln Ala Trp Val Asn Arg
            180                 185                 190
Gly Pro Tyr Gly Val Asp Tyr Asp His Arg Ala Arg Gly Gln Ile Asn
```

```
        195                 200                 205
Arg Leu Arg Pro Pro Tyr Thr Ser Leu Ser Val Leu Leu Lys Glu Glu
    210                 215                 220
His Thr Arg Ile Arg Glu Trp Arg Asp Arg Glu Ala Glu Ala Leu Arg
225                 230                 235                 240
Lys Arg Lys Ala Gln Leu Trp Thr Gln Leu Pro Asp Arg Lys Ile Thr
                245                 250                 255
Ala Gln Asn Gln Tyr Tyr Ser Trp
            260
```

<210> 24172
<211> 98
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24172

```
Ser Ser Arg Thr Phe Thr Val Gln Asn Phe Gly Lys Xaa Tyr Arg Ala
1               5                   10                  15
Cys Gly Asn Cys Ser Lys Gln Phe Lys Arg Thr Val Glu Ile Ser Gly
            20                  25                  30
Val Lys Ala Ser Ser Gly Lys Ala Phe Val Gly Ile Asn Ser Asn Tyr
        35                  40                  45
Gly Asp Thr Ala Thr Ile Ser Gly Cys Ala Ser Ser Val Lys Glu Ile
    50                  55                  60
Cys Val Glu Tyr Glu Gly Thr Asp Asn Asn Lys Lys Glu Pro Ala Lys
65                  70                  75                  80
Lys Ser Ser Gly Pro Ser Asn Ala Cys Lys Tyr Lys Glu Pro Leu Ala
                85                  90                  95
Ser Cys
```

<210> 24173
<211> 77
<212> PRT
<213> A.fumigatus

<400> 24173

```
Leu Lys Trp His Ile Ser Leu Ser Ile Pro Ile Ser Val Leu Gln Phe
1               5                   10                  15
Phe Asn His Asn Cys Asn Asn Leu Ser His Leu Gln Thr Thr Ala Asn
            20                  25                  30
Lys Thr His His Asn Val Leu Leu Cys Tyr Thr Phe Pro Thr Leu Pro
        35                  40                  45
Thr Ala Ile Leu Gln Glu Thr Arg Leu Pro Gln Leu Gln Ser Arg Glu
    50                  55                  60
Gly Arg Lys Thr Val Ser Leu Cys Met Ala Ile Gln Gly
65                  70                  75
```

<210> 24174
<211> 64
<212> PRT

<213> A.fumigatus

<400> 24174

```
Ile Ser Ser Thr Gln Leu Thr Arg Pro Gly Phe Gly Ile Ala Asn Tyr
1               5                  10                  15
Leu Asn Asp Phe Gln Ala Gln Gln Ala Arg Tyr Gln Leu Gln Glu Glu
            20                  25                  30
Glu Arg Ile Arg Gln Asn Gln Lys Leu Met Asp Ala Tyr Gly Asp Lys
        35                  40                  45
Asp Ser Leu His Asp Val Gln His Ala Leu Glu Ala Tyr Glu Ile Gln
    50                  55                  60
```

<210> 24175
<211> 392
<212> PRT
<213> A.fumigatus

<400> 24175

```
Arg Val Tyr Arg Pro Thr Pro Val Asp Gln Asn His Lys Leu Thr Met
1               5                  10                  15
Ser Arg Leu Pro Ser Val Ser Ser Leu Met Ser Pro Pro Glu Ser Lys
            20                  25                  30
Pro Phe Glu Asn Phe Asn Thr Ser Phe Ser Pro Tyr Ser Thr Ser Gln
        35                  40                  45
Asp Tyr Cys Ser Phe Val His Gly Met Arg Leu Pro Pro Ile Ser Gly
    50                  55                  60
Glu Arg Lys Arg Thr Gln Ser Glu Met Asp Leu Pro Ser Pro Pro Val
65                  70                  75                  80
Thr Pro Tyr Thr Gly Asn Lys Lys Arg Lys Ser Glu Val Ser Glu Glu
                85                  90                  95
Ile Glu Arg Asp Val Val Leu Gly Ser Ser Arg Asp Pro Val Leu Phe
            100                 105                 110
Pro His His Asp Ser Leu Thr Asp Val Ala Thr Asp Glu Pro Leu Phe
        115                 120                 125
Gly Gln Ile Leu Pro Ala Pro Ala Glu Ala Leu Met Glu Gln His Ile
    130                 135                 140
Asp Ser His Met Ala Arg Phe Asp Asn Lys Val Asn Lys Pro Thr Arg
145                 150                 155                 160
Asp Glu Tyr Ile Leu Ala Leu Ser Cys Val Pro Val Val Ser Ala Gln
                165                 170                 175
Tyr Asn Arg Asn Pro Ala Ala Trp Ala Lys Glu Glu Arg Glu Thr Leu
            180                 185                 190
Glu Arg Gln Leu Phe Met Met Asn Arg His Arg Pro Gln Ser Met Asp
        195                 200                 205
Ala Asn Leu Lys Lys Ile Ala Pro Ala Arg Ser Lys Arg Ala Val Val
    210                 215                 220
Thr Gln Pro Arg Ala Gln Arg Thr Pro Arg Ala Lys Arg Ser Pro Arg
225                 230                 235                 240
Ser Thr Pro His Gln Lys Gly His Glu Phe Phe Asp Leu His Thr Gln
                245                 250                 255
Thr Ser Ala Arg Ala Pro Arg Gly Ile Gly Thr Asn Arg Asp Asp Thr
            260                 265                 270
Asp Tyr Thr Ser Ile Gln Asp Phe Ser Pro Ser Pro Glu Thr Leu Gly
        275                 280                 285
Gly Asn Ala Lys Ala Leu Lys Ala Asp Trp Lys Gly Gln Met Leu Asp
    290                 295                 300
```

```
Phe Ser Gln Asp Pro Asp Arg His Leu Leu Ser Pro Ala Glu Leu Ser
305                 310                 315                 320
Leu Ala Ser Thr Leu Arg Leu Ser Cys Ala Thr Tyr Leu Cys Ser Lys
                325                 330                 335
Arg Arg Ile Phe Glu Ala Arg Val Arg Ala Leu Arg Ile Gly Lys Glu
            340                 345                 350
Phe Arg Lys Thr Asp Ala Gln Gln Ala Cys Lys Ile Asp Val Asn Lys
        355                 360                 365
Ala Ser Lys Leu Trp Thr Ala Tyr Asp Arg Val Gly Trp Phe Asp Ser
    370                 375                 380
Glu His Phe Arg Gln Tyr Val Glu
385                 390
```

<210> 24176
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24176

```
Lys Val Ile His Ile Lys Lys Ala Ser Arg Gln Leu Ile Thr Gln Cys
1               5                   10                  15
Gln Phe Asn Asn Leu Leu Ile Ser Pro Ala Tyr Arg Thr Met Thr Met
            20                  25                  30
Ala Asp Tyr Gln Gln Thr Gln Thr Arg Ser Ser Asn Lys Ser Asn Ala
        35                  40                  45
Phe Cys Pro Ser Leu Ala Phe Ser Phe Asn His Ala
    50                  55                  60
```

<210> 24177
<211> 110
<212> PRT
<213> A.fumigatus

<400> 24177

```
Ser His Leu Asn His Leu Asn Pro Leu Asn Pro Asn Ile Leu His Pro
1               5                   10                  15
Val Asn Pro Asp His Pro Leu Thr Asp Asp Met Pro Ser Ser Arg Leu
            20                  25                  30
Ser Tyr Cys Thr Met Leu Leu Leu Ile Ala Ser Ile Phe Ala Lys Val
        35                  40                  45
Gln Val Arg Glu Phe Thr Ala Lys Arg Gly His Arg Ile Ile Gln Pro
    50                  55                  60
Thr Leu Ser Lys Lys Leu Phe Arg Val Gln Asp Ser Ser Leu Val Thr
65                  70                  75                  80
Pro Gly Pro Ile Glu Asn Lys Asn Val Asp Asn Val Ser Glu Ser Ala
                85                  90                  95
Met Leu Trp Ser Ser Pro Arg Gly Trp Lys Glu Arg Cys Gln
            100                 105                 110
```

<210> 24178
<211> 193
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (136)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24178
Ser Thr Leu Pro Asp Glu Val Pro Ala Thr Tyr His Asn Ser Thr Thr
1 5 10 15
Thr Ser Gly Ala Thr Ser Asp Gly Met Thr Ser Ala Tyr Ser Lys Val
20 25 30
Lys Glu Leu Thr Thr Ala Ser Ser Ala Gln Val Leu Thr Val Ser Gly
35 40 45
Tyr Leu Ser Ala Phe Leu Leu Ser Phe Thr Ile Asn Arg Ala Phe Leu
50 55 60
Ala Ser Ala Leu Leu Pro Leu Tyr Leu Leu Ser Leu Ala Tyr Arg Val
65 70 75 80
Leu Pro Thr Ile Phe Arg Asn Ala Pro Arg Leu Leu Leu Pro Asn Trp
85 90 95
Trp Lys Thr Leu Val Arg Asp Ala Glu Gln Tyr Arg Gln Arg Val Asp
100 105 110
Ala Leu Ala Gln Ser Pro Leu Glu Gly Thr Tyr Arg Phe Gln Asp Asp
115 120 125
Glu Ile Leu Arg Thr Asp Arg Xaa Gly Lys Gly Trp Met Ala Asp Met
130 135 140
Pro Trp Lys Asp Asn Val Glu Glu Ser Thr Val Cys Gly Ala Asn Ala
145 150 155 160
Arg Tyr Val His Leu Lys Pro Ser Tyr Pro Ser Ile Arg Thr Glu Tyr
165 170 175
Asn Ala Ser Pro Arg Thr Ile Val Leu Pro Ala Trp Glu Ser Pro Pro
180 185 190
Gly

<210> 24179
<211> 258
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16),(19),(20)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24179
Gln Thr Glu Leu Val Ala Val Arg Ser Pro Glu Lys Val Leu Thr Xaa
1 5 10 15
Phe Phe Xaa Xaa Ser Lys Pro Met Glu Cys Phe Trp Leu Pro Glu Lys
20 25 30
Glu Phe Ser Phe Gln Phe Met Thr Leu Pro Phe Phe Ser Lys Ile Ser
35 40 45
Phe Ile Thr Pro Asp Met Gly Met Val Tyr Ala Gly Met Val Pro Asp
50 55 60
Tyr Arg Val Leu Val Asp Lys Ala Arg Lys Val Ser His Thr Gly Tyr
65 70 75 80
Lys Arg Ile Tyr Asn Glu Tyr Pro Pro Thr Arg Ile Leu Val Gln Asp
85 90 95
Val Ala Arg Val Val Gln Glu Ala Thr Gln Ser Gly Gly Val Arg Pro
100 105 110

```
Tyr Gly Val Ser Leu Leu Ile Ala Gly Trp Asp Glu Gly Ile Glu Pro
        115                 120                 125
Glu Thr Gly Glu Ser Gln Arg Gly Asp Glu Glu Gly Asp Leu Lys Lys
    130                 135                 140
Ala Thr Val Ala Thr Gly Lys Thr Gly Gly Ile Leu Lys Gly Gly Pro
145                 150                 155                 160
Ser Leu Tyr Gln Val Asp Pro Ser Gly Ser Tyr Tyr Pro Trp Lys Ala
                165                 170                 175
Thr Ala Ile Gly Lys His Ala Thr Ser Ala Lys Thr Phe Leu Glu Lys
            180                 185                 190
Arg Tyr Thr Glu Gly Leu Glu Leu Glu Asp Ala Ile His Ile Ala Leu
        195                 200                 205
Leu Thr Leu Lys Glu Thr Ile Glu Gly Glu Met Asn Gly Asp Thr Ile
    210                 215                 220
Glu Ile Gly Gly Cys Tyr Leu Ser Lys Ser Asn Val Ala Thr Lys His
225                 230                 235                 240
Glu Thr Asp Leu Arg Arg Tyr Cys Arg Pro Ser Cys Gly Ser Ser Ser
                245                 250                 255
Gly Leu
```

<210> 24180
<211> 263
<212> PRT
<213> A.fumigatus

<400> 24180

```
Arg Thr Ile Val Ala Gly Val Gly Ala Val Met Cys Ser Tyr Asn Gln
1               5                   10                  15
Ile Asn Asn Ser Tyr Gly Cys Gln Asn Ser Gln Thr Leu Asn Lys Leu
            20                  25                  30
Leu Lys Ala Glu Leu Gly Phe Gln Gly Phe Val Met Ser Asp Trp Ser
        35                  40                  45
Ala His His Ser Gly Val Gly Ala Ala Leu Ala Gly Leu Asp Met Ser
    50                  55                  60
Met Pro Gly Asp Ile Ser Phe Asp Asp Gly Leu Ser Phe Trp Gly Thr
65                  70                  75                  80
Asn Leu Thr Val Ser Val Leu Asn Gly Thr Val Pro Ala Trp Arg Val
                85                  90                  95
Asp Asp Met Ala Val Arg Ile Met Thr Ala Tyr Tyr Lys Val Gly Arg
            100                 105                 110
Asp Arg Leu Arg Ile Pro Pro Asn Phe Ser Ser Trp Thr Arg Asp Glu
        115                 120                 125
Tyr Gly Trp Glu His Ser Ala Val Ser Glu Gly Ala Trp Thr Lys Val
    130                 135                 140
Asn Asp Phe Val Asn Val Gln Arg Ser His Ser Gln Ile Ile Arg Glu
145                 150                 155                 160
Ile Gly Ala Ala Ser Thr Val Leu Leu Lys Asn Thr Gly Ala Leu Pro
                165                 170                 175
Leu Thr Gly Lys Glu Val Lys Val Gly Val Leu Gly Glu Asp Ala Gly
            180                 185                 190
Ser Asn Pro Trp Gly Ala Asn Gly Cys Pro Asp Arg Gly Cys Asp Asn
        195                 200                 205
Gly Thr Leu Ala Met Ala Trp Gly Ser Gly Thr Ala Asn Phe Pro Tyr
    210                 215                 220
Leu Val Thr Pro Glu Gln Ala Ile Gln Arg Glu Val Ile Ser Asn Gly
```

225 230 235 240
Gly Asn Val Phe Ala Val Thr Asp Asn Gly Ala Leu Ser Gln Met Ala
245 250 255
Asp Val Ala Ser Gln Ser Arg
260

<210> 24181
<211> 137
<212> PRT
<213> A.fumigatus

<400> 24181
Ser Phe Leu Thr Ile Ala Asn Ser Val Ser Leu Val Phe Val Asn Ala
1 5 10 15
Asp Ser Gly Glu Gly Phe Ile Ser Val Asp Gly Asn Glu Gly Asp Arg
20 25 30
Lys Asn Leu Thr Leu Trp Lys Asn Gly Glu Ala Val Ile Asp Thr Val
35 40 45
Val Ser His Cys Asn Asn Thr Ile Val Val Ile His Ser Val Gly Pro
50 55 60
Val Leu Ile Asp Arg Trp Tyr Asp Asn Pro Asn Val Thr Ala Ile Ile
65 70 75 80
Trp Ala Gly Leu Pro Gly Gln Glu Ser Gly Asn Ser Leu Val Asp Val
85 90 95
Leu Tyr Gly Arg Val Asn Pro Asn Ala Lys Thr Pro Phe Thr Leu Gly
100 105 110
Gln Asp Phe Gly Ser Leu Thr Gly Ala Pro Leu Leu Thr Glu Pro Lys
115 120 125
Gln Trp Ala Met Val Ala Ser Pro Gly
130 135

<210> 24182
<211> 124
<212> PRT
<213> A.fumigatus

<400> 24182
Arg Arg Thr Asn Val Ala Ala Thr Trp Asp Lys Thr Leu Ala Tyr Leu
1 5 10 15
Arg Gly Lys Ala Met Gly Glu Glu Phe Asn Asp Lys Gly Val Asp Ile
20 25 30
Leu Leu Gly Pro Ala Ala Gly Pro Leu Gly Lys Tyr Pro Asp Gly Gly
35 40 45
Arg Ile Trp Glu Gly Phe Ser Pro Asp Pro Val Leu Thr Gly Val Leu
50 55 60
Phe Ala Glu Thr Ile Lys Gly Ile Gln Asp Ala Gly Val Ile Ala Thr
65 70 75 80
Ala Lys His Tyr Ile Leu Asn Glu Gln Glu His Phe Arg Gln Val Gly
85 90 95
Glu Ala Gln Gly Tyr Gly Tyr Asn Ile Thr Glu Thr Ile Ser Ser Asn
100 105 110
Val Asp Asp Lys Thr Met His Glu Leu Tyr Leu Trp
115 120

<210> 24183
<211> 68

<212> PRT
<213> A.fumigatus

<400> 24183
Cys Leu Ala Val Ala Ile Thr Pro Ala Ser Trp Ile Pro Leu Ile Val
1 5 10 15
Ser Ala Lys Ser Thr Pro Val Arg Thr Gly Ser Gly Glu Lys Pro Ser
20 25 30
Gln Ile Leu Pro Pro Ser Gly Tyr Leu Pro Arg Gly Pro Ala Ala Gly
35 40 45
Pro Ser Lys Met Ser Thr Pro Leu Ser Leu Asn Ser Ser Pro Met Ala
50 55 60
Leu Pro Arg Arg
65

<210> 24184
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24184
Ser Gln Trp Pro Ala Asp Gly Arg Ser Val Ile His Arg Ala Asp Tyr
1 5 10 15
His Arg Ile Leu Leu Asp Lys Ala Arg Asp Leu Gly Val Ala Ile Arg
20 25 30
Leu Gly Ala Leu Val Glu Lys Val Leu Val Asp Asp Thr Ala Val Ile
35 40 45
Val Gly Ser Glu Thr Ile Ala Gly Asp Val Ile Ile Gly Ala Asp Gly
50 55 60
Ser Phe Ser Leu Ser Asn Ser His Leu Val Phe Thr Thr Gly Leu Glu
65 70 75 80
Gly Ser Thr Gly Asp Leu
85

<210> 24185
<211> 145
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (131)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24185
Arg His Ser Phe Phe Leu His Phe Val Ile Leu Ile Phe Val Ser Ile
1 5 10 15
Val Thr Leu Thr Trp Leu Gly Ala Ala Ala Ala Leu Val Leu Ser Thr
20 25 30
Trp Pro Thr Ala Ala Ser Ala Asn Pro Gly Phe Arg Lys Ala Ala Ser
35 40 45
Pro Arg Tyr Arg Ser Ser Val Ser Ala Cys Pro Glu Arg Tyr Ser Asp
50 55 60
Ala Gly Pro Asn Thr Gly Asn Trp Ser Val Tyr Ala Asp Phe Lys Leu
65 70 75 80
Ile His Lys Cys Lys Glu Asn Met Phe Tyr His Phe Ser Leu Phe Asp

```
                85                  90                  95
Asp Val Asp Asp Gln Glu Arg Pro His Arg Leu Ser Ser Leu Leu Leu
            100                 105                 110
Leu Trp Gly Gln Thr Leu Ala Val Ser Leu Pro Pro Leu Arg Arg Ile
        115                 120                 125
Ala Ser Xaa Arg Val Trp Leu Met Leu Asn Leu Asn Ser Gly Trp Trp
    130                 135                 140
Val
145
```

<210> 24186
<211> 128
<212> PRT
<213> A.fumigatus

<400> 24186

```
Pro Gly Val Gly Gly Phe Val Asp Glu Ile Gly Gly Val Ile Gly Val
1               5                   10                  15
Gln Lys Ile Asn Val Asp Gln Leu Arg Ala Asp Val Lys Lys Tyr Ile
            20                  25                  30
Asp Asn Ile Lys Asn Val Gln Ala Ser Leu Asp Ala Gly Asn Leu Ser
        35                  40                  45
Asp Pro Lys Lys Phe His Pro Gln Asp Arg Val Ser Gln Ile Val Gln
    50                  55                  60
Arg Ser Met Lys Asp Ala Arg Arg Lys Ala Glu Gln Met Gln Leu Tyr
65                  70                  75                  80
Leu Glu Glu Met Val Lys Thr Tyr Asp Asp Ile Met Val Phe Tyr Gly
                85                  90                  95
Glu Asp Asn Thr Asp Glu Gly Ala Arg Arg Asp Phe Phe Ala Lys Leu
            100                 105                 110
Ala Ser Phe Leu Val Glu Trp Lys Val Ser Phe Cys Val Arg Ser Leu
        115                 120                 125
```

<210> 24187
<211> 242
<212> PRT
<213> A.fumigatus

<400> 24187

```
Arg Gln Thr Val Ala Ser Ala Ala Leu Leu Leu Ala Gln Val Asn Cys
1               5                   10                  15
Val Leu Thr Arg Pro Gln Gly Thr Asn Ile Leu Lys Val Ser Thr Ser
            20                  25                  30
Asp Val Val Gln Pro Gly Gly Leu Ala Asn Ile Tyr Leu Asp Trp Arg
        35                  40                  45
Glu Ser Tyr Ser Gly Ile Ile Glu Ala Ile Tyr Ala Ser Cys Leu Ser
    50                  55                  60
Pro Asp Thr Ser Ser Thr Gln Ile Ile Gly Arg Phe Thr Val Asp Gly
65                  70                  75                  80
His Pro Pro Gln Arg Leu Ala Trp Ala Val Ser Asp Asp Ala Pro Thr
                85                  90                  95
Asp Asn Cys Ile Tyr Val His Gly Thr Gln Ser Asp Arg Leu Glu Pro
            100                 105                 110
Asn Leu Leu Gly Lys Ser Glu Pro Val Arg Leu Ser Gln Met Val Lys
        115                 120                 125
Lys Arg Ser Val Ala Asp Ala Asn Val Pro Leu Leu Lys Asp Phe Asp
```

```
    130                 135                 140
Ser Leu Gly Ala Trp Phe Asp Gly Val Ala Ala Ile Lys Gln Lys Thr
145                 150                 155                 160
Ala Thr His Gly Gly Val Ala Ser Ser His Ser Ser Lys Asp Ser Lys
                165                 170                 175
Ile Ala Ile Val Gly Ala Gly Ile Ser Gly Leu Ala Thr Gly Leu Met
            180                 185                 190
Leu Asp Ser Val Gly Val His Asn Trp Glu Ile Ile Glu Ala Ser Asp
        195                 200                 205
Arg Val Gly Gly Arg Phe Arg Thr Arg Tyr Val Ala Gly Thr Gln Glu
    210                 215                 220
Trp Ala Glu Met Gly Pro Met Arg Leu Pro Leu Phe Cys His Leu Gln
225                 230                 235                 240
Ala Gln
```

<210> 24188
<211> 322
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (307)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24188

```
Ser Ala Cys Pro Ser Ser Pro Val Val Lys Met Ser Arg Gln Ile Asp
1               5                  10                  15
Ser Ile Asn Glu Ser Leu Ala Asp Phe Ser Leu Gly Gln Lys Phe Arg
            20                  25                  30
Met Pro Ser Phe Tyr Glu His Ser Arg Gly Ile Leu Leu Tyr Gly Pro
        35                  40                  45
Lys Gly Thr Gly Lys Ser Ala Leu Leu His Gln Ile Gln Ala Ala Gly
    50                  55                  60
Trp Lys Lys Thr Phe Ser Leu Gly Ser Ser Met Phe Ser Arg Asn Ile
65                  70                  75                  80
Ser Asp Ser Glu Thr Lys Val Arg Asn Val Phe Gln Glu Ala Val Arg
                85                  90                  95
Cys Gln Pro Ser Ala Ile Ile Ile Asp Gln Leu Asp Phe Ile Ala Pro
            100                 105                 110
Lys Arg Ala Ser Leu Asp Ser Gln Ser Leu Thr Ser Val Leu Cys Glu
        115                 120                 125
Cys Leu Asp Met Ala Lys Ser Ala Leu Val Leu Val Val Ala Ala Thr
    130                 135                 140
Arg His Pro Asn Asp Val Asp Asp Ala Leu Arg Thr Pro His Arg Leu
145                 150                 155                 160
Ala Ile Glu Ile Glu Met Gln Val Pro Thr Ala Gln Asp Arg Ala Glu
                165                 170                 175
Ile Leu Arg Ala Ile Cys Gly Ser Ser Thr Arg Gln Leu Ser Glu Glu
            180                 185                 190
Leu Ile Glu Thr Ile Ala Glu Lys Thr His Gly Tyr Val Gly Ala Asp
        195                 200                 205
Leu Phe Ala Leu Leu Gln Leu Val Cys Arg Lys Ala Arg Gln Arg Gln
    210                 215                 220
Leu Cys Gln Ser His Ser Pro Thr Arg Leu Cys Asp Val Thr Ser Ser
```

```
225                 230                 235                 240
Pro Asp Leu Val Ala Gly Val Glu His Ile Glu Glu Asn Met Val Val
                245                 250                 255
Asp Leu Asp Ile Glu Glu Ser Asp Val Met Ser Ala Leu Gln Glu Thr
            260                 265                 270
Arg Pro Thr Ala Met Arg Glu Val Phe Leu Glu Thr Pro Lys Val Arg
        275                 280                 285
Trp Thr Asp Ile Gly Gly Gln His Asp Ile Lys Lys Arg Leu Gln Lys
    290                 295                 300
Ala Val Xaa Arg Pro Leu Lys Val Ser Ser Gly Pro Leu Ala Leu Leu
305                 310                 315                 320
Thr Arg
```

<210> 24189
<211> 131
<212> PRT
<213> A.fumigatus

<400> 24189

```
His Pro Val Asp Pro Ser Ser Pro Val Val Lys Thr Ile Ile Ser Asp
1               5                   10                  15
Asn Ile Arg Arg Gln Phe Ser Arg Thr Leu Phe Asp Ser Ser Phe Ile
            20                  25                  30
Tyr Gln Gln Gln Arg Phe Gly Ala Pro Ile Lys Tyr Ser Asp Lys Glu
        35                  40                  45
Pro Leu Gln Asp Leu Tyr Asn Ile Arg Pro Gly Arg Thr Phe Asp Pro
    50                  55                  60
Pro Pro Thr Pro Arg Ala Arg Met Ala Tyr Ile Leu Ile Asp Met Leu
65                  70                  75                  80
Phe Glu Leu Ala Ser Ala Ser Gln Pro Asn Arg Met Asn Glu Tyr His
                85                  90                  95
Leu Pro Pro Gln Lys Lys Arg Gln Val Ile Arg Ser Lys Arg Gln Pro
            100                 105                 110
Val Phe Cys Ser Arg Ala Leu Ser Pro Arg Ile Ser Tyr Ser Asp Ala
        115                 120                 125
Pro Cys Pro
    130
```

<210> 24190
<211> 157
<212> PRT
<213> A.fumigatus

<400> 24190

```
Leu Leu Ile Leu Leu Lys Pro Leu Leu Ile Thr Arg Val Met Phe Thr
1               5                   10                  15
Val Thr Met Ala Ser Leu Gly Gln Glu Glu Gly Gly Ala Arg Thr Leu
            20                  25                  30
Ser Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Ser Asp Ala His Ser
        35                  40                  45
Lys Ile Ser Pro Tyr Val Leu Lys Leu Arg Ser Ala Pro Pro Asn Tyr
    50                  55                  60
Phe Tyr Lys Pro Gln Ile Lys Pro Glu His Thr Asp Pro Phe Ala Ala
65                  70                  75                  80
Pro Thr Gly Pro Tyr Phe Phe Tyr Gly Thr Leu Thr Asp Pro Leu Met
```

```
                85                  90                  95
Ile Ala Glu Ile Leu Glu Leu Asn Glu Glu Pro Lys Leu Arg Pro Ala
            100                 105                 110
His Ile Asn Gly Phe Glu Cys Lys Met Leu Gly Ala Ile Phe Gln Leu
        115                 120                 125
Gly Leu Ile Gly Pro Asn Ser Gly Gly Gly Lys Thr His Arg Thr Cys
    130                 135                 140
Ser Ala Leu Arg Arg Met Pro Asn Arg Leu Ala Ala Phe
145                 150                 155
```

<210> 24191
<211> 104
<212> PRT
<213> A.fumigatus

<400> 24191

```
Gly Leu Ser Phe Pro His Leu Ile Ile Glu His Phe Val Val Asp Ala
1               5                   10                  15
Leu Thr Tyr Gln Leu Val Ser Leu Ser Asp Lys Ala Ser Ser Pro Arg
            20                  25                  30
Gly Tyr Arg Thr Ser Ser Arg Leu Thr Tyr Glu Phe Glu Arg Val Arg
        35                  40                  45
Ile Ile Ile Leu Gln Leu Val Gln Arg Asp Lys Cys Ser Gly Pro Val
    50                  55                  60
Met Arg Lys Val Asp Met Cys Ile Ala Asn Ile Lys Thr Arg Gly Gln
65                  70                  75                  80
Leu His Leu Gly His Trp Ser Gly Asp Asn Asn Asn Asn Asn Asn Met
                85                  90                  95
Ala Trp Pro Phe Arg Arg Ser Arg
            100
```

<210> 24192
<211> 88
<212> PRT
<213> A.fumigatus

<400> 24192

```
Arg Pro Leu Ser Ala Ala Leu Ser Asp Gly Lys Ser Ala Tyr Ile Tyr
1               5                   10                  15
Pro Asn Asp Glu Gln Glu Leu Asp Arg Leu Asp Met Gln His His Met
            20                  25                  30
Ile Lys Leu Val Asn Asp Gly Arg Leu Phe Phe Ala Pro Ile His Ser
        35                  40                  45
Pro Lys Arg Ile Leu Asp Ile Gly Thr Gly Ser Gly Ile Trp Pro Ile
    50                  55                  60
Glu Met Gly Ala Ser Ser Ser Cys His Ser Ile Thr His Ser Thr Gln
65                  70                  75                  80
Ile Leu Thr Val Pro Leu Leu Leu
                85
```

<210> 24193
<211> 257
<212> PRT
<213> A.fumigatus

<400> 24193

```
His Leu Ile Thr Asp Ser Ile Ser Gly Gly Ile Ile Arg Asp Ala Glu
1               5                  10                  15
Asn Ala Asp Ala Gln Leu Leu Leu Ala Trp Arg Arg Ala Trp Phe Ala
            20                  25                  30
Gln Gly Phe Arg Pro Val Val Leu Gly Arg Gly Glu Ala Met Asn Asn
        35                  40                  45
Gln Leu Tyr Glu Met Val Gln Thr Leu Lys Ile Asn Lys Asp Leu Glu
    50                  55                  60
Tyr Asp Leu Phe Arg Trp Leu Ala Trp Gly His Met Gly Thr Gly Leu
65                  70                  75                  80
Leu Ala Asp Trp Arg Cys Phe Pro Met Ala Arg Tyr Asp Asp Pro Leu
                85                  90                  95
Leu Ser Tyr Phe Arg Arg Gly Val Asp Pro Ala Gln Ile Thr Arg Phe
            100                 105                 110
Asp His Ile Gly Ser Ala Leu Phe Ala Gly Glu Lys Thr Arg Ile Asn
        115                 120                 125
Asp Val Leu Lys Asn Val Val Gln Asn Ala Leu Lys Ser Val Asp Asp
    130                 135                 140
Lys Ala Arg Ser Met Leu Asp Ile Ile Pro Gly Glu Ile Phe Lys Val
145                 150                 155                 160
Glu Gln Pro Ser Ala Leu Ala Phe Tyr Thr Ser Ala Thr Ile Thr Thr
                165                 170                 175
His Tyr Pro Thr Leu Ala Glu Lys Ile Val Ser Ser Pro Thr Ala Gly
            180                 185                 190
Arg Leu Ala Leu Leu Glu Leu Val Asn Ser His Leu His Asn Thr Phe
        195                 200                 205
Gln Asn Ser Phe Gln Ala Gly Ile Ala Val Leu Lys Pro Phe Pro Glu
    210                 215                 220
His Thr Thr Ala Leu Val Glu Pro Ala Leu Arg Leu Ala Lys Ala Leu
225                 230                 235                 240
Gly Gln Cys Pro Ser Ser Pro Ile Pro Glu Ser Cys Pro Pro Asn Leu
                245                 250                 255
Pro
```

Sequence Listing

<210> 24194
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24194

```
Ser Gly Ala His Met Thr Pro Gly Lys Pro Pro Glu Gln Ile Ile Leu
1               5                  10                  15
Lys Ile Phe Val Asp Phe Gln Gly Leu Tyr His Leu Val Glu Leu Val
            20                  25                  30
Val His Arg Leu Ala Thr Ala Glu Tyr Asp Trp Pro Lys Pro Leu Ser
        35                  40                  45
Glu Pro Ser Pro Thr Pro Gly Glu Glu Lys Leu Ser Ile Ser Ile Leu
    50                  55                  60
Arg Ile Pro Tyr Tyr Pro Pro
65                  70
```

<210> 24195
<211> 112
<212> PRT
<213> A.fumigatus

<400> 24195
Gly Arg Leu Ser Phe Gln Pro Gly Gly Glu Glu Arg Gly Asn Met Ser
1 5 10 15
Gln Lys Ile Gly Ile Phe Pro Ala Ser Gly Gly Leu Gly Thr Ser Ile
20 25 30
Ile Asn His Leu Val Lys Leu Val Pro Ala Ser Gln Leu Ile Leu Ile
35 40 45
Ala Arg Asn Pro Glu Lys Leu Ala Ser Phe Ser Arg Asp Gly Ala Thr
50 55 60
Ile Arg Arg Ala Asp Tyr Asp Asp Arg Ala Ser Leu Glu Arg Val Phe
65 70 75 80
Asp Gly Val Gly Val Leu Met Leu Ile Ser Tyr Ala Ser Phe Glu Ile
85 90 95
Gln His Arg Val Glu Val Leu Phe Asn Leu Val Leu Gln Ser Glu Pro
100 105 110

<210> 24196
<211> 222
<212> PRT
<213> A.fumigatus

<400> 24196
Ile Phe Lys Val Thr Lys Gln Pro Gly Pro Gln Ser Arg His Arg Arg
1 5 10 15
Arg Pro Pro Gln Arg Arg Gln Thr His Leu Leu Leu Leu Pro Arg Leu
20 25 30
Arg Arg Arg Pro Gly Arg Val Gln Pro Arg Ala Arg His Gly Arg Pro
35 40 45
Pro Arg Asn Gly Lys Val Pro Arg Arg Thr Pro Arg Pro Leu His Leu
50 55 60
His Arg His Pro Arg Arg Pro Leu Leu Arg Val Leu Pro Asp Leu His
65 70 75 80
Arg Val Val Arg Pro Ala Pro Ala Arg Arg Gly Asp His His Pro Ala
85 90 95
Pro Gly Asp Gly Ala Arg Gly Gly Val Gly Glu Thr Arg Arg Ala Gly
100 105 110
Arg Gly His Arg Gln Asp Asp Ile Cys Val Cys Glu Glu Pro Gly Gly
115 120 125
Leu Pro Val Ser Glu Pro Gly Gly Ala Ala Phe Gly Thr Glu Gly Gly
130 135 140
Glu Ser Gly Gly Asp Gly Gly Gly Ala Gly Ala Gly Gly Gly Glu Ala
145 150 155 160
Cys Ala Asp Pro Gly Asp Leu Gly Gly Arg Val Cys Gly Ala Ala Ala
165 170 175
Asp Trp Gly Gln Ala Tyr Val Pro Arg Gly Glu Ser Val Glu Gly Val
180 185 190
Gly Asp Ser Val Gly Gly Asp Pro Gly Gly Gly Asp Gly Arg Arg Val
195 200 205
Ala Ser Ser Gly Gly His Ser Gly Glu Gly Ala Gly Gly Phe
210 215 220

<210> 24197
<211> 267
<212> PRT
<213> A.fumigatus

<400> 24197
Arg Asn Asn Gln Ala His Lys Ala Ala Ile Asp Ala Ala Arg Arg Ser
1 5 10 15
Gly Val Lys His Ile Phe Tyr Ser Ser Leu Ala Phe Ala Gly Asp Leu
20 25 30
Gly Glu Ser Ser Leu Ala His Val Met Gly Ala His Leu Ala Thr Glu
35 40 45
Lys Tyr Leu Ala Glu Leu Pro Gly His Phe Thr Tyr Thr Ala Ile Arg
50 55 60
Glu Gly Leu Tyr Ser Glu Ser Phe Pro Ile Tyr Thr Ala Trp Phe Asp
65 70 75 80
Pro His Gln Pro Val Glu Glu Ile Thr Ile Pro His Pro Gly Thr Gly
85 90 95
Pro Gly Val Ala Trp Ala Lys Arg Asp Glu Leu Gly Glu Ala Thr Ala
100 105 110
Lys Met Ile Tyr Ala Tyr Ala Lys Asn Pro Ala Gly Phe Pro Tyr Leu
115 120 125
Asn Arg Val Val Leu Leu Ser Gly Pro Arg Glu Val Ser Leu Ala Glu
130 135 140
Thr Ala Glu Val Leu Gly Arg Ala Val Gly Lys Pro Val Arg Ile Arg
145 150 155 160
Glu Ile Ser Val Asp Glu Tyr Val Ala Leu Pro Gln Ile Gly Asp Lys
165 170 175
His Thr Tyr His Gly Val Asn Leu Ser Arg Glu Trp Ala Thr Ala Trp
180 185 190
Ala Ala Ile Arg Ala Gly Glu Thr Ala Val Val Ser Pro Leu Leu Gly
195 200 205
Asp Ile Leu Gly Arg Glu Pro Glu Asp Phe Glu Thr Thr Ile Arg Ala
210 215 220
Leu Val Gly Ala Arg Tyr Ser Pro Ala Trp Ile Gly Arg Cys Arg Phe
225 230 235 240
Pro Ala Thr Gly Leu Ser Ser Gly Thr Ser Phe Pro Thr Val Met Leu
245 250 255
Gly Ser Ile Ser Tyr Ser Val Cys Pro Arg Leu
260 265

<210> 24198
<211> 137
<212> PRT
<213> A.fumigatus

<400> 24198
Glu Gln Arg Gln Glu Gly Leu Ile Cys Thr Ser Arg Asp Arg Lys Phe
1 5 10 15
Arg Phe Ser Ser Gly Met Lys His Gln Lys Arg Arg Pro Phe Pro His
20 25 30
Arg Leu Pro Asp Lys Ser Asp Pro Pro Ile Ser Val Arg Met Leu Pro
35 40 45
Ser Gly Asn Thr Ser Pro Cys Phe Asn His Cys Ser Leu Thr Gly Leu
50 55 60
Met Lys Gly Ala Phe Cys Asp Ile Thr Thr Cys Ile Pro Ile Arg Gln
65 70 75 80
Lys Asp Glu Thr Ala Met Asn Asp Lys Met Leu Asn Thr Gln Ser Pro
85 90 95
Glu Leu Ser Gln Lys Asn Gly Met Trp Thr Ala Ile Arg Thr Gln Tyr

```
            100                 105                 110
Tyr Met Leu Ile Thr Leu Thr Ser Thr Arg Thr Leu Gly Trp Ile Phe
        115                 120                 125
Val Lys Ser Ser Leu Arg His Leu Cys
    130                 135
```

<210> 24199
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24199

```
Leu Gln Gln Glu Leu Ser Asp Gly Tyr Ser Ser Ser Arg Val Cys Ala
1               5                   10                  15
Ile Tyr Val Asp Asn Pro Ser Ala Tyr Pro Thr Asp His Ala Gly Val
            20                  25                  30
Ser Gly Leu Pro Ala Pro Lys Thr Pro Ser Arg Ser Gly Leu Met Arg
        35                  40                  45
Val Leu Leu Gly Ile Trp Glu Phe Ala Met Asp Gln Trp Phe Leu Ile
    50                  55                  60
Val Ile Gly Leu Leu Ile Ala
65                  70
```

<210> 24200
<211> 162
<212> PRT
<213> A.fumigatus

<400> 24200

```
Ile Val Gly Pro Ser Ser Arg Arg Gly Arg Arg Ser Gly Ile Glu Thr
1               5                   10                  15
Leu Ser Phe Ser Ser Pro Pro Leu Thr Leu Leu Ala Ala Gly Ser Val
            20                  25                  30
Asp Gly Ser Ile Ala Leu Phe Asp Ala Ala His Arg Phe Ala Val Arg
        35                  40                  45
Arg His Ile Lys Glu Ala His Glu Gly Ala Ala Val Val Lys Val Glu
    50                  55                  60
Phe Leu Gln Thr Asn Leu Ala Ala Leu Ala Ser Arg Pro Ala Ala Ala
65                  70                  75                  80
Ala Thr Gln Gly Arg Pro Trp Leu Leu Thr Ser Val Gly Met Asp Gly
                85                  90                  95
Val Val Arg Arg Trp Asp Ala Arg Gly Gly Thr Ala Ala Ala Ala Glu
            100                 105                 110
Gly Leu Leu Lys Glu Trp Lys Gly His Leu Gly Leu Val Glu Asn Gly
        115                 120                 125
Glu Gly Glu Gln Ser Gly Gly Ile Met Gly Phe Val Gln Gly Phe Asp
    130                 135                 140
Gly Lys Arg Val Val Thr Ala Gly Asp Asp Gly Val Ala Leu Val Phe
145                 150                 155                 160
Glu Glu
```

<210> 24201
<211> 270
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24),(34)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24201
Gly Ile Glu Cys Gly Pro Asp Arg Thr Asn Pro Asp Thr Ala Ile Phe
1 5 10 15
Pro Met Phe Ser Lys Pro Ile Xaa Thr Phe Ser Gly Ala Gly Ala Gly
20 25 30
Ala Xaa Ile Ile His Thr Leu Asp Glu Tyr Trp Arg Ser Phe Val Pro
35 40 45
Gly His Met Trp Ser Ala Leu Leu Thr Gly Glu His Ile Ser Thr Asp
50 55 60
Ile Ala Val Asp Ala Gly Arg Ala Val Trp Phe Ala His Thr Lys Gly
65 70 75 80
Val Ala Gly Pro Asp Lys Thr Trp Glu Tyr Trp Glu Val Asn Thr Pro
85 90 95
Val Glu Pro Ser Leu Glu Lys Tyr Ile Thr Asp Phe Val Glu Pro His
100 105 110
Leu Ala Gly Tyr Thr Gly Met Met Asn Val Glu Thr Ile Gly Gly Lys
115 120 125
Ile Ile Glu Val His Leu Arg Phe Ser Pro Gln Trp Pro Asn Met Tyr
130 135 140
Gly Ser Trp Phe Ile Ala Ser Leu Val Asp Leu Tyr Cys Gly Lys Gly
145 150 155 160
Trp Thr Gly Pro Ser Ala Ser Lys Ile Ala Ser Pro Val Gly Tyr Ser
165 170 175
Val Pro Leu Trp Asp Asp Glu Lys Tyr Ala Glu Thr Gly Thr Thr Leu
180 185 190
Thr Glu Asn Ala Val Arg Arg Leu Glu Ser Met Phe Asn Val Glu Ser
195 200 205
Ile Val Glu Ser Thr Thr Met Gln Tyr Gly Gln Glu Lys Pro Leu Glu
210 215 220
Ser Thr Pro Arg Ala Ser Gly Gly Phe Arg Ile Ala Trp Val Asn Gly
225 230 235 240
Tyr Asp Leu Ala Arg Cys Lys Leu Ala Arg Ser Ala Leu Gln Ala Tyr
245 250 255
Leu Tyr Gln Leu Asp Asp Thr Asp Lys Gly Tyr Gln Val Leu
260 265 270

<210> 24202
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24202
Val Glu Phe Ser Pro Trp Ser Ser Arg Leu Val Arg Ala Ser Ile Asn
1 5 10 15
Leu Gly Asn Ile Pro Pro Thr His Ile Leu Gln Arg Asn Val Gly Ile
20 25 30
Pro Leu Cys Asn Ile Leu Val Ser Pro Ile Leu Pro Ala Asn Gln Glu
35 40 45
Leu Arg Leu Pro Asn Phe Cys Asn Phe Thr Arg Val Pro Asp Phe Phe
50 55 60

```
Ser Cys Arg Val Pro Gly Phe Gln Thr Arg Thr Asp
65                  70                  75

<210> 24203
<211> 91
<212> PRT
<213> A.fumigatus

<400> 24203
Lys Arg Gly Trp Asn Ala Leu Tyr Trp Glu Asn His Asp Gln Pro Arg
1               5                   10                  15
Ser Ile Asp Arg Tyr Thr Gln Ala Lys Glu Glu His Arg Leu Val Ala
            20                  25                  30
Ser Lys Leu Leu Ala Thr Ile Leu Thr Leu Gln Ala Gly Thr Pro Phe
        35                  40                  45
Ile Tyr Gln Gly Gln Glu Leu Gly Met Arg Asn Val Pro Val Glu Trp
    50                  55                  60
Gly Ile Glu Glu Tyr Lys Asp Ile Asp Cys Leu Asn His Trp His Glu
65                  70                  75                  80
Tyr Val Phe Thr Leu Pro Val His Glu His Asp
                85                  90

<210> 24204
<211> 214
<212> PRT
<213> A.fumigatus

<400> 24204
Glu Thr Cys Gln Trp Asn Gly Glu Ser Arg Ser Ile Arg Ile Leu Thr
1               5                   10                  15
Ala Ser Thr Ile Gly Met Ser Met Tyr Ser Pro Tyr Leu Phe Met Asn
            20                  25                  30
Met Thr Asp Ala His Arg Leu Leu Lys Thr Lys Gln Phe Asp Thr Lys
        35                  40                  45
Ala Gln Gln Ile Ala Lys Gln Glu Tyr Gln Lys Lys Ser Arg Asp Asn
    50                  55                  60
Ala Arg Thr Pro Val Gln Trp Ser Ser Gly Pro Asn Gly Gly Phe Thr
65                  70                  75                  80
Gly Pro Asn Val Lys Pro Trp Met Ser Val Asn Pro Asp Tyr Val Arg
                85                  90                  95
Ile Asn Ala Glu Ala Glu Val Asn Asp Pro Asn Ser Thr Tyr His Tyr
            100                 105                 110
Trp Ala Ser Val Leu Gly Leu Arg Lys Lys Tyr Leu Asp Ile Phe Val
        115                 120                 125
Tyr Gly Asn Phe Glu Met Val Asp Gly Asp Ser Gln Glu Val Phe Ala
    130                 135                 140
Tyr Thr Arg Gln Tyr Glu Asn Gln Lys Ala Leu Val Val Gly Asn Phe
145                 150                 155                 160
Thr Asp Lys Thr Leu Glu Trp Ser Pro Ala Ala Asn Gly Ile Lys Gly
                165                 170                 175
Val Arg Glu Val Leu Leu Asn Thr Tyr Glu Glu Ala Lys Lys Ala Ser
            180                 185                 190
Pro Arg Phe Ala Gly Glu Lys Trp Ser Leu Gln Pro Tyr Glu Ala Val
        195                 200                 205
Ala Val Ile Val Gln Glu
    210
```

<210> 24205
<211> 67
<212> PRT
<213> A.fumigatus

<400> 24205
Thr Ile Leu Met Val Leu Val Ser Leu Leu Ser Leu Phe Ala Ala Val
1 5 10 15
Phe Tyr Tyr Tyr Ile Thr Val Ala Pro Ser Cys Tyr Asn Ser Asn Ser
20 25 30
Asn Asn Asn Thr Pro His Leu Leu Glu Ala Asp Ile Leu Gly Thr Ile
35 40 45
Ala Val Gln Glu Asn Met Leu Ile Cys Leu Leu Ala Asn Thr Ile His
50 55 60
Met Thr Phe
65

<210> 24206
<211> 70
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24206
Met Glu Gln Arg Gln Trp Ile Ala Gly Tyr Pro Ile Glu Ala Thr Pro
1 5 10 15
Phe Val Arg Met Leu Val Asp Arg Xaa Arg Met Glu Lys Asp Leu Leu
20 25 30
Phe Val Thr Val Thr His Tyr Ser Ser Cys Tyr Glu Pro Met Glu Ala
35 40 45
Met Asn Ala Ile Gln Cys Pro Lys Leu Val Tyr Met Ile Trp Leu Ala
50 55 60
Phe Ser Pro Leu His Ser
65 70

<210> 24207
<211> 83
<212> PRT
<213> A.fumigatus

<400> 24207
Arg Ile Ser Thr Thr Ser Arg Ala Arg Lys Asp Leu His Ser Val Leu
1 5 10 15
Ile Gln Arg Leu Thr Arg Pro Cys Tyr Arg Asn Asn Val Pro Lys Gly
20 25 30
Tyr Ser Phe Val Gly Leu Thr Gln Asn Leu Glu Thr Lys Leu Ser Ala
35 40 45
Ile Ser Ser Ile Pro Ala Val Tyr Asn Trp Thr Arg Thr Asn Thr Thr
50 55 60
Glu Phe Lys Gly Ala Thr Thr Thr Leu Arg Arg Lys Cys Val Pro Ala
65 70 75 80

Asp His Leu

<210> 24208
<211> 116
<212> PRT
<213> A.fumigatus

<400> 24208
Ser Pro Val Gly Asn Ile Cys Phe Asp Phe Met Thr Asn Asp Val Lys
1 5 10 15
Gly Asp Ser Thr Ser Ser Ser Ser Arg Glu Leu Met Leu Trp Leu Gln
20 25 30
Tyr Glu Gly Gly Gln Leu Pro Ile Gly Trp Thr Asn Gly Pro Ala Ala
35 40 45
Thr Ile Asp Asn Leu Phe Gly Thr Ser Trp Thr Leu Tyr Glu Asp Ile
50 55 60
Asn Thr Asp Thr Gly Ile Thr Val Ser Thr Leu Met Pro Thr Lys Gln
65 70 75 80
Phe Glu Gly Ser Phe Ser Gly Asp Leu Lys Asn Trp Leu Leu Ala Met
85 90 95
Ala Asp Leu Gly Arg Phe Thr Glu Ser Thr Tyr Val Asn Val Gly Asn
100 105 110
Ala Gly Tyr Leu
115

<210> 24209
<211> 226
<212> PRT
<213> A.fumigatus

<400> 24209
Asn Val Asp Phe Cys Ala Phe Gln Leu Pro Ala Val Ser Ser Arg Gln
1 5 10 15
Asn Gly Phe Ile Arg Ser His Arg His Cys Arg Cys Pro Gln Pro Cys
20 25 30
Arg Leu Leu Ser Thr Trp Gly Ala Ser Ala Leu Gln Pro Tyr Leu Pro
35 40 45
Gly Pro Leu Cys Tyr Phe Arg Arg Arg Arg His Arg Thr Arg Pro Leu
50 55 60
Gln Leu Tyr Pro Gly Val Ser Arg Gln Pro Leu Tyr Gln His Pro Arg
65 70 75 80
Ile Pro Ser Pro Pro Pro Ser Ala Ala Leu Phe Ser Arg Pro Ala Arg
85 90 95
Arg Pro Arg Leu Gly Ser Leu Val His Pro Pro Lys Ala Gln Cys Ile
100 105 110
Ser Glu Pro Pro Gly Leu Thr Gln Pro Ile Trp Pro Asn Arg Ala His
115 120 125
Arg Pro Leu Arg Pro Leu His His Leu Pro Val Arg Arg Ala Arg His
130 135 140
Leu Arg Arg Pro Ile Arg Leu His Glu Arg Pro Leu Val Arg Pro Val
145 150 155 160
Val Pro Val Ser Ser Pro Ala Thr Leu Pro Gln Arg Gln Gly Ala Pro
165 170 175
Arg Pro Pro Ala Asp Leu Asp Pro Arg Val Gln Arg Gln Asp Gly Pro
180 185 190

```
Arg Leu Arg Ala Ala His Pro Asn Leu Pro Ala Ala Ala His Arg Pro
        195                 200                 205
Ala Asp Gly Ala Pro Asp Arg Arg Val Phe Ala Arg Arg Trp Lys Thr
    210                 215                 220
Glu Gly
225
```

<210> 24210
<211> 213
<212> PRT
<213> A.fumigatus

<400> 24210

```
Ala Ala Gly Lys Met Asp Ser Tyr Val Leu Ile Ala Ile Ala Gly Val
1               5                   10                  15
Leu Ser His Val Val Tyr Phe Arg Arg Gly Glu His Gln Leu Tyr Ser
            20                  25                  30
His Ile Tyr Leu Val Leu Phe Val Ile Ser Ala Ala Val Val Thr Val
        35                  40                  45
Leu Val His Tyr Ser Tyr Ile Leu Val Tyr Leu Ala Ser Leu Tyr Thr
    50                  55                  60
Ser Ile Leu Val Tyr Arg Leu Leu Leu His Pro Leu Arg Ser Phe Pro
65                  70                  75                  80
Gly Pro Leu Ala Ala Arg Val Ser Gly Leu Trp Tyr Ile His Pro Lys
                85                  90                  95
His Asn Ala Tyr Leu Ser Leu Gln Ala Leu His Ser Gln Tyr Gly Pro
            100                 105                 110
Ile Val Arg Thr Gly Pro Ser Asp Leu Ser Ile Ile Tyr Pro Ser Ala
        115                 120                 125
Val Pro Ala Ile Tyr Gly Ala Gln Ser Ala Cys Thr Lys Gly Pro Trp
    130                 135                 140
Tyr Asp Leu Ser Tyr Pro Ser Arg Pro Leu Gln His Cys Arg Asn Ala
145                 150                 155                 160
Lys Glu His His Ala Arg Arg Arg Thr Trp Thr Pro Ala Phe Ser Asp
                165                 170                 175
Arg Met Val Arg Gly Tyr Glu Gln Arg Ile Gln Thr Tyr Gln Gln Gln
            180                 185                 190
Leu Ile Ala Gln Leu Thr Ala Arg Gln Thr Val Glu Tyr Ser Pro Gly
        195                 200                 205
Ala Gly Arg Arg Lys
    210
```

<210> 24211
<211> 166
<212> PRT
<213> A.fumigatus

<400> 24211

```
Pro Asp Ser Cys Ser Ile Gln Val Val Asp Ala Ile Lys Asp Leu Val
1               5                   10                  15
Gln Asp Cys Asn Phe Asp Cys Asn Asp Ser Gly Ile Ala Leu Gln Ala
            20                  25                  30
Met Asp Asn Ser His Val Ala Leu Val Ser Met Leu Leu Lys Ala Glu
        35                  40                  45
Gly Phe Ser Pro Tyr Arg Cys Asp Arg Asn Ile Ala Leu Gly Ile Asn
    50                  55                  60
```

```
Leu Val Ser Leu Thr Lys Val Leu Arg Ala Ala Gln Asn Glu Asp Ile
65                  70                  75                  80
Leu Thr Leu Lys Ala Asp Asp Ser Pro Asp Ala Val Asn Leu Met Phe
                85                  90                  95
Glu Ser Ala Glu Thr Asp Arg Ile Ser Glu Tyr Asp Ile Lys Leu Met
            100                 105                 110
Asp Ile Asp Gln Glu His Leu Ala Ile Pro Glu Thr Glu Tyr Ala Ala
        115                 120                 125
Thr Val Glu Met Pro Ser Ala Glu Phe Gln Arg Ile Cys Arg Asp Leu
    130                 135                 140
Asn Ala Leu Ser Glu Ser Gly Glu Leu Trp Asn Ser Val Ile Gly Asn
145                 150                 155                 160
Phe Leu Thr Glu Pro Cys
                165
```

<210> 24212
<211> 499
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (412),(433),(447),(454),(456),(457),(465),(468),(476),(484),(490)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24212

```
Tyr Asp Ala Pro Thr Pro Arg Arg Thr Phe Phe Gln Ala Phe Met Ser
1               5                   10                  15
Leu Leu Gln Phe His Leu Lys Lys Glu Asn Leu Gln Asp Phe Asn Gly
            20                  25                  30
Val Cys Asp Glu Ser Ile Gln Leu Ser Ile Arg Lys Trp Leu Gln Leu
        35                  40                  45
Pro Lys Asn Ile Thr Asn Ala His Ile Pro Ile Leu Gln His Phe Gln
    50                  55                  60
Leu Leu Val Glu Leu His Asp Ala Ser His Ile Cys Ala Ser Leu Ser
65                  70                  75                  80
Gln Thr Asn Glu Arg Asn Leu Asp Thr Lys Ser Ala Glu Leu Lys Leu
                85                  90                  95
Leu Leu Gly Thr Trp Arg Asp Arg Leu Pro Asn Leu Trp Asp Asp Ile
            100                 105                 110
Asn Ala Trp Gln Asp Leu Val Thr Trp Arg Gln His Ile Phe Gln Leu
        115                 120                 125
Ile Asn Ala Thr Tyr Leu Ser Leu Leu Pro Pro Gln Thr Asn Asn Val
    130                 135                 140
Ala Ser Asn Ser Tyr Ala Tyr Arg Gly Tyr His Glu Thr Ala Trp Ile
145                 150                 155                 160
Ile Asn Arg Phe Ala His Val Ala Arg Lys His Gln Met Pro Glu Val
                165                 170                 175
Cys Ile Asn Gln Leu Ser Arg Ile Tyr Thr Leu Pro Asn Ile Glu Ile
            180                 185                 190
Gln Glu Ala Phe Leu Lys Leu Arg Glu Gln Ala Lys Cys His Tyr Gln
        195                 200                 205
Asn Pro Lys Glu Leu Asn Ser Gly Leu Asp Val Ile Asn Asn Thr Asn
    210                 215                 220
Leu Asn Tyr Phe Gly Ala Gln Gln Lys Ala Glu Phe Tyr Thr Leu Lys
225                 230                 235                 240
```

```
Gly Met Phe Leu Ala Lys Leu Asn His Val Asn Glu Ala Asn Glu Ala
                245                 250                 255
Phe Gly Val Ala Leu Tyr Tyr Asp Leu Arg Leu Ala Lys Ala Trp Ser
            260                 265                 270
Glu Trp Gly Gln Tyr Ser Asp Gln Arg Phe Lys Ala Asp Pro Ser Asp
        275                 280                 285
Tyr Glu Leu Ala Ser Asn Ala Val Ser Cys Tyr Leu Glu Ala Ala Gly
    290                 295                 300
Leu Tyr Lys Asn Ala Lys Ser Arg Lys Leu Leu Ser Arg Ile Leu Trp
305                 310                 315                 320
Leu Leu Ser Leu Asp Asn Glu Glu Gly Arg Ile Ala Gly Ala Phe Glu
                325                 330                 335
Asn Phe Lys Gly Asp Thr Pro Val Trp Tyr Trp Ile Thr Phe Ile Pro
            340                 345                 350
Gln Leu Leu Thr Ser Leu Ser His Arg Glu Ala Arg Leu Cys Lys Ala
        355                 360                 365
Val Leu Val Lys Ile Ala Lys Leu Tyr Pro Gln Ala Leu Phe Phe Leu
    370                 375                 380
Leu Arg Thr Asn Arg Glu Asp Met Leu Ser Ile Lys Lys Gln His Asp
385                 390                 395                 400
Gln Lys Gln Glu Lys Leu Asn Arg Ala Arg Gln Xaa Gln Ala Ser Pro
                405                 410                 415
His Thr Lys Pro Ser Pro Ala Thr Ala Asp Ser Ser Pro Ala Gln Gly
            420                 425                 430
Xaa Gln Pro Ala Asn Ser Asn Thr Pro Ala Gln Gly Gln Ala Xaa Gln
        435                 440                 445
Pro Pro Gln Gly Gln Xaa Gln Xaa Xaa Ser Gln Ser Leu Pro Gln Gly
    450                 455                 460
Xaa Asn Pro Xaa Pro Arg Pro Lys Ser Arg Pro Xaa Lys Pro Pro Pro
465                 470                 475                 480
Gln Asn Gln Xaa Gln Pro Pro Arg Asn Xaa Pro Gln Pro Pro Arg Phe
                485                 490                 495
Arg Leu Leu
```

<210> 24213
<211> 88
<212> PRT
<213> A.fumigatus

```
<400> 24213
Asp Lys Cys Gly Thr Tyr Val Asp Val Leu Thr Cys Ser Pro Thr Gly
1               5                   10                  15
Gly Gly Ser Ala Tyr Phe Phe Glu Gly Asp Ser Ser Leu Gln Pro Phe
            20                  25                  30
His Ser Arg Pro Leu Val Asn Arg Leu Thr Asn Gly Tyr Lys Arg Ile
        35                  40                  45
Asp Gln Ala Ala Gln Pro Thr Arg Val Thr Leu Ser Ile Leu Gly Gly
    50                  55                  60
Asp Lys Ala Gln Glu Ile Val Val Asn Pro Thr Ala Thr Arg Pro Ala
65                  70                  75                  80
Leu Asp Leu Ala Phe Arg Ser Leu
                85
```

<210> 24214
<211> 230

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (96),(143),(155),(182),(214)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24214
Pro Val Gly Leu Ala Ser Leu Arg Lys Ser Pro Val Phe Ser Leu Tyr
1 5 10 15
Asn Asn Ser Val Pro Glu Gly Arg Ser Ile Leu Ala Ser Phe Lys Thr
20 25 30
Gly Trp Lys Gln Arg Ser Arg Glu Gly Glu Lys Asp Gln Lys Val Thr
35 40 45
Gln Tyr Ser Glu Ser Arg Cys Thr Tyr Pro Cys Pro Gly Ser Ala Ser
50 55 60
Val Phe Pro Ser Phe Arg Gly Leu Lys Val Phe Leu Val Thr Ile Ala
65 70 75 80
Gln Val Ser His Ser Ser Thr Met Ser Gly Gly Val Arg Glu Ile Xaa
85 90 95
Glu Glu Gly Val Ala Pro Ser Cys Ser Ser Asn Gly Gly Gly Asn Val
100 105 110
Ile Gln Tyr His Val Glu Lys Pro Ala Glu Ala Ser Ser Gly Ser Asp
115 120 125
Pro Ser Ala Leu Glu Ala Gln Lys Ala Met Thr Leu Glu Ala Xaa Arg
130 135 140
Glu Thr Asp Gly Gly Ala His Ser Ala Phe Xaa Lys Lys Glu Lys Arg
145 150 155 160
Phe Ile Val Phe Met Ile Ser Met Ala Ser Phe Phe Ser Pro Leu Ser
165 170 175
Ala Gln Ile Tyr Phe Xaa Val Met Pro Thr Leu Val Glu Asn Tyr His
180 185 190
Leu Thr Thr Ala Leu Ile Asn Leu Thr Ile Thr Thr Tyr Leu Ile Leu
195 200 205
Gln Ser Leu Ala Pro Xaa Phe Ile Gly Thr Phe Ala Asp Ser Gly Gly
210 215 220
Arg Arg Pro Ala Tyr Ile
225 230

<210> 24215
<211> 141
<212> PRT
<213> A.fumigatus

<400> 24215
Glu Gly Pro Glu Arg Lys Val Gln Gly Trp Ala Ser Gly Gly Gly Ile
1 5 10 15
Tyr Asp Asp Phe Leu Arg Leu Val Thr Ala Lys Asn Gly Lys Arg Asp
20 25 30
Pro Ser Arg Leu Ser Arg Leu Val Asn Ala Leu Val Thr Ile Gly Glu
35 40 45
Thr Ile Asp Lys Gly Ser Gly Val Glu Gly Leu Glu Ala Arg Val Ala
50 55 60
Phe Lys Glu Ile Ser Arg Ala Ala Ala Ser Trp Thr Thr Arg Glu Asp
65 70 75 80

```
Val Asn Val Ser Thr Ala Phe Val Ser Thr Leu Leu Leu Ser Leu Asn
                85                  90                  95
Ser Asn Ile Thr Asp Glu Gln Gln Ala Ile Glu Leu Ser Ser Val Leu
            100                 105                 110
Asn Leu Pro Leu Thr Gly Asp Ala Arg Ile Met Gln Thr Ala Glu Met
        115                 120                 125
Ser Arg Arg Tyr Tyr Ser Thr Ile Met Ala Gly Gly Tyr
    130                 135                 140
```

<210> 24216
<211> 123
<212> PRT
<213> A.fumigatus

<400> 24216

```
Ser Ile Ile Leu Tyr Leu Leu Leu Phe Trp Leu Thr Val Leu Lys Met
1               5                   10                  15
Gly Ala Pro Asn Phe Tyr Arg Ser Gly Leu Val Ser Leu Leu Phe Val
            20                  25                  30
Ser Leu Cys Val Ser Ser Leu Ala Asn Ala Asp Tyr Asn Arg Phe Cys
        35                  40                  45
Pro Asp Lys Thr Ser Gln Ile Gln Val Asp Ser Thr Phe Tyr Thr Val
    50                  55                  60
Ala Cys Asp Thr Ser Tyr Ile Ser Pro Ala Pro Lys Lys Val Arg Glu
65                  70                  75                  80
Gly Ala Ser Pro Gln Asp Cys Ala Arg Leu Cys Thr Gly Gly Ala Ser
                85                  90                  95
Ile Pro Cys His Ser Val Val Ser Trp Lys Pro Leu Gly Gly Pro Lys
            100                 105                 110
Asn Gln Arg Arg Leu Ile Pro Val Pro Gly Ala
        115                 120
```

<210> 24217
<211> 98
<212> PRT
<213> A.fumigatus

<400> 24217

```
Ser Gly Ile Gly Ser Ala Cys Met Ser Asn Asp Gly Thr Asn Lys Pro
1               5                   10                  15
Gln Phe Thr Pro Thr Phe Pro Gly Thr Cys Pro Phe Ile Thr Ala Val
            20                  25                  30
Gly Gly Thr Gln Ser Tyr Ala Pro Glu Val Ala Trp Asp Gly Ser Ser
        35                  40                  45
Gly Gly Phe Ser Asn Tyr Phe Ser Arg Pro Trp Tyr Gln Ser Phe Ala
    50                  55                  60
Val Asp Asn Tyr Leu Asn Asn His Ile Thr Lys Asp Thr Lys Lys Tyr
65                  70                  75                  80
Tyr Ser Gln Tyr Thr Asn Phe Lys Gly Arg Gly Phe Pro Asp Val Ser
                85                  90                  95
Ala Pro
```

<210> 24218
<211> 105
<212> PRT

<213> A.fumigatus

<400> 24218
Asn Ala Asn Leu Ile Ala Pro Asp Ser Leu Val Glu Met Tyr Asn Leu
1 5 10 15
Gly Asp Tyr Lys Pro Asp Ala Ser Ser Gly Ser Arg Val Gly Phe Gly
20 25 30
Ser Phe Leu Asn Glu Ser Ala Asn Tyr Ala Asp Leu Ala Ala Tyr Glu
35 40 45
Gln Leu Phe Asn Ile Pro Pro Gln Asn Phe Ser Val Glu Leu Ile Asn
50 55 60
Arg Gly Val Asn Asp Gln Asn Trp Ala Thr Ala Ser Leu Gly Glu Ala
65 70 75 80
Asn Leu Asp Val Glu Leu Ile Val Ala Val Ser His Pro Leu Pro Val
85 90 95
Val Glu Phe Ile Thr Gly Gly Ser Pro
100 105

<210> 24219
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24219
Ile Ser Pro Phe Val Pro Asn Ala Asp Glu Pro Thr Ala Ala Asp Asn
1 5 10 15
Gln Asn Glu Pro Tyr Leu Gln Tyr Tyr Glu Tyr Leu Leu Ser Lys Pro
20 25 30
Asn Ser His Leu Pro Gln Val Ile Ser Asn Ser Tyr Gly Asp Asp Glu
35 40 45
Gln Val Ser Ile Leu Met Ile Leu Leu Tyr Asn Arg His
50 55 60

<210> 24220
<211> 260
<212> PRT
<213> A.fumigatus

<400> 24220
His Arg Ile Ala Val Phe Arg Thr Val Val Lys Thr Val Thr Gly Ala
1 5 10 15
Ser Asp Gly Ile Gly Phe Gly Phe Ala Gln Glu Leu Cys Lys Arg Gly
20 25 30
Phe Asn Val Phe Leu His Gly Arg Asn His Asp Lys Leu Leu Arg Lys
35 40 45
Arg Asp Glu Leu Leu Ala Glu Phe Pro Asn Arg Lys Ile Arg Ile Ile
50 55 60
Val Phe Asp Ala Phe Lys Ser Ser Glu Asp Leu Arg Trp Ile Ala Gln
65 70 75 80
Glu Ile Gly Asp Ala Arg Leu Thr Val Leu Val Asn Asn Ala Gly Gly
85 90 95
Glu Val Lys Leu Phe Glu Arg Leu Ala Asp Leu Ile His Glu Asp Val
100 105 110
Gln Ala Thr Ile Ser Leu Asn Ser Thr Phe Thr Ala Gln Ile Thr Arg
115 120 125
Val Leu Leu Pro Val Leu Glu Arg Asn Ser Pro Ser Leu Ile Leu Ala

```
    130                 135                 140
Val Ser Ser Ala Ala Ala Tyr Val Met Pro Thr Leu Thr Val Tyr Ser
145                 150                 155                 160
Ala Ser Lys Gly Phe Val Glu Ser Phe Thr Arg Ser Leu Gln Ala Glu
                165                 170                 175
Met Thr Leu Asp Gly Lys Asp Val Glu Val Leu Gly Leu Arg Val Gly
            180                 185                 190
Asn Thr Lys Ser Gln Gly Asn Asp Val Ala Val Gly Leu Phe Thr Pro
        195                 200                 205
Ser Ser Arg Thr Leu Ala Ser Ala Ala Leu Asn Arg Val Gly Cys Gly
    210                 215                 220
Lys Pro Val Val Trp Ala Tyr Trp Pro His Phe Leu Gln Gly Leu Ser
225                 230                 235                 240
Phe His Leu Ile Pro Gly Lys Met Leu Met Leu Ile Leu Gly Asp Pro
                245                 250                 255
Leu Ser Met Pro
            260
```

<210> 24221
<211> 293
<212> PRT
<213> A.fumigatus

<400> 24221

```
Leu Trp Cys Asn Ser Val Leu Leu Thr Lys Pro Tyr Arg Gln Glu Ser
1                   5                   10                  15
Leu Ala Glu Ala Thr Leu Met Pro Met Gly Lys Gly Phe Ala Ile Thr
            20                  25                  30
Ser Asp Leu Asn Leu Arg Asn Ile Leu Leu His Gly Tyr Asp Lys His
        35                  40                  45
Thr Arg Arg Pro Asp Glu Asp Glu Pro Ser Ser Lys Arg Arg Lys Leu
    50                  55                  60
Phe Ala Leu Pro Lys Leu Lys Ile Ala Ala Ile Thr Asn Asp Ala Val
65                  70                  75                  80
Ala Thr Leu Ala Ser Leu Ala Tyr Ser Val Lys Ser Leu Pro Asn Ser
                85                  90                  95
Arg Val Ala Met Gly Ile Ile Val Gly Thr Gly Cys Asn Ala Thr Ile
            100                 105                 110
Pro Met Lys Leu Glu Ser Leu His Glu Ser Lys Ala Glu His Val Lys
        115                 120                 125
Ser Lys Ile Pro Glu Ala Lys Glu Thr Ile Val Asn Thr Glu Trp Thr
    130                 135                 140
Ile Ser Gly Ala Ser Pro Pro Leu Lys Glu Leu Asn Ile Ile Thr Lys
145                 150                 155                 160
Trp Asp Glu Glu Leu Asp Lys Ala Cys Ala Arg Pro Gly Phe Gln Pro
                165                 170                 175
Phe Glu Tyr Met Thr Gly Gly Arg Tyr Ile Gly Glu Leu Ile Arg Leu
            180                 185                 190
Ile Leu Phe Asp Tyr Leu Thr Asn Ile Val Gly Leu Glu Lys Lys Gln
        195                 200                 205
Leu Pro Ala Thr Leu Val Gln Glu Tyr Ala Leu Thr Thr Ser Tyr Ile
    210                 215                 220
Ser Asp Lys Val Ala Arg Pro Gln Arg Asp Glu Asp Leu Ala Ala Glu
225                 230                 235                 240
Leu Asn Gln Ser Leu Pro Pro Pro Glu Ser Cys Glu Trp Cys Trp Asp
                245                 250                 255
```

```
Ser Leu Thr Ala Gly Ala Phe Arg Lys Ile Ala Arg Val Val Gln Thr
            260                 265                 270
Arg Ser Ala Gly Leu Ile Glu Ser Gly Leu His Arg Gly His Lys Asp
        275                 280                 285
Arg Gly Gly Ser Phe
    290
```

<210> 24222
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24222

```
Tyr Arg Lys Asp Thr Gly Asn Thr Asp Thr Ile Thr Val Ile Thr Val
1               5                   10                  15
Met Pro Gly Ala Ser Val Thr Asn Ile Asp His Ser Cys Ile Ser Cys
            20                  25                  30
Ile Ser Ile Thr Cys Phe Tyr Ser Ala Leu Phe Cys Cys Gln Gly Ser
        35                  40                  45
Ser Asp Asn Asn Pro Gly Ser Thr Phe Lys Leu His Cys His Arg Arg
    50                  55                  60
Leu Ser
65
```

<210> 24223
<211> 152
<212> PRT
<213> A.fumigatus

<400> 24223

```
Lys His Val Met Leu Ile Gln Leu Ile His Glu Trp Ser Met Leu Val
1               5                   10                  15
Thr Glu Ala Pro Gly Ile Thr Val Ile Thr Val Met Val Ser Val Phe
            20                  25                  30
Pro Val Ser Phe Arg Tyr Tyr Tyr Ile Thr Ala Phe Ser Cys His Pro
        35                  40                  45
Gln Gly Pro Lys Thr Ile Ser Ile Ile Leu Pro Arg Asp Gln His Ile
    50                  55                  60
Trp Asp Gly Arg Asn Met Pro Glu Tyr Asp His Asp Lys Val Pro Asp
65                  70                  75                  80
Phe Pro Trp Glu Leu Gly Val Tyr Asp Ala His Cys His Pro Thr Asp
                85                  90                  95
Ala Met Ser Ser Ile Ser Asp Ile Pro Gly Met Lys Ala Ala Thr Leu
            100                 105                 110
Thr Val Met Ala Thr Arg Ala Glu Asp Gln Asp Leu Val Phe Gln Ile
        115                 120                 125
Ala Lys Asp Leu Asn Asn Ala Lys Leu Thr Val Gln Asp Ala Glu Thr
    130                 135                 140
Asp Arg Val Pro Pro Ser Phe Gly
145                 150
```

<210> 24224
<211> 328
<212> PRT
<213> A.fumigatus

<400> 24224
Asp Leu Pro Val Asn Ser Val His Gln His Gly Lys Leu Ile Ala Ala
1 5 10 15
Leu Leu Pro Gln Leu Asp Asp Thr Pro Gly Asp Phe Leu Ala Arg Leu
20 25 30
Arg Asp Ala Glu Ala Ala Val Lys Thr Glu Ser Leu Val Glu Leu Ile
35 40 45
Asp Val Thr Glu Lys Leu Tyr Tyr Ser Leu Tyr Ala Arg Leu Val Met
50 55 60
Glu Ile Ala Asn Val Glu Leu Cys Ser His Phe Asp Leu Asn Leu Arg
65 70 75 80
Arg Met Leu Val Lys Glu Thr Phe Thr Leu Pro Glu Thr Ser His Leu
85 90 95
Arg Asp Ile Phe Ile Thr Phe Lys Asp Ile Leu Asp Ala Pro Glu Ile
100 105 110
Cys Ser Gly Leu Asp Tyr Asp Leu Val Lys Gln His Gln Asp Ser Ile
115 120 125
Ile Arg Asn Ala Thr Asp Lys Leu Ala Ile Thr Gly Phe Ser Ala His
130 135 140
Asp Leu Ile Gly Tyr Arg Thr Ser Thr Leu Lys Ile Val Ser Asp Glu
145 150 155 160
Thr His Pro Phe Val Leu Lys Trp Arg Gly Leu Val Tyr Leu Tyr Gln
165 170 175
Met Pro Gly Val Glu Thr Ile Thr Ala Met Ser Glu Lys Tyr Leu Thr
180 185 190
Ile Met Pro Gln Val Ser Ala Thr Glu Glu Phe Pro Ala Ile Glu Leu
195 200 205
Pro Phe Ile Asp Arg Asp Ser Ile Gln Pro Glu Ile Trp Gln Arg Glu
210 215 220
Asn Val Leu Asp Asn Arg Gln Ala Thr Leu Ala Lys Leu Glu Gly Arg
225 230 235 240
Ser Val Gly Asp Met Arg Arg Asp Asp Ser Arg Arg Arg Leu Leu Asp
245 250 255
Phe Val Lys Glu Lys Lys Cys Ile Cys Arg Ser Ser Cys Ser Cys Ala
260 265 270
Thr Asp Cys Thr Met Gly Val Val Leu Pro Cys Pro Cys Ser Glu Arg
275 280 285
Ile Leu Cys Ile Ala His Gly Lys Arg Tyr Glu Arg Ala Gly Glu Gln
290 295 300
Gly Phe Pro Ala Gln Tyr Ala Gly Ala Leu Ala Lys Ser Leu Leu Trp
305 310 315 320
Lys Gly Trp Ala Ile Gly Arg Ser
325

<210> 24225
<211> 136
<212> PRT
<213> A.fumigatus

<400> 24225
Ile Pro Arg Thr Arg Phe Leu Leu Ala Pro Trp Arg Asp Tyr Lys Glu
1 5 10 15
Asp Ser Pro Arg Gly Ala Met Ala Arg Arg His Leu Lys Ser Arg Ala
20 25 30
Asp Thr Ala Ser Asn Ser Thr Ala Pro Gln Val Asp Val Gly Ala Ile
35 40 45

```
Val Lys Gly Val Ile Asp Asp Ile Arg Ala Asn Gly Asp Thr Ala Val
    50                  55                  60
Arg Lys Tyr Ser Glu Arg Phe Asp Lys Trp Ser Pro Ala Ser Phe Arg
65                  70                  75                  80
Leu Ser Arg Glu Glu Ile Glu Ala Ser Ile Ala Ala Cys Pro Pro Gln
                85                  90                  95
Thr Ile Glu Asp Ile Glu Gln Val Gln Arg Asn Val Arg Ala Phe Ala
            100                 105                 110
Lys Ala Gln Arg Asp Ser Ile Lys Asp Phe Glu Tyr Glu Ile Gln Pro
        115                 120                 125
Val Ser Leu Thr Leu Gly Ala Phe
    130                 135
```

<210> 24226
<211> 65
<212> PRT
<213> A.fumigatus

```
<400> 24226
Thr Asp Asn Asn Ser Tyr Ile Pro Gly Gly Arg Tyr Pro Leu Leu Ala
1               5                   10                  15
Ser Ala His Met Thr Ile Leu Thr Ala Lys Glu Ala Gly Val Pro Lys
            20                  25                  30
Val Ile Gly Cys Thr Pro Pro Ile Ala Gly Lys Ile Pro Gln Ala Thr
        35                  40                  45
Ile Ala Ala Val Phe Thr Thr Pro Lys Glu Gly Lys Ile Val Pro Glu
    50                  55                  60
Lys
65
```

<210> 24227
<211> 161
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (124)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24227
Val Ser Leu Gly Pro Ala Lys Tyr Val Arg Arg Met Thr Tyr Arg Asn
1               5                   10                  15
Gly Gln Val Ile Thr Ala Ser Gln Leu Arg Asp Leu Ala Gly Val Thr
            20                  25                  30
Glu Gly Ser Ser His Asp Asp Gly Leu Val Pro Met Leu Leu Val Val
        35                  40                  45
Val Glu Asn Ala Leu Asn Gly Leu Asp Thr Gly Ile Leu Leu Gly Ala
    50                  55                  60
Glu Val Ala Leu Val Arg Ser Leu Val Pro Val Gln Asp Thr Ala Asp
65                  70                  75                  80
Glu Gly Gly Asp Glu Glu Ser Thr Ser Leu Ser Ser Ser Asn Gly Leu
                85                  90                  95
Asp Lys Gly Glu His Asp Gly Gln Val Ala Val Asp Ala Val Leu Arg
            100                 105                 110
Leu Gln Asp Val Gly Gly Leu Asp Thr Leu Pro Xaa Gly Gly Asp Leu
```

```
        115                 120                 125
Asp Lys Asn Thr Val Leu Gly Arg Cys Leu Val Ala Arg Lys Ala Ala
    130                 135                 140
Arg Val Ser Tyr Val Ser Leu Ser Ala Asp Ser Ile Lys Ser Gly Val
145                 150                 155                 160
Pro
```

<210> 24228
<211> 204
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (27)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24228

```
Arg Asn Ile Ala Asp Ser Arg Ser Phe Thr Ser Asn Lys Ala Ser Ser
1               5                   10                  15
Lys Asp Gly Ile Leu Ile Lys Ile Ala Ser Xaa Trp Glu Gly Ile Lys
            20                  25                  30
Ala Ala His Ile Leu Gln Ser Gln His Gly Ile Asn Cys Asn Leu Thr
        35                  40                  45
Ile Met Phe Ser Leu Val Gln Ala Ile Ala Ala Ala Glu Ala Gly Ala
    50                  55                  60
Phe Leu Ile Ser Pro Phe Val Gly Arg Ile Leu Asp Trp Tyr Lys Ala
65                  70                  75                  80
Ala His Lys Arg Asp Phe Ser Pro Glu Glu Asp Pro Gly Val Lys Ser
                85                  90                  95
Val Gln Ser Ile Phe Asn Tyr Tyr Lys Lys His Gly Tyr Lys Thr Ile
            100                 105                 110
Val Met Gly Ala Ser Phe Arg Asn Thr Gly Glu Ile Thr Glu Leu Ala
        115                 120                 125
Gly Cys Asp Tyr Leu Thr Ile Ser Val Cys His Pro Ser Asn Ile Phe
    130                 135                 140
Gly Arg Thr Lys Thr Asn Leu Glu Val Ala Gln Pro Thr Arg Gly Val
145                 150                 155                 160
Val Gln Leu Asp Ser Leu Arg Pro Gln Glu Ala Arg Cys Arg Gln Arg
                165                 170                 175
Arg Gln Pro Arg His Pro Gln Thr Gln Leu His Gln Arg Arg Gly Cys
            180                 185                 190
Leu Pro Leu Arg Leu Gln Arg Gly Gly Tyr Gly Arg
        195                 200
```

<210> 24229
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24229

```
Pro Asn Leu Leu Glu Glu Leu Tyr Asn Ser Thr Ala Ser Val Pro Lys
1               5                   10                  15
Lys Leu Asp Ala Ala Ser Ala Ala Ser Leu Asp Ile Pro Lys Arg Ser
            20                  25                  30
```

```
Tyr Ile Asn Asp Glu Ala Ala Phe Arg Phe Asp Phe Asn Glu Glu Ala
        35                  40                  45
Met Ala Val Glu Lys Leu Arg Glu Gly Ile Ser Lys Phe Ala Ala Asp
    50                  55                  60
Ala Val Thr Leu Lys Glu Leu Leu Lys Gln Lys Ile Gln Ala
65                  70                  75
```

<210> 24230
<211> 228
<212> PRT
<213> A.fumigatus

<400> 24230

```
Asp Gly Thr Met Gln Pro Ala Gln Glu Asn His Glu Asn Asp Asp His
1               5                   10                  15
Gln Pro Gly Thr Pro Pro Arg Pro Pro Tyr Ser Pro Val Thr Pro Val
            20                  25                  30
Leu Ser His Leu Ala Pro Ala Asn Asp Ser Ala Met Arg Asn Gly Ala
        35                  40                  45
Ser His Ser Phe Glu Pro Pro Ala Thr Ser Leu Ser Pro Thr Thr Pro
    50                  55                  60
Ala Leu Pro Tyr Ala Ser Leu Ser Asn Phe Pro Asp Thr Gln Gly Gln
65                  70                  75                  80
Ala Val Phe Gly Gln Glu Pro Ala Pro Val Pro Val Ser Glu Ser Glu
                85                  90                  95
Asn Pro Asp Ala Ile Ala Leu Arg Ser Ala Ile Ser Ile Leu Gln Leu
            100                 105                 110
Gln Lys Gln Gln Ser Ile Arg Asp Ile Gln Thr Leu Glu Lys Leu Lys
        115                 120                 125
Lys Val Ala Ser Ala Asp Pro Glu Gly Phe Ala Arg Glu Leu Ala Ala
    130                 135                 140
Gly Asn Leu Thr Thr Ala Lys Asp Gln Gly Ala Tyr Ile Asn Phe Thr
145                 150                 155                 160
His Lys Asp Asp Lys Ala Val Ser Asp Thr Thr Gly Glu Ser Thr Ser
                165                 170                 175
Glu Ala Leu Ala Asp Ile Gly Pro Ile Pro Ala Pro Gln Asn Val Val
            180                 185                 190
Arg Met Pro Pro Ile Asn Trp Ala Lys Tyr Gln Val Val Gly Glu Pro
        195                 200                 205
Leu Asp Arg Met His Glu Asp Gln Leu Arg His Pro Ser Pro Gly Glu
    210                 215                 220
Pro Arg Arg Pro
225
```

<210> 24231
<211> 196
<212> PRT
<213> A.fumigatus

<400> 24231

```
Thr Ser Val Thr Asn Leu Glu Ala Asp Lys Arg Arg Ala Gly Lys Asn
1               5                   10                  15
Gln Ala Ala Ala Leu Pro Ala Gly Gln Arg Ala Ala Ala Ala Arg Glu
            20                  25                  30
Thr Ser Gly Ser Asn Pro His Arg Asn Arg Leu Asp Gln Pro Val Ser
        35                  40                  45
```

```
Gly Pro Ala Ser His Pro Ala Arg Tyr Asn Ala Ala Ala Ala Leu His
    50                  55                  60
Pro Pro Thr Arg Ala Thr Trp Asn Ala Pro Pro Val Ala Pro Arg Thr
65                  70                  75                  80
Lys Trp Thr Thr Thr Arg Pro Pro Pro Pro Arg Pro Thr Arg Thr Ala
                85                  90                  95
Asn Ser Ala Ser Thr Thr Ala Ile Ser Ala Val Asn Arg Pro Pro Ala
            100                 105                 110
Ala Ala Gly Gln Val Pro Ala Pro Pro Thr Ser Lys Leu Pro Ser Arg
        115                 120                 125
Pro Pro Pro Gln Ala Glu Ser Pro Ser Ser Gln Ser Pro Cys Pro Leu
    130                 135                 140
Phe Leu Ala Ser Ser Arg Arg Gln Pro Leu His His Arg Gly Ser Pro
145                 150                 155                 160
Arg Ser Thr Pro Arg Ile Pro Ala Cys Pro Thr Thr Lys Val Val Ser
                165                 170                 175
Thr Asp Leu Ile Ala Arg Arg Arg Arg Thr Ile Arg Ser Arg Arg Ser
            180                 185                 190
Ser Ser Arg Arg
        195

<210> 24232
<211> 227
<212> PRT
<213> A.fumigatus

<400> 24232
Thr Gln Ser Arg Lys Lys Ser Ser Gly Ser Ala Ser Gly Arg Ala Ala
1               5                   10                  15
Ser Ser Ser Gly Gln Gly Asp Gln Arg Lys Gln Pro Ala Gln Glu Gln
            20                  25                  30
Ala Arg Ser Thr Gly Phe Arg Pro Ser Gln Ser Ser Gly Thr Leu Gln
        35                  40                  45
Arg Arg Gly Gly Ser Ser Ser Thr Asp Ser Gly Tyr Leu Glu Arg Ser
    50                  55                  60
Ala Ser Arg Thr Ala Asn Glu Val Asp Asn Tyr Gln Thr Pro Ala Ala
65                  70                  75                  80
Ser Pro Asn Gln Asn Arg Gln Leu Ser Val Asn Tyr Gly Asn Leu Gly
                85                  90                  95
Arg Glu Pro Ser Thr Gly Arg Arg Arg Ala Gly Ala Ser Thr Thr Asp
            100                 105                 110
Gln Gln Val Ala Gln Pro Ser Pro Thr Ala Gly Gly Val Pro Ile Ile
        115                 120                 125
Ala Glu Pro Val Pro Pro Leu Pro Arg Gln Gln Pro Pro Ala Ala Pro
    130                 135                 140
Ala Ser Gln Gly Ile Pro Ser Glu Tyr Pro Ser Tyr Pro Ser Met Ser
145                 150                 155                 160
Asn Tyr Glu Gly Ser Leu Tyr Gly Ser His Ser Gln Glu Thr Ala Tyr
                165                 170                 175
Asp Pro Glu Gln Ala Leu Glu Leu Pro Ser Val Thr Glu His Ser Glu
            180                 185                 190
Ser Asp Pro Tyr Arg Arg Phe Pro Gly Ser Pro Gly Val Gln Gln Arg
        195                 200                 205
Tyr Pro Asp Asp His Ser Arg Asn Trp Asn Gln Ser Arg Pro Pro Tyr
    210                 215                 220
Gly Gly Gln
```

225

<210> 24233
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24233
Tyr Glu His Cys Arg Ile Leu His Gln Ser Pro Ser Lys Arg Asn Thr
1 5 10 15
Leu Leu Leu Ala Thr Ala Asp Gln Pro Ala Thr Gly Ala His Asn Cys
20 25 30
Thr Val Ser Val Leu Gln Asp Thr Asp Glu Ala Val Arg Ile Arg Lys
35 40 45
Arg Arg Ser Phe Gly Asp Gln Thr Asp Tyr Phe Ser Asp Ile Trp Thr
50 55 60
Pro Arg Leu Cys Cys Ser Gly Gln Ile Leu Ala Ala Pro Asp Phe Thr
65 70 75 80
Gly Glu Val Gly Gln Val Ser Ala Gln Gln Gly Cys Leu Gln Val Cys
85 90 95
Met Ala Arg Met Val Arg Val Asp Gln Pro Met Ser Asn Val Leu
100 105 110

<210> 24234
<211> 164
<212> PRT
<213> A.fumigatus

<400> 24234
Leu Pro Cys Ser Thr Ile Trp Pro Leu Cys Met Thr Met Met Leu Ser
1 5 10 15
Ala Leu Val Ile Val Asp Lys Arg Trp Ala Ile Val Met Ile Val Leu
20 25 30
Pro Glu Ala Met Leu Glu Ile Ala Arg Trp Met Arg Cys Ser Leu Arg
35 40 45
Glu Ser Arg Asp Ala Val Ala Ser Ser Ser Met Ser Thr Ala Gly Ser
50 55 60
Phe Thr Arg Ala Leu Ala Ser Ala Thr Arg Cys Phe Trp Pro Pro Leu
65 70 75 80
Ile Ser Arg Pro Leu Glu Pro Thr Thr Val Pro Tyr Pro Cys Cys Arg
85 90 95
Thr Leu Met Lys Pro Ser Ala Ser Ala Ser Asp Ala Ala Leu Val Thr
100 105 110
Lys Pro Thr Ile Ser Ala Thr Phe Gly Pro Arg Ala Ser Ala Ala Ala
115 120 125
Val Lys Ser Leu Pro Pro Leu Thr Ser Leu Ala Arg Ser Ala Arg Ser
130 135 140
Val Leu Asn Arg Val Ala Phe Arg Cys Ala Trp Leu Gly Trp Phe Glu
145 150 155 160
Leu Ile Ser Pro

<210> 24235
<211> 503
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24235

```
Trp Gln Val Asp His Cys Gly Xaa Gly Asp Thr Thr Leu Arg Ser His
1               5                  10                  15
Ala Gly Pro Ile Leu Phe Asp Gly His Asp Leu Arg Asp Val Asn Pro
            20                  25                  30
Arg Asp Leu Arg Ser Phe Leu Ser Leu Val Gln Gln Glu Pro Ser Leu
        35                  40                  45
Leu Asp Arg Ser Leu Leu Glu Asn Ile Ala His Gly Leu Ile Asn Ser
    50                  55                  60
Asn His Pro Ser His Ala His Leu Lys Ala Thr Leu Leu Ser Thr Asp
65                  70                  75                  80
Leu Ala Asp Leu Ala Ser Glu Val Arg Gly Gly Lys Asp Leu Thr Ala
                85                  90                  95
Ala Ala Glu Ala Arg Gly Pro Asn Val Ala Glu Ile Val Gly Leu Val
            100                 105                 110
Thr Lys Ala Ala Ser Leu Ala Asp Ala Asp Gly Phe Ile Ser Val Leu
        115                 120                 125
Gln His Gly Tyr Gly Thr Val Val Gly Ser Ser Gly Arg Leu Ile Ser
    130                 135                 140
Gly Gly Gln Lys Gln Arg Val Ala Leu Ala Arg Ala Leu Val Lys Asp
145                 150                 155                 160
Pro Ala Val Leu Ile Leu Asp Glu Ala Thr Ala Ser Leu Asp Ser Arg
                165                 170                 175
Ser Glu Gln Arg Ile Gln Arg Ala Ile Ser Asn Ile Ala Ser Gly Arg
            180                 185                 190
Thr Ile Ile Thr Ile Ala His Arg Leu Ser Thr Ile Thr Ser Ala Asp
        195                 200                 205
Asn Ile Ile Val Met His Lys Gly His Ile Val Glu Gln Gly Asn His
    210                 215                 220
Ala Thr Leu Met Ala Lys Asn Gly Thr Tyr Ala Glu Leu Val Lys Leu
225                 230                 235                 240
Gln Thr Leu Ala Ser Lys Asp Glu Thr Thr Ile Asn Ile Asp Ala Ala
                245                 250                 255
Ser Lys Ser Asp Gln Thr Ser Ser Ser Glu Ala Asp Ile Glu Lys Ser
            260                 265                 270
Ala Ile Leu Leu Asp Asp Phe Gly Asp Ala Glu Lys Ile Pro Val Ser
        275                 280                 285
Thr Thr Ala Ala Pro Val Ala Asp Ala Ala Glu Glu Ala Glu Glu Pro
    290                 295                 300
Glu Thr Pro Lys Lys Ser Leu Trp Ala Leu Ala Lys Gly Tyr Ala Pro
305                 310                 315                 320
Ala Leu Arg Pro His Leu Leu Phe Ile Phe Leu Ala Leu Leu Gly Ser
                325                 330                 335
Ser Val Val Gly Gly Ala Phe Ser Gly Glu Ala Val Ile Phe Gly Asn
            340                 345                 350
Thr Val Gly Ser Leu Asn Pro Cys His Ser Ala Asp Ser Ile Arg Ser
        355                 360                 365
Arg Gly Asn Phe Phe Gly Leu Met Phe Phe Ile Leu Ala Ile Ile Glu
    370                 375                 380
Phe Phe Ala Asn Val Val Ser Trp Ser Gly Phe Gly Trp Val Ser Glu
```

```
385                 390                 395                 400
Lys Ile Val Tyr Ala Val Arg Val Leu Ser Phe Arg Ser Leu Phe Glu
                405                 410                 415
Gln Asp Leu Gln Trp His Gln Ser Glu Gly Arg Thr Pro Ala Leu Leu
            420                 425                 430
Leu Ser Tyr Ile Thr Arg Asp Gly Asn Ala Leu Ala Gly Leu Ser Gly
        435                 440                 445
Ser Val Ile Gly Thr Leu Phe Ser Ile Ser Val Asn Leu Ile Ala Ala
    450                 455                 460
Ile Ile Leu Thr His Ile Ile Ala Trp Arg Ile Ala Leu Val Cys Leu
465                 470                 475                 480
Ala Leu Val Pro Leu Leu Leu Gly Ala Gly Leu Met Glu Leu His Val
                485                 490                 495
Leu Gly Lys Phe Glu Glu Arg
            500
```

<210> 24236
<211> 133
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(83),(106)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24236

```
Trp Pro Ile Leu Lys Glu Asn Xaa Asp Leu Val Pro Leu Phe Lys Trp
1               5                   10                  15
Ala Pro Ser Ser Thr Ser Cys Ser Gln Arg Cys Leu Leu Ser Arg Ser
            20                  25                  30
Trp Gly Gly Asn Ile Asp Arg Glu Pro Leu Met Thr Ser Thr Ser Gly
        35                  40                  45
Ser Glu His Arg Val Thr Gln Ala Glu Gly Gly Phe Glu Phe Lys Asp
    50                  55                  60
Val Ser Phe Lys Tyr Pro Ser Arg Pro Glu Ile Thr Val Leu Asp Asn
65                  70                  75                  80
Ile Ile Xaa Ser Ile Pro Ala Asn Lys His Thr Ala Ile Val Gly Leu
                85                  90                  95
Ser Gly Ser Gly Lys Ser Thr Ile Ala Xaa Leu Val Thr Arg Leu Tyr
            100                 105                 110
Asp Pro Thr Gln Gly Gln Phe Phe Ser Thr Ala Thr Thr Cys Val Met
        115                 120                 125
Ser Thr Leu Gly Thr
    130
```

<210> 24237
<211> 104
<212> PRT
<213> A.fumigatus

<400> 24237

```
Val Ser Val Ile Glu His Val Leu Met Phe Ala Pro Gly Thr Val Ala
1               5                   10                  15
Leu Arg Glu Ile Arg Arg Tyr Gln Lys Ser Thr Glu Leu Leu Ile Arg
            20                  25                  30
```

```
Lys Leu Pro Phe Gln Arg Leu Val Arg Glu Ile Ala Gln Asp Phe Lys
        35                  40                  45
Ser Asp Leu Arg Phe Gln Ser Ser Ala Ile Gly Ala Leu Gln Glu Ser
    50                  55                  60
Val Glu Ala Tyr Leu Val Ser Leu Phe Glu Asp Thr Asn Leu Cys Ala
65                  70                  75                  80
Ile His Ala Lys Arg Val Thr Ile Gln Ser Lys Asp Ile Gln Leu Ala
                85                  90                  95
Arg Arg Leu Arg Gly Glu Arg Ser
            100
```

<210> 24238
<211> 227
<212> PRT
<213> A.fumigatus

<400> 24238

```
Ala Leu Ile Tyr Phe His Arg Gly Val Lys Thr Ala Gly Cys Glu Arg
1               5                   10                  15
Lys Tyr Pro Lys Ser Val Val Ile Phe Ser Ala Pro Thr Ser Leu Val
            20                  25                  30
Ala Thr Val Gly His Gln Thr His Arg Met Arg Arg Lys Leu Leu Asn
        35                  40                  45
Asn Phe Phe Ser Arg Arg Ser Ile Glu Asn Ile Glu Pro Val Ile His
    50                  55                  60
Asn Ser Leu Ser Arg Phe Leu Asp Gly Leu Thr Thr Ala Tyr Lys Glu
65                  70                  75                  80
Gly Ser Val Val Glu Leu Ile Asp Arg Leu Gln Gly Leu Thr Gly Asp
                85                  90                  95
Val Ile Thr Glu Tyr Ala Tyr Gly Glu Asn Tyr Gly Leu Gln Asp Pro
            100                 105                 110
Glu Asn Tyr Gly Lys Gly Ile Val Lys Val Val Gln Glu Gly Thr Asp
        115                 120                 125
Gln Ile His Phe Phe Arg Phe Phe Pro Leu Val Ser Gln Leu Leu Arg
    130                 135                 140
Ile Ile Pro Ser Trp Phe Met Gly Gln Val Phe Pro Ala Arg Ala Ala
145                 150                 155                 160
Ile Tyr Gln Leu Leu Asp Gly Val Arg Lys Gln Ser Ile Leu Ala Leu
                165                 170                 175
Gln Gln Lys Asn Val Ser Thr Ala Pro Gln Arg Met Thr Ile Phe Gln
            180                 185                 190
Ala Leu Thr Ala Pro Glu Val Pro Pro Glu Glu Arg Asn Leu Gln Arg
        195                 200                 205
Leu Gln Asp Glu Gly Leu Val Leu Phe Ala Ala Gly Thr Glu Asn Thr
    210                 215                 220
Ala Thr Thr
225
```

<210> 24239
<211> 207
<212> PRT
<213> A.fumigatus

<400> 24239

```
Asn Ala Trp Met Ala His Thr Gln Thr Pro Val Ile Phe Asn His His
1               5                   10                  15
```

```
Glu Pro Tyr Val Val Asn Asp Ser Ser Ile Ile Asn Val Asp Leu Asn
            20                  25                  30
Gly Ile Gln Ser Thr Arg Ala Ala Lys Glu Asn Lys Glu Arg Val Leu
        35                  40                  45
Ile Leu Thr Pro Leu Arg Asp Ala Ala Pro His Leu Glu Lys Tyr Phe
    50                  55                  60
Asp Leu Leu Tyr Asn Ile Thr Tyr Pro His Glu Leu Ile Asp Leu Ala
65                  70                  75                  80
Phe Leu Val Gly Asp Ser Gln Asp Asp Thr Leu Ala Val Leu Ala Arg
                85                  90                  95
Glu Leu Lys Arg Ile Gln Asp Gln Val Glu Asp Lys Ile Ala Phe Arg
            100                 105                 110
Ser Ala Thr Ile Ile Gln Lys Glu Phe Gly Ala Glu Thr Gly Met Asn
        115                 120                 125
Val Glu Asp Arg His Ser Phe Ala Ala Gln Gly Pro Arg Arg Lys Ala
    130                 135                 140
Ile Ala Arg Ala Arg Asn Tyr Leu Leu Tyr Ser Ala Leu Lys Pro Asp
145                 150                 155                 160
His Ser Trp Val Tyr Trp Arg Asp Val Asp Ile Val Asp Ser Pro Pro
                165                 170                 175
Thr Ile Leu Glu Asp Phe Ile Ser His Asn Arg Asp Ile Leu Val Pro
            180                 185                 190
Ser Met Ser Lys Leu Phe Tyr Ser Ser Cys Leu Ser Ala Asn Val
        195                 200                 205

<210> 24240
<211> 368
<212> PRT
<213> A.fumigatus

<400> 24240
Val Ile Gly Ala Leu Arg Pro Leu Cys Phe Ser Ala Pro Arg Ser Ser
1               5                   10                  15
Ser Gly Leu Asp Gln Leu Phe Ser Ser Ala Gly Leu Trp Ala Thr Ala
            20                  25                  30
Gly Ala Ser Glu Thr Ser Gln Phe Trp Lys Leu Arg Glu Glu Leu Asn
        35                  40                  45
Arg Thr Asp Ala Asp Val Ser Ile Phe Phe Val Asn Ala Asn Ser Val
    50                  55                  60
Met Tyr Glu Tyr Pro Thr Asp Asp Pro Ile Phe Ser Ala His Val Ser
65                  70                  75                  80
Ala Leu Ser Gln Leu Arg Lys Met Gly Met Asn Thr Ser Ile Ala Glu
                85                  90                  95
Phe Asp Asp Trp Tyr Ser Ala Asp Thr Leu Thr Thr Ile Phe Gly Cys
            100                 105                 110
Ile Asp Gln Phe Gln Ile Cys Asn Ala Arg Thr Glu Val Cys Ser Asp
        115                 120                 125
Leu Gln Gly Ile Gln Ala Trp Ala Ser Leu Asp Gly Met Leu Ala Phe
    130                 135                 140
Ile Asp Ala Tyr Asp Leu Ser Pro Leu Gln Ala Asp Thr Leu Ser Val
145                 150                 155                 160
Leu Val Asn Tyr Leu Val Leu Asn Asn Met Tyr Tyr Ser Ile Tyr Gly
                165                 170                 175
Arg Ser Ser Tyr Ala Leu Arg Ala Gln Glu Thr Leu Ser Asn Leu Asn
            180                 185                 190
Gln Val Ala Gln Leu Pro Ser Asn Gln Trp Gln Ile Glu Val Gln Ser
```

```
        195                 200                 205
Trp Phe Glu Thr Asn Leu Ala Lys Leu Gln Glu Arg Ser Val Gln Phe
    210                 215                 220
Ala Thr Gly Pro Arg Ser Ser Arg Glu Gly Lys Gln Arg Val Ala Leu
225                 230                 235                 240
Thr Asp Gln Thr Pro Leu Cys Lys Ala Gln Lys Val Arg Cys Pro Ala
                245                 250                 255
Gly Met Thr Ser Phe Ser Val Leu Gly Val Ser Cys Leu Leu Ala Val
            260                 265                 270
Gly Gly Leu Ile Ile Leu Ser Asn Leu Ser Leu Asp Ser Ile Met Ala
        275                 280                 285
Arg Val Gly Pro Lys Trp Phe Pro Gly Ser Ala Tyr Arg His Leu Asn
    290                 295                 300
Trp Ala Leu Asp Asp Lys Leu Gln Leu Gln Arg Lys Ala Phe Glu Gly
305                 310                 315                 320
Ala Gly Val Gly His Trp His Gly Gln Thr Ala Ala Val Pro Val Thr
                325                 330                 335
Asp Thr Gly Glu Thr Phe Leu Ala Trp Ala Asn Asn Glu Asp Pro Ala
            340                 345                 350
Pro Lys Ser Asp His Leu Asp Thr Ser Asp Asp His Ala Thr Arg Glu
        355                 360                 365
```

<210> 24241
<211> 131
<212> PRT
<213> A.fumigatus

<400> 24241

```
Ser Ser Arg Gln Leu Gln Glu Asp Arg Thr Arg Pro Ile Gln Arg Arg
1               5                   10                  15
Lys Ser Ser Leu Arg Gly Ser Ala Pro Ser Ala Pro Cys Thr Gly Gly
            20                  25                  30
Ser Asp Pro Ser Gly Pro Leu Ala Val Phe Pro His Gly Ser Cys Glu
        35                  40                  45
Ala Pro Trp Gln Thr Val Arg Cys Ala Pro Ala Ala Trp Pro Gly Trp
    50                  55                  60
Ser Arg Thr Thr Ile Ala Pro Gln Ser Ala Thr Gly Cys Ser Ala Ala
65                  70                  75                  80
Ala Gln Pro Gly Ser Gly Ser Thr Ala Ser Pro Gly Arg Ala Met Arg
                85                  90                  95
Thr Met Thr Ala Arg Arg Tyr Cys Ser Thr Tyr Cys Ser Ala Pro Gly
            100                 105                 110
Ser Ser Arg Val Pro Arg Val Cys Arg Pro Gly Ala Gly Leu Gly Arg
        115                 120                 125
Arg Arg Gln
    130
```

<210> 24242
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24242

```
Leu Trp Trp Ser Lys Ser Asp Ser Gly Asn Ser Val Ile Asp Ile Asn
1               5                   10                  15
Ile Ser His Phe Arg Thr Glu Tyr Ile Ala Phe Phe Pro His Lys Tyr
```

```
            20                  25                  30
Gln Lys Ser Ala Tyr Leu Phe Ser His Arg His Pro Arg Thr Phe Phe
        35                  40                  45
Asn Arg Arg Phe Ser Ser Ser Arg Val Tyr Tyr Trp Gln Trp Cys Ser
    50                  55                  60
Thr Thr Glu Arg Asn
65
```

<210> 24243
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24243

```
Asn Ile Glu Gly Gly Trp Leu Leu Ser Tyr Glu Trp Arg Trp Ser Leu
1               5                   10                  15
Ala Asp Phe Asp Arg Asp Phe Gly Met Gln Trp Ser Leu Val His Thr
            20                  25                  30
Phe Arg Asn Glu Asp Asp Gly Glu Thr Ile Arg Thr Leu Ser Trp Gly
        35                  40                  45
Ser Pro Asp Glu Leu Leu Leu Gly Asn Ser His Leu Thr Leu Trp Phe
    50                  55                  60
Leu Asn Asp Val Pro Arg Leu Ile Trp Lys Gln Lys Leu Ala Asn Pro
65                  70                  75                  80
Val Lys Phe Ala Gln Phe Ser Pro Asp Ser Thr Leu Val Ala Thr Thr
                85                  90                  95
Gly Gln Tyr Asp Arg Met Val Lys Val Trp Arg Arg Leu Ser Phe Gly
            100                 105                 110
Ala Asp Asp Val Arg Phe Glu Val Ser Tyr Leu Pro His Gln Ala Val
        115                 120                 125
Val Thr Gly Ile His Trp Arg Lys Pro Ile His Arg Glu Gln Ser Leu
    130                 135                 140
Asp Asn Val Phe Tyr Thr Leu Ser Ala Asp Asn Lys Ile Arg Val Trp
145                 150                 155                 160
Ala Ala Ile
```

<210> 24244
<211> 124
<212> PRT
<213> A.fumigatus

<400> 24244

```
Val Tyr Ile Ser Gly His Ala Leu Val Ile Leu Thr Gly Pro Gln Thr
1               5                   10                  15
Leu Leu Gln Thr Ile Tyr Val Asp Glu Thr Lys Thr Leu Glu Ala Val
            20                  25                  30
Thr Ile Asp Glu Ala Ser Gly Lys Ile Ala Val Cys Gly Gly Pro Asp
        35                  40                  45
Val Phe Ile Tyr Gln Pro Tyr Gly Ile Gln His Glu Thr Leu Lys Val
    50                  55                  60
Gly Gly Tyr Cys Pro Met Asn Gly Gly Gly Arg Leu Leu Thr Leu Ile
65                  70                  75                  80
Val Ile Leu Glu Cys Ser Gly Pro Leu Tyr Ile Pro Phe Ala Thr Lys
                85                  90                  95
Thr Met Ala Arg Gln Ser Glu Pro Cys Arg Gly Ala Leu Pro Met Ser
```

```
            100                 105                 110
Tyr Ser Trp Ala Ile Arg Thr Ser His Cys Gly Ser
        115                 120

<210> 24245
<211> 144
<212> PRT
<213> A.fumigatus

<400> 24245
Gln Asp Asn Arg Val Tyr Val Gly Tyr Pro Asn Ile Ala Gln Gly Asp
1               5                   10                  15
Ile Asn Asp Ser Thr Leu Glu Ile Lys Glu Met Ile Ile Ser Asp Pro
            20                  25                  30
Lys Pro Asp Ser Phe Tyr Leu Asp Gln Thr Gln Val Ile Gly Ser His
        35                  40                  45
Ser Met Phe His Pro Thr Ile Tyr Ala Phe Asp Ala Ala Val Ser Leu
    50                  55                  60
Leu Gly Ala Ala Thr Phe Ala Thr Val Lys Val Pro Gln Val Lys Ala
65                  70                  75                  80
Asn Asp Gly Thr Val Val His Ile Ser Gln Thr Leu Asp Leu Ser Asp
                85                  90                  95
Val Gly Ala Phe Gly Gly Phe Ala Thr Ala Val Met Gln Asn Glu Glu
            100                 105                 110
Ile Lys Leu Asn Ile Tyr Gly Lys Pro Asp Leu Lys Gln Gly Gly Leu
        115                 120                 125
Pro Lys Ile Asp Val Thr Tyr Asn Lys Thr Val Thr Met Lys Gly Glu
    130                 135                 140

<210> 24246
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24246
Ser Gly Leu Gly Gln Thr His Gly Val Arg Thr Gln Leu Ile Met Gln
1               5                   10                  15
Thr Leu Ala Leu Asn Lys Leu Glu Gly Phe Ala Ile Thr Glu Met His
            20                  25                  30
Ala Leu Ser Gly Lys Ser Ala Asn Gly Ala Asn Phe Gly Gly Thr Val
        35                  40                  45
Tyr Ile Pro Asn Pro Ser Pro Met Thr Ile Ser Met Val Cys Cys Phe
    50                  55                  60
Ser Val Pro Glu Trp Tyr Arg Ser Pro Gly Trp Thr
65                  70                  75

<210> 24247
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24247
Arg Leu Glu Leu Pro Ala Ile Ala Asp His Gln Ser Ser Asp Ile Asn
1               5                   10                  15
Tyr Leu Val Met Asp Tyr Leu Ile Thr Asn Gly Tyr Pro Ala Ala Ala
            20                  25                  30
```

Lys Lys Phe Ala Val Glu Ala Asn Ile Gln Pro Arg Ala Asp Ile Glu
35 40 45
Ser Ile Gln Glu Arg Val Glu Ile Arg Thr Ala Ile His Ser Gly Asn
50 55 60
Ile Gln Ala Ala Ile Glu Lys Ile Asn Asp Leu Asn Pro Gln Val Cys
65 70 75 80
Ile Phe Phe Tyr Ser Cys Pro Pro Ala Leu Pro Pro Ile Leu
85 90

<210> 24248
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24248
Val Asn His Ser Cys Tyr Ser Arg Trp Thr Thr Tyr Asn Leu His Leu
1 5 10 15
Ser Ala Val Lys Thr Asp Cys Ser Gly Leu Gln Ala Gly Tyr Phe Val
20 25 30
Cys Ile Gly Val Ala Gly Ser Thr Thr Thr Thr Thr Ser Asn Pro His
35 40 45
Ser Pro Gln Gln Thr Gly Ile Ala Ala Asn Cys Thr Val Ala Ile Asp
50 55 60

<210> 24249
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24249
Val Lys Gly Leu Asp Arg Cys Asn Val Ala Met Ser Ala His Ser Gln
1 5 10 15
Thr Ile Ser Thr Ile Arg Phe Ala Val Leu His Thr Ser Ala Asn Leu
20 25 30
Val Ile Pro Leu Pro Thr Phe Arg Phe Ile Ser Phe Pro Tyr Phe His
35 40 45
Leu Pro Leu Ile Leu Thr Pro Leu Leu Leu Thr Ser Leu Leu His Phe
50 55 60
Ser Thr Leu Ile Phe Thr Pro Ile Ser Pro Pro Ser Leu Ser Phe Leu
65 70 75 80
Pro Thr Leu Phe Ser Thr
85

<210> 24250
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24250
Ser Ile Asn Ser Tyr Lys Asp His Arg Phe Thr Ala Pro Gly Lys Thr
1 5 10 15
Val Ile Lys Leu Leu Asn Arg Val Asn Ile Asn Ile Pro Pro Lys Leu
20 25 30
Gln Pro Thr Ile Pro Glu Thr Ser Ser Asn Gln Thr Thr Leu Pro Pro
35 40 45
Leu Phe Ala Ser Phe Pro Arg His Leu Leu His Pro Pro Ile Ile Leu

```
    50                  55                  60
Gln Leu Val Ile Arg Pro Ile Met Ala Ile Leu Asp Leu Val Ile Met
65                  70                  75                  80
Pro Pro His Phe Leu Gly Tyr Ile Trp Thr Gln Val Pro Val Leu Val
                85                  90                  95
Asp Val Gly Arg Leu Pro Ser Ala Asp Gly Arg Pro Gly Val Val
            100                 105                 110
```

<210> 24251
<211> 160
<212> PRT
<213> A.fumigatus

<400> 24251

```
Pro Gln Lys Cys Arg Thr Phe Ser Lys His Lys Glu Ser Thr Gln Thr
1               5                   10                  15
Ser Ser Ser Ile Thr Ser Arg Ser Pro Ile Arg Thr Pro Thr Phe Leu
            20                  25                  30
Ser Ser Ala Thr Ser Ala Ile Ser Ser Ser Thr Thr Phe Ser Thr Ser
        35                  40                  45
Pro Pro Pro Ala Ile Phe Pro Pro Gly Ser Pro Pro Pro Ile Ile Lys
    50                  55                  60
Arg Ser Thr Lys Pro Ala Val Ser Pro Pro Ser Ser Thr Pro Ser Ala
65                  70                  75                  80
Ser Pro Ser Pro Ser His Ser Asn Ala Arg Leu Ser Pro Val Ser Gln
                85                  90                  95
Thr Ser Ser Lys Lys Pro Tyr Ser Arg Pro Pro Thr Gln Pro Pro Ser
            100                 105                 110
Gly Pro Thr Arg Thr His Lys Ser Pro Ser Ser Gly Pro Ser Pro Ser
        115                 120                 125
Ala Ala Ser Arg Pro Arg Thr Ala Gln Asn Gly Leu Gly Ser Tyr Ile
    130                 135                 140
Pro Ser Pro Lys Arg Leu Pro Val Met Gly Ser Thr Ser Gly Arg Ser
145                 150                 155                 160
```

<210> 24252
<211> 165
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24252

```
Leu Gly Val Arg Val Arg Pro Xaa Val Ser Asp Arg Leu Asn Pro Arg
1               5                   10                  15
Asn Ala Gly Arg Phe Pro Ser Ile Lys Ser Leu His Lys His His His
            20                  25                  30
Arg Ser His Gln Gly Leu Pro Ser Glu Arg Arg Pro Phe Ser Pro Leu
        35                  40                  45
Arg Pro Ala Gln Ser Arg Pro Val Pro Pro Ser Gln Pro Pro Leu Arg
    50                  55                  60
Pro Pro Ser Ser His Leu Val Pro His Pro Pro Ser Ser Lys Asp Leu
65                  70                  75                  80
```

```
Arg Asn Leu Pro Ser Arg Arg Pro His Leu Arg Arg Arg Arg His Leu
                85                  90                  95
Pro Pro Pro Ile Pro Met Leu Ala Ser Pro Pro Ser Arg Lys Pro Pro
            100                 105                 110
Pro Arg Asn Pro Thr Ala Asp Pro Arg Arg Asn Pro Pro Leu Asp Pro
        115                 120                 125
Pro Ala Arg Thr Asn Arg Pro Pro Leu Gly Pro His Pro Arg Arg His
    130                 135                 140
Arg Gly Arg Glu Pro Pro Arg Thr Gly Leu Val Arg Thr Tyr Pro Arg
145                 150                 155                 160
Pro Ser Gly Phe Gln
                165
```

<210> 24253
<211> 179
<212> PRT
<213> A.fumigatus

<400> 24253

```
Arg Val Tyr Thr Asn Ile Ile Ile Asp His Ile Lys Val Ser His Pro
1               5                   10                  15
Asn Ala Asp Leu Ser Leu Leu Cys Asp Gln Arg Asn Leu Val Gln Tyr
            20                  25                  30
His Leu Leu Asn Leu Pro Ser Ala Arg His Leu Pro Thr Trp Phe Pro
        35                  40                  45
Thr Pro His His Gln Lys Ile Tyr Glu Thr Cys Arg Leu Ala Ala Leu
    50                  55                  60
Ile Tyr Ala Val Gly Val Thr Phe Pro Leu Pro Phe Gln Cys Ser Pro
65                  70                  75                  80
Leu Pro Arg Leu Ala Asn Leu Leu Gln Glu Thr Leu Gln Gln Thr Pro
                85                  90                  95
Asp Ala Thr Pro Leu Trp Thr His Pro His Ala Gln Ile Ala Leu Leu
            100                 105                 110
Trp Ala Leu Thr Leu Gly Gly Ile Ala Ala Glu Asn Arg Pro Glu Arg
        115                 120                 125
Ala Trp Phe Val His Thr Leu Ala Gln Ala Ala Ser Ser Asn Gly Ile
    130                 135                 140
Tyr Phe Trp Pro Lys Leu Lys Ser Val Leu Glu Phe Met Leu Trp Tyr
145                 150                 155                 160
Asp Ala Ala Cys Asp Glu Ala Gly Tyr Ser Leu Trp Leu Glu Val Ala
                165                 170                 175
Gly Leu Leu
```

<210> 24254
<211> 176
<212> PRT
<213> A.fumigatus

<400> 24254

```
Arg Leu Leu Val Gly Phe Leu Asp Asn Lys Ser Thr Gly Lys Thr Ala
1               5                   10                  15
Asp Thr Asn Gly Ser Ala Thr Glu Gly Ser Glu Glu Asp Ser Arg Pro
            20                  25                  30
Val Tyr Ala Ser Thr Gly Met Ser Ser Glu Glu Asp Leu Ser Val Glu
        35                  40                  45
```

```
Thr Asp Ile Val Lys Asp Tyr Gln Thr Phe Lys Phe Leu Asp Leu Asn
    50                  55                  60
Lys Pro Leu Leu Leu Gln Leu Trp Asn Ser Gly Phe Ser Lys Glu Phe
65                  70                  75                  80
Tyr Leu Gln Gln Ile His Arg Pro Arg His Tyr Lys Gly Gly Glu Ser
                85                  90                  95
Ala Pro Leu Phe Gly Asn Phe Leu Glu Pro Leu Ser Lys Thr Ala Trp
            100                 105                 110
Tyr Val Val Pro Leu Leu Trp Leu Pro Pro Val Thr Tyr Gly Ser Phe
        115                 120                 125
Val Gly Phe Ala Gly Leu Gly Asn Val Pro Thr Ala Ala Ser Tyr Trp
    130                 135                 140
Leu Phe Gly Leu Phe Leu Trp Thr Leu Ile Glu Tyr Leu Met His Arg
145                 150                 155                 160
Phe Leu Phe His Ile Asp Gly Tyr Val Ile Tyr Cys Cys Leu Pro Phe
                165                 170                 175
```

<210> 24255
<211> 93
<212> PRT
<213> A.fumigatus

```
<400> 24255
Arg Val Arg Asn Leu Leu Leu Ser Ala Leu Leu Thr Ser Pro Asp Val
1               5                   10                  15
Leu Ala Phe Leu Arg Tyr Leu Pro Asp Asn Arg Val Gly Ile Thr Leu
            20                  25                  30
His Phe Leu Leu His Gly Ile His His Tyr Leu Pro Met Asp Lys Tyr
        35                  40                  45
Arg Leu Val Met Pro Pro Ala Leu Phe Val Ile Leu Ala Thr Pro Phe
    50                  55                  60
Trp Lys Leu Ala His Thr Val Phe Phe Tyr Asn Trp Tyr Ala Ala Val
65                  70                  75                  80
Thr Val Phe Cys Gly Gly Val Phe Gly Tyr Ile Trp Leu
                85                  90
```

<210> 24256
<211> 209
<212> PRT
<213> A.fumigatus

```
<400> 24256
Gln Val Arg Val Cys Leu Ser His Phe Pro Cys His Arg Pro Gly Leu
1               5                   10                  15
Ser Ser Ala Gly Leu Thr Thr Leu Pro Val Ser Pro Ser Ala Ser His
            20                  25                  30
Val Ile Val Cys Ser Arg Ser Met Ser Met Arg Ile Tyr Ala Leu Thr
        35                  40                  45
Pro Phe Asp Glu Thr Ser Arg Thr Val Glu Thr Ser Leu Leu Arg Thr
    50                  55                  60
Leu Lys Pro His Thr Gly Pro Val Val Thr Ser Thr Val Asp Pro Thr
65                  70                  75                  80
Ser Thr Leu Leu Ala Thr Gly Ala Ala Asp Gly Ser Ile Lys Val Trp
                85                  90                  95
Asp Ile Arg Gly Gly Tyr Ile Thr His Thr Phe His Val His Gly Gly
            100                 105                 110
```

```
Val Ile Ser Ala Leu Cys Phe Phe Gln Ser Pro Val Gln Asp Gly Asp
        115                 120                 125
Thr Lys Ser Ser Lys Lys Lys Gln Ser Lys Lys Met Ser Val Asp Leu
    130                 135                 140
Asp Gly Asp Asp Asp Met Ala Glu Ser Asp Phe Ala Val Gly Phe Arg
145                 150                 155                 160
Leu Ala Ser Gly Asp Glu Glu Gly Lys Val Arg Val Trp Asp Leu Asn
                165                 170                 175
Lys Arg Lys Ser Val Thr Thr Leu Glu Ser His Val Ser Val Val Arg
            180                 185                 190
Ser Leu Ser Tyr Ser Ser Phe Gly Glu Cys Ile Ala Ile Cys Cys Ser
        195                 200                 205
Arg
```

<210> 24257
<211> 184
<212> PRT
<213> A.fumigatus

```
<400> 24257
Tyr Glu Ala Cys His Ile Leu Pro Ser Glu Asn Ala Leu Leu Ser Ala
1               5                   10                  15
Ala Arg Asp Lys Thr Val Ile Val Trp Asp Val Arg Thr Phe Lys Thr
            20                  25                  30
Arg Arg Ile Ile Pro Val Leu Glu Ser Val Glu Ala Ala Thr Phe Val
        35                  40                  45
Ala Glu Ser Gly Leu Cys Met Val Ala Gly Glu Asn Gly Lys Leu Arg
    50                  55                  60
Val Trp Asp Cys Asn Arg Gly Gly Glu Val Thr Lys Glu Gln Glu Ala
65                  70                  75                  80
Gly Pro Glu Phe Glu Ala Val Val Ala Ile His Tyr Phe Pro Gly Met
                85                  90                  95
Lys Phe Ala Met Thr Val His Ala Asp Gln Thr Leu Arg Leu His Ser
            100                 105                 110
Leu Glu Ser Leu Ser Ala Phe Lys Pro Gly Ser Thr Leu Asp Pro Leu
        115                 120                 125
Thr Val Val Arg Arg Ile Ser Gly Asn Asp Asp Asp Ile Ile Asp Leu
    130                 135                 140
Ala Tyr Val Gly Pro Asp Arg Ser Met Leu Ala Leu Ala Thr Asn Thr
145                 150                 155                 160
Asp Ser Ile Arg Ile Ile Ser Val Ala Pro Ser Glu Asp Arg Pro Ser
                165                 170                 175
Thr Gln Asp Arg Glu Tyr Phe Gly
            180
```

<210> 24258
<211> 164
<212> PRT
<213> A.fumigatus

```
<400> 24258
Ser Val Lys Arg Leu Thr Val Tyr Pro Glu Arg Pro Ala Met Gln Pro
1               5                   10                  15
Gln Phe Arg Val Glu Val Val Ser Asp Asp Asp Phe Pro Glu Leu Tyr
            20                  25                  30
```

```
Arg Ala Leu Trp Glu Ala Phe Glu Asn Pro Tyr Gln Gly Ile Val Arg
        35                  40                  45
Leu Phe Phe Pro Ile His Asn Asp Asp Arg Glu Gly Ser Leu Lys Ala
    50                  55                  60
Cys Val Lys Ser Gln Leu Glu Glu Tyr His Lys Glu Gln Pro His Val
65                  70                  75                  80
Thr Trp Ile Lys Val Val Asp Thr Glu Ala Asn Lys Ile Ala Ala Ala
                85                  90                  95
Ala Lys Trp Tyr Phe Tyr Pro Glu Asn Pro Phe Ala Lys Lys Glu Gly
            100                 105                 110
Pro Ile Val Ala Asp Trp Phe Pro Glu Gly Val Thr Arg Glu Trp Ala
        115                 120                 125
Thr Gln Ala Val Arg Gln Phe Glu His Pro Arg Glu Ser Met Ala Arg
    130                 135                 140
Arg Pro His Ala Cys Gln Phe Gly His Leu His Pro Arg Gly Arg Trp
145                 150                 155                 160
Gly Lys Leu Cys
```

<210> 24259
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24259

```
Val Ser Ala Val Lys His Asn His Ile Met Ser Val Asn Ser Gln Gly
1               5                   10                  15
Lys Tyr Leu Ser Glu Asp Pro Gly Ser Gln Tyr Glu Glu Thr Ile Tyr
            20                  25                  30
Glu Ser Thr Val Arg Ser Pro Ile Asp Leu Ile Met Pro Tyr Glu Thr
        35                  40                  45
Tyr Asn Leu Arg Gln Ile Ala Thr Gln Gln Ser Glu Lys Ser Arg Ile
    50                  55                  60
Leu Ser Tyr Ala Cys Ala Pro Tyr Val Thr Thr Arg Thr Ile Ala Asp
65                  70                  75                  80
```

<210> 24260
<211> 228
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24260

```
Pro Ser Ser Asn Ile Ile Phe Ser Leu Thr Ser Ala Asn Val Val Thr
1               5                   10                  15
Gly Ser Glu Thr Gly His Xaa His Ile Leu Asn Pro Ala Thr Leu Lys
            20                  25                  30
Pro Glu Leu Val Thr Pro Val Thr Pro Gly Ser Pro Leu Val Thr Val
        35                  40                  45
Leu Trp His Glu Arg Leu Asn Gln Ile Leu Thr Gly Ser Ala Asn Ala
    50                  55                  60
Glu Thr His Val Leu Tyr Asn Pro Asn Met Ser Thr Lys Gly Ala Ala
```

```
65                  70                  75                  80
Leu Val Met Ser Arg Ala Pro Lys Arg Arg His Ile Asp Asp Asp Pro
                85                  90                  95
Ser Leu Thr Met Asp Leu Ser Ala Gly Ile Ser Gly Asp Ser Val Val
            100                 105                 110
Val Gly Ser Asn Gly Val Pro His Tyr Ser Ser Ala Thr Trp Ser Ala
        115                 120                 125
Arg His Pro Thr Val Gly Leu Thr Ala Ser Gly Arg Ser Arg Asp Pro
    130                 135                 140
Arg Arg Pro His Leu Pro Ala Thr Thr Pro Phe Ala Lys Ser Gln Pro
145                 150                 155                 160
Asp Glu Arg His Ile Arg Glu Asn Ile Pro Leu Ser Ser Met Arg Asp
                165                 170                 175
Glu Asp Pro Arg Glu Ala Leu Leu Lys Tyr Ala Glu Lys Ala Glu Lys
            180                 185                 190
Asp Pro Ile Phe Thr Lys Ala Trp Lys Glu Thr Gln Pro Val Pro Ile
        195                 200                 205
Phe Arg Glu Leu Ser Asp Asp Glu Glu Glu Gln Glu Pro Asn Lys Lys
    210                 215                 220
Arg Ala Lys Arg
225
```

<210> 24261
<211> 126
<212> PRT
<213> A.fumigatus

<400> 24261

```
Arg Lys Phe Pro Asp Pro Glu Leu Ile Arg Trp Ala Asn Asp Met Ser
1               5                   10                  15
Arg Lys Gly Gly Arg Thr Ser Ser Ile Arg Ser Phe Lys Asp Gln Thr
            20                  25                  30
Ile Gly Thr Gly Ile Phe Leu Leu Asp Val Leu Asn Gly Met Lys Ser
        35                  40                  45
Ser Tyr Val Asp Tyr Asp Leu Val Thr Pro Gly Arg Ser Asp Glu Glu
    50                  55                  60
Ala Tyr Ala Asn Ala Lys Leu Ser Ile Ser Ile Ala Arg Lys Leu Gly
65                  70                  75                  80
Ala Thr Ile Trp Leu Val Pro Glu Asp Ile Cys Gln Val Arg Ser Arg
                85                  90                  95
Leu Val Thr Thr Phe Ile Gly Lys Leu Gly Ser Ser Pro Gln Arg Ser
            100                 105                 110
Cys Leu Ile Thr His Ser Asn Arg Phe Ser Asp Gly His Ile
        115                 120                 125
```

<210> 24262
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24262

```
Arg Pro Ser Ser Asn Leu Asn Arg Ile Leu Leu Lys Arg Arg Val Leu
1               5                   10                  15
Asp Tyr Phe Gln Phe Leu Val Asn Arg Thr Val Glu Arg Ala Lys Lys
            20                  25                  30
Ala Ser Gln Gly Ala Glu His Phe His Val His Ile Ser His Asn Gly
```

```
        35                  40                  45
Pro Leu Leu Pro Asn Gly Asp Phe Lys Gly Lys Asn Tyr Ala Asn Ala
    50                  55                  60
Glu Arg Leu Ser Ser Met Ala
65                  70
```

<210> 24263
<211> 168
<212> PRT
<213> A.fumigatus

<400> 24263

```
Ser Ser His His Pro Thr Glu Asn Gly Ser Thr Leu Ser Pro Ser Asn
1               5                   10                  15
Ser Ser Lys Ser Pro Ser Ser Pro Arg Thr Arg Ala Pro Leu Cys Pro
            20                  25                  30
Leu Gly Pro Pro Thr Asn Thr Ser Lys Thr Gly Thr Ser Pro Thr Ser
        35                  40                  45
Ala Arg Ser Ser Ser Ile Thr Pro Leu Thr Arg Pro Thr Ala Ala Arg
    50                  55                  60
Asn Ser Leu Arg Leu Phe Thr Ser Phe Arg Asp Ser Gly Glu Pro Ala
65                  70                  75                  80
Pro Ala Pro Ala Pro Ala Ser Val Pro Val Pro Ala Pro Ala Gly Lys
                85                  90                  95
Leu Ala Leu Leu Ser Ser Arg Phe Arg Ile Gln Ile Thr Ser Ala Pro
            100                 105                 110
Ile Ala Ser Arg Thr Thr Arg Ala Ser Ser Pro Glu Asn Ser Thr Ala
        115                 120                 125
His Cys Ala Gly Glu Gly Gly Ala Ala Leu Ser Pro Ser Pro Ala Val
    130                 135                 140
Cys Val Arg Val Arg Ser Ser Val Ala Val Trp Arg Gly Ile Ser Ser
145                 150                 155                 160
Thr His Ile Gly Met Ser Ala Val
                165
```

<210> 24264
<211> 296
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24264

```
Gly Leu Met Lys Lys Leu Gln Tyr Thr His Asn Xaa Asp Ala His Val
1               5                   10                  15
Arg Ala Leu Gly Gln Lys Tyr Met Gly Ile Arg Pro Asn Val His Gln
            20                  25                  30
Glu Leu Leu Glu Glu Asn Ser Leu Asn Asp Met Ser Arg His Asp Val
        35                  40                  45
Leu Val Asp Asn Phe Leu Asn Ala Gln Cys Lys Ala Ser Glu Leu Ser
    50                  55                  60
Ser Ser Ser Ile Leu Gln Tyr Ser Leu Thr Leu Leu Ile Asp Phe Ser
65                  70                  75                  80
```

```
Glu Ile Ser Leu Gly Thr Pro Pro Gln Lys Phe Lys Val Val Leu Asp
                85                  90                  95
Thr Gly Ser Ser Asn Leu Trp Val Pro Gly Ser Asp Cys Ser Ser Ile
            100                 105                 110
Ala Cys Phe Leu His Asn Lys Tyr Asp Ser Ser Ala Ser Ser Thr Tyr
        115                 120                 125
Lys Ala Asn Gly Thr Glu Phe Ala Ile Lys Tyr Gly Ser Gly Glu Leu
    130                 135                 140
Ser Gly Phe Val Ser Gln Asp Thr Leu Gln Ile Gly Asp Leu Lys Val
145                 150                 155                 160
Val Lys Gln Asp Phe Ala Glu Ala Thr Asn Glu Pro Gly Leu Ala Phe
                165                 170                 175
Ala Phe Gly Arg Phe Asp Gly Ile Leu Gly Leu Gly Tyr Asp Thr Ile
            180                 185                 190
Ser Val Asn Lys Ile Val Pro Pro Phe Tyr Asn Met Leu Asp Gln Gly
        195                 200                 205
Leu Leu Asp Glu Pro Val Phe Ala Phe Tyr Leu Gly Asp Thr Asn Lys
    210                 215                 220
Glu Gly Asp Asn Ser Glu Ala Ser Phe Gly Gly Val Asp Lys Asn His
225                 230                 235                 240
Tyr Thr Gly Glu Leu Thr Lys Ile Pro Leu Arg Arg Lys Ala Tyr Trp
                245                 250                 255
Glu Val Asp Phe Asp Ala Ile Ala Leu Gly Asp Asn Val Ala Glu Leu
            260                 265                 270
Glu Asn Thr Gly Ile Ile Leu Asp Thr Gly Thr Ser Leu Ile Ala Leu
        275                 280                 285
Pro Ser Thr Leu Ala Asp Leu Leu
    290                 295
```

<210> 24265
<211> 110
<212> PRT
<213> A.fumigatus

<400> 24265

```
Arg Asp Ser Leu Pro Asp Leu Thr Phe Thr Leu Ala Gly His Asn Phe
1               5                   10                  15
Pro Ile Gly Pro Tyr Asp Tyr Thr Leu Glu Val Gln Gly Leu Leu Pro
            20                  25                  30
Ser Ala Pro Phe Asn Gly Ala Trp Thr Ser Pro Ile Pro Val Gly Pro
        35                  40                  45
Pro Cys Leu Phe Trp Gly Lys Thr Leu Ser Cys Arg Lys Val Gly Thr
    50                  55                  60
Arg Phe Thr Asn Leu Trp Val Thr Thr Pro Val Gly Ser Gly Leu Arg
65                  70                  75                  80
Ala Gln Ile Asn Val Phe Ser Ala Trp Gln Pro Pro Leu Phe Ile Pro
                85                  90                  95
Asn Cys Asp Cys His Glu Arg Leu Arg Leu Phe Pro Ser Leu
            100                 105                 110
```

<210> 24266
<211> 130
<212> PRT
<213> A.fumigatus

<400> 24266

```
His Ile His Ala Pro Gln Phe Thr Asp Pro Trp Thr Ser Ala His Thr
1               5                  10                  15
Ser Ser His Ser Thr Pro Pro Val Tyr Ala Thr Ser Met Gly Ile Asn
            20                  25                  30
His Thr Lys Pro Glu Glu Val Ser Arg Pro Thr Leu Ser Met Pro Tyr
        35                  40                  45
Ser Ser Val Pro Val Ser Ala Pro Ser Met Val Thr Ser Gly Asn Phe
    50                  55                  60
Ser Thr Ala Pro Thr Gly Tyr Ser Gly Ala Glu Val Ile Gly Leu Gln
65                  70                  75                  80
His Asp Met Pro Arg Thr Thr Phe Glu Gln Ala Pro Thr Tyr Thr Thr
                85                  90                  95
Ala Ser Ser Met Ser Ser Phe Thr Pro Ala Thr Tyr Ala Pro Ile Ser
            100                 105                 110
Tyr Ala Pro Pro Leu Ala His Pro His Pro Asp Ser Arg Arg Val Ser
        115                 120                 125
His Val
    130
```

<210> 24267
<211> 195
<212> PRT
<213> A.fumigatus

```
<400> 24267
Lys His Lys Pro Leu Thr Ser Ser Phe His Ser Ser Asp Pro Arg Gly
1               5                  10                  15
Asn His Ser Gln Pro Pro Ser Gly Pro Thr Phe Gly Asp Ala Leu Asp
            20                  25                  30
Ala Ser Arg Gly Met Val Ala Leu Ser Gln Asp Leu Thr Pro Arg Asn
        35                  40                  45
Ile Tyr Ala Pro Arg Ala Arg Gly Ser Gly Asp Ser Tyr Gly Phe Leu
    50                  55                  60
Ala Ala His Ser Ser Gly Ser Ser Ile Ser Ser Gly Gly Asn Tyr Pro
65                  70                  75                  80
Tyr Tyr Ser Ala Ser Val Ala Ser Val Glu Ser Ser Val Thr Asp Tyr
                85                  90                  95
Ser Ser Thr Thr Ser Glu Ser Tyr Glu Asn Gly His Leu Ser Arg Thr
            100                 105                 110
Leu Pro Arg Pro Ser Asn Leu Leu Ser Gly Ser Ala Pro Pro Gly Pro
        115                 120                 125
Gln Ser Met Met Ser Gln Phe Ser Ser Lys Met Pro Ser Asn Thr Gln
    130                 135                 140
Lys Lys His Lys Cys Lys Val Cys Asp Lys Arg Phe Thr Arg Pro Ser
145                 150                 155                 160
Ser Leu Gln Thr His Met Tyr Ser His Thr Gly Glu Lys Arg Lys Tyr
                165                 170                 175
Phe Val Ile Phe Leu Val Glu Ala Phe Gly Thr Asp Phe Glu Thr Ser
            180                 185                 190
Val Cys Met
        195
```

<210> 24268
<211> 135
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24268
Tyr Phe Ser Leu Lys Pro Ser Val Leu Thr Leu Lys Leu Ala Phe Ala
1 5 10 15
Cys Asp Val Glu Arg Cys Gly Arg His Phe Ser Val Val Ser Asn Leu
20 25 30
Arg Arg His Lys Lys Val His Lys Gly Glu Lys Lys Asn Val Ser Gly
35 40 45
Gly Glu Asp Glu Xaa Lys Ala Arg Ser Leu Leu Cys Thr Arg Arg Thr
50 55 60
Met Pro Phe Pro Phe Leu Cys His Leu Met Asp Ala Arg Ser Phe Ser
65 70 75 80
Ala Trp Val Ile Ala Leu Ser Gly Arg Pro Asn His Leu Pro Thr Asn
85 90 95
Leu Val Gly Ser Arg Pro Leu Tyr Asn Lys Phe Ile Pro Arg Cys Phe
100 105 110
Cys Tyr Phe Phe Pro Phe Phe Leu Phe Leu Phe Tyr Ile Ser Leu Leu
115 120 125
Ile Ser Ala Arg Pro Glu Asn
130 135

<210> 24269
<211> 326
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (265),(313)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24269
Trp Val Pro Val Gly Ala Leu Val Phe Thr Glu Pro Cys Arg Ser Phe
1 5 10 15
Gln Pro Arg Gly Glu Asp Ser Ala Val Tyr Val Cys Ala Leu Lys Phe
20 25 30
Val Asp Ile Gly Pro Ala Ser Gln Ser Val Arg Arg Pro Asp Ala Gly
35 40 45
Arg Leu Glu Ser Thr Ala Leu Arg Leu Leu Ile Glu Ser Leu Pro His
50 55 60
Ala Thr Ile Ser Thr Ile Gln Ala Gly Leu Leu Leu Met Glu Lys Ser
65 70 75 80
Thr Ile Ala Thr His Ala Leu Asn Ala Gln Leu Val Thr Ala Gly Phe
85 90 95
Glu Leu Gly Leu His Gln Asp Cys Ser Gly Trp Asn Met Glu Thr Trp
100 105 110
Glu Lys Gly Leu Arg Lys Arg Leu Ala Trp Ala Leu Tyr Met Gln Asp
115 120 125
Lys Trp Ser Ala Leu Ile His Gly Arg Pro Ser His Ile Phe Ala Phe
130 135 140
Asn Trp Thr Val Lys Asp Leu Val Glu Gln Asp Phe Thr Glu Ala Phe

```
145                 150                 155                 160
His Thr Asp Asn Ala Gln Gln Asp Asp Ala Asp Val Gly His Gly Pro
                165                 170                 175
Leu Phe Phe Cys His Met Val Ala Leu Thr Thr Ile Leu Ser Asp Ile
            180                 185                 190
Leu Asp Arg Phe Tyr Thr Leu Gln Ala Ile Glu Glu Phe Lys Ala Ala
        195                 200                 205
Gly Ala Asn Arg Thr Arg Met Ile Leu Glu Arg Ala Lys Pro Ala Gln
    210                 215                 220
Ile Arg Leu Lys Glu Trp Phe Ala Ser Leu Pro Pro Gln Leu Lys Met
225                 230                 235                 240
Asp Ser Ser Ile Asp Leu Phe Asp Thr Val Thr Glu Asp Thr Ala Arg
                245                 250                 255
Asn Gly Pro Leu His Leu Ser Tyr Xaa Ala Thr Arg Asn His Pro Pro
            260                 265                 270
Pro Leu His His Ser Val Leu Leu Pro Gly His Gly Arg Arg Pro Thr
        275                 280                 285
Phe Ser Thr Phe Ala Ala Pro Ala Gln Lys Thr Arg Leu Asn Phe Asn
    290                 295                 300
His Gly Leu Cys Gln Pro Ala Ala Xaa Ser Leu Pro Pro Leu Phe Leu
305                 310                 315                 320
Pro Gly Gly Phe Pro Asp
                325
```

<210> 24270
<211> 159
<212> PRT
<213> A.fumigatus

<400> 24270

```
Pro Cys Gly Phe Pro Ala Val Val Gln Val Cys Gln Pro Ala Arg Glu
1               5                   10                  15
Gly Phe Asp Pro Ser Ser Thr Ala Ile Arg Gln Thr Asp Ser Arg Ala
            20                  25                  30
Gly Lys Pro Ile Asp Ala Asp Ala Cys Gln Asn Phe Lys Asp Asn Val
        35                  40                  45
Leu Phe Gln Ser Trp Gln Thr Arg Ser Asp Val Leu Asn Phe Cys Ala
    50                  55                  60
Gly Val Ala Thr Ser Pro Asp Pro Asp Asp Pro Asp Leu Ile Leu Arg
65                  70                  75                  80
Gln Glu Glu Ser Ala Lys Glu Arg Glu Lys Ile Val Asp Glu Arg Leu
                85                  90                  95
Asp Pro Tyr Ser Ala Arg Tyr Phe Pro Lys Glu Leu Arg Thr Glu Ser
            100                 105                 110
Leu Ala Asn Leu Val Arg Asn Gln Arg Thr Val Glu Asp Ile Ile Arg
        115                 120                 125
Ala Arg Thr Trp Ser Val Val Thr Glu Arg Cys Ser Asp Ser Ala Tyr
    130                 135                 140
Thr Trp Glu Glu Ala Leu Asn Asn Trp Arg Gln Thr Lys Gln Arg
145                 150                 155
```

<210> 24271
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(19)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24271
Arg Pro Val His Phe Glu Leu Thr Asp Leu Arg Asp Thr Xaa Glu Pro
1 5 10 15
Lys Val Xaa Gly Gly Ser Pro Ser Gln Val Ala Ala Ile Asn His Gly
20 25 30
Asn Tyr Phe Leu His Ala Ala Met Glu Ser Leu Leu Lys Glu Arg His
35 40 45
Gln His Pro Cys Arg Gln Ser Gly Arg Thr Leu Ser Gly Pro Ser Asp
50 55 60
Tyr Glu Lys
65

<210> 24272
<211> 90
<212> PRT
<213> A.fumigatus

<400> 24272
Lys Ile Ser Arg Gly Leu Trp Tyr Ser Ala Arg Phe Val Ile Val Gly
1 5 10 15
His Leu Asp Asp Arg Ser Ser Ala Lys Ile Pro Cys Tyr Val Gln Arg
20 25 30
Gly Arg Lys Asn Gly Phe Arg Cys Arg Arg Arg Ile Arg Phe Cys Ser
35 40 45
Asn Gly Leu Phe Leu Trp Ser Ala His Asn Ser Ser Gly Ala Pro Phe
50 55 60
Asp Thr Gly Thr Ser Tyr Arg Pro Gly Ala Arg Phe Gly Pro Ser Gly
65 70 75 80
Ile Arg Gln Gly Ser Arg Arg Leu Asn Leu
85 90

<210> 24273
<211> 96
<212> PRT
<213> A.fumigatus

<400> 24273
Tyr Ser Gly Asp Val Val Cys Leu Leu Ser Leu Lys Asn Ile Phe Asp
1 5 10 15
Arg Ala Asn Trp Ser Arg Tyr Asp Asn Ala Trp Ala Ile Gln Gln Ile
20 25 30
Glu Glu Gly His Asn Ser Leu Leu Met Arg Lys Pro Phe Thr Asp Ala
35 40 45
Asp Ala Glu Gly Leu Ser Arg Ala Gly Lys Thr Leu Pro Arg Ile Ile
50 55 60
Thr Leu Gly Gly Asp His Thr Ile Thr Leu Pro Leu Leu Arg Ser Ile
65 70 75 80
Asn Lys Ala Tyr Gly Pro Val Thr Val Ile His Phe Asp Ser His Leu
85 90 95

<210> 24274

<211> 65
<212> PRT
<213> A.fumigatus

<400> 24274
Pro Trp Ile Val Ala Pro Ala Thr Gly Thr Pro Glu Thr Gly Gly Trp
1 5 10 15
Ser Thr Arg Glu Leu Arg Thr Ile Ile Arg Gly Leu Asp Gly Leu Asn
20 25 30
Phe Ile Gly Ala Asp Ile Val Glu Val Ala Pro Ala Tyr Asp Thr Asn
35 40 45
Ala Glu Leu Ser Thr Met Tyr Val Pro Cys Leu Phe Asp Leu Lys Cys
50 55 60
Asn
65

<210> 24275
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24275
Leu Pro Met Leu Thr Met Val Val Trp Gln Gly Ser Arg Lys Leu Gly
1 5 10 15
Phe Ser Gly Gly Tyr Asn Val Pro Leu Glu Ala Asn Pro Phe Val Ser
20 25 30
Glu Leu Lys Val Leu Asp Cys Gly Asp Ile Pro Val Thr Ser Tyr Val
35 40 45
Ser Tyr Leu Ser Lys Ile Phe Leu Thr Val Leu Thr Gly Leu Asp Thr
50 55 60
Thr Met Leu Gly Pro Ser Ser Arg Leu Lys Lys Asp Ile Thr Ala Cys
65 70 75 80

<210> 24276
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24276
Leu Ile Leu Val Val Trp Gly Asn Lys Pro Thr Ala Cys Arg His Gly
1 5 10 15
Gln Gly Thr Phe Arg Arg Ser Ile His Cys His Met Arg Thr Pro Pro
20 25 30
Ile Cys Leu Ile Leu Lys Leu Gln Val Lys Gln Leu Ala Ile Asn Asn
35 40 45
Phe Leu Leu Pro Leu Ser Phe Leu Leu Pro Phe Gln Glu
50 55 60

<210> 24277
<211> 141
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (125)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24277

```
Ile Ile Phe Phe Tyr Leu Tyr Pro Ser Phe Tyr Pro Phe Lys Asn Lys
1               5                  10                  15
His Thr Gly Val Tyr Gln Ile Met Glu Asn Ser Ser Ser Ser Glu Gly
            20                  25                  30
Arg Asp Pro Ser Ala Phe Leu Gly Glu Ile Ile Gly Ala Pro Val Thr
        35                  40                  45
Val Lys Leu Asn Ser Gly Val Val Tyr Lys Gly Phe Tyr Ile Ile Ser
    50                  55                  60
Ile Leu Cys Ile Ser Ile Phe Val Leu Ile Ile Ser Thr Gly Glu Leu
65                  70                  75                  80
Gln Ser Val Asp Gly Tyr Met Asn Ile Ala Leu Glu Arg Ser Glu Glu
                85                  90                  95
Phe Val Asp Gly Lys Leu Lys Arg Ser Tyr Gly Asp Ala Phe Ile Arg
            100                 105                 110
Arg Lys Ile Met Val Arg Ser Cys Asn Gln Ser Phe Xaa Asp Pro Pro
        115                 120                 125
Ser Ile Leu Met Asn Leu Val Leu Tyr Ile Ser Ala Gln
    130                 135                 140
```

<210> 24278
<211> 267
<212> PRT
<213> A.fumigatus

<400> 24278

```
Thr Leu Glu Arg Gln Thr Ile Ser Ser Val Phe Ser Val Ile His Ser
1               5                  10                  15
Ala Asp Leu Leu Val Phe Gln Pro Pro Arg Cys Pro Ser Leu Leu Arg
            20                  25                  30
Pro Arg Arg His Gly Ala Ser Leu Pro Trp Leu Thr Met Pro Phe Ile
        35                  40                  45
Phe Phe Asp Tyr Gln Phe Trp His Leu Pro Val Ser Pro Leu Leu Pro
    50                  55                  60
Val Val Ser Tyr Thr Leu Ser Lys Ser Ala Ala Leu Thr Leu Arg Leu
65                  70                  75                  80
Thr Ile Phe Gln Ser Leu Val Trp Leu Glu Thr Asp Arg Val Ser Ser
                85                  90                  95
Glu Leu Ile Tyr Pro Arg Asn Val Pro Ala Asp Ala Arg Thr Asn Val
            100                 105                 110
Pro Ser Pro Arg Gln Phe Gly Ile Ser Asp Tyr Glu Asp Leu Gln Ile
        115                 120                 125
Pro Thr Pro Asp Gly Glu Ser Leu His Ala Phe Phe Ile Arg Pro Ala
    130                 135                 140
Asn Lys Gln His Ala Arg Asn Ile Thr Val Leu Met Phe His Gly Asn
145                 150                 155                 160
Ala Gly Asn Ile Gly His Arg Val Pro Ile Ala Lys Val Leu Gln Glu
                165                 170                 175
Ile Leu Gly Cys Asn Val Leu Met Leu Glu Tyr Arg Gly Tyr Gly Leu
            180                 185                 190
Ser Thr Gly Val Pro Asp Glu Ala Gly Leu Lys Ile Asp Ala Gln Thr
        195                 200                 205
Gly Phe Asp Tyr Leu Arg Gln Arg Ala Glu Thr Arg Asn Thr Thr Ile
    210                 215                 220
```

```
Ile Val Tyr Gly Gln Ser Leu Gly Gly Ala Val Ala Ile Asn Leu Val
225                 230                 235                 240
Ala Glu Asn Gln Ala Ser Gly Asp Val Gly Gly Leu Ile Leu Glu Asn
                245                 250                 255
Thr Phe Leu Ser Ile Arg Lys Leu Ile Pro Thr
            260                 265
```

<210> 24279
<211> 222
<212> PRT
<213> A.fumigatus

<400> 24279

```
Tyr Gly Arg Ser Gly Leu Lys Asn Pro Arg Glu Pro Lys Trp Ile Ser
1               5                   10                  15
Gly Leu Asp Gln Arg Tyr Gln Ser Ala Val Val Gly Ser Thr Val Phe
            20                  25                  30
Glu Ala Val Arg Leu His Ala Leu Thr Asp Ile Arg Ser His Gly Trp
        35                  40                  45
Pro Tyr Leu Asp Leu Lys Val Ala Phe Ser Gly Pro Leu Leu Ser Gly
    50                  55                  60
Tyr Cys Ile Leu Ser Leu Phe Pro Phe Phe Leu Phe Phe Met Leu Pro
65                  70                  75                  80
Ser Ile Ser Thr Phe Ser Ser Leu Pro Val Ser Leu Ser Phe Ser Asp
                85                  90                  95
Pro Phe Ser Ser Pro Val Phe Ser Ser Pro Pro Ser Leu Asp Tyr Val
            100                 105                 110
Phe Ala Pro Ser Pro Ser Tyr Pro Arg Ile Ser Tyr Phe Leu Leu Ser
        115                 120                 125
Pro Cys Val Leu Leu Pro Phe Ser Ser Pro Leu Leu Pro Leu Phe Leu
    130                 135                 140
Ser Leu Asp Ser Leu Pro Leu Leu Phe Ser Pro Phe Leu His Phe Leu
145                 150                 155                 160
Leu Pro Leu Phe Leu Ile Pro Ser Phe Pro Ser Leu Thr Leu Ser Leu
                165                 170                 175
Gly Ile Ser Cys Leu Phe Ser Ile Tyr Cys Val Leu Ser His Val Phe
            180                 185                 190
Ser Ser Phe Leu Ser Ser Leu Leu Leu Ser Ser Phe Asn Phe Ser Phe
        195                 200                 205
Arg Pro Tyr Phe Phe Phe Val Thr Leu Leu Ala Ser Phe Pro
    210                 215                 220
```

<210> 24280
<211> 169
<212> PRT
<213> A.fumigatus

<400> 24280

```
Lys Trp Pro Phe Leu Gly Pro Ser Phe Pro Ala Ile Ala Phe Phe Pro
1               5                   10                  15
Phe Ser Pro Phe Phe Ser Ser Ser Cys Phe His Pro Phe Leu Pro Ser
            20                  25                  30
Leu Pro Phe Pro Phe Pro Ser His Phe Leu Ile Pro Ser His Leu Pro
        35                  40                  45
Ser Phe Leu Pro Pro Pro Leu Leu Thr Met Tyr Leu Leu Leu Leu Pro
    50                  55                  60
```

```
Leu Thr Pro Ala Phe Pro Ile Phe Cys Ser Leu Leu Val Phe Phe Ser
65                  70                  75                  80
Leu Phe Pro Pro Pro Ser Phe Leu Ser Ser Cys Pro Trp Thr Pro Tyr
                85                  90                  95
Leu Phe Phe Ser Leu His Ser Tyr Thr Phe Ser Ser Pro Tyr Phe Leu
            100                 105                 110
Phe Arg Pro Ser Pro Leu Ser Leu Phe Leu Leu Ala Ser Pro Val Phe
        115                 120                 125
Ser Leu Ser Thr Val Ser Tyr Pro Met Cys Ser Leu His Ser Phe Leu
    130                 135                 140
Leu Phe Phe Ser Pro Leu Ser Ile Ser Leu Phe Val Pro Thr Ser Ser
145                 150                 155                 160
Ser Ser Pro Phe Leu His Leu Phe Leu
                165
```

<210> 24281
<211> 142
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24281

```
Ala Gly Phe Xaa Arg Glu Thr Ala Pro Ser Ser Pro Val Val Lys Thr
1               5                   10                  15
Ile Ile Gln Gly Ile Pro Ala Phe Ala Leu Ala Cys Gly Ile Trp Phe
            20                  25                  30
Met Pro Phe Ser Pro Arg Trp Leu Val Lys Val Gly Arg Asp Gln Glu
        35                  40                  45
Ala Gln Ser Thr Leu Ala Trp Met Arg Lys Leu Pro Ile Glu His Asp
    50                  55                  60
Leu Val Gln Met Glu Tyr Leu Glu Ile Lys Ala Glu Ala Leu Phe Glu
65                  70                  75                  80
Lys Arg Ala Phe Pro Asn Thr Ala Glu Lys Gly Ile Leu Lys Asn Gln
                85                  90                  95
Trp Ala Gln Tyr Ala Asn Cys Phe Ser Thr Met Asp Asn Phe Lys Arg
            100                 105                 110
Val Cys Thr Ala Trp Leu Val Met Phe Phe Gln Gln Trp Ser Gly Ile
        115                 120                 125
Asp Ala Ser Met Ser Val Asn Ser Val Phe Leu Ala Leu Ser
    130                 135                 140
```

<210> 24282
<211> 82
<212> PRT
<213> A.fumigatus

<400> 24282

```
Arg Leu Lys Val Pro Val Phe Glu Gln Thr Glu Glu Lys Asn Glu Ala
1               5                   10                  15
Met Thr Arg Asp Val Glu Glu Ser Val Arg Glu Phe Thr Arg Ser Leu
            20                  25                  30
Glu Asp Ser Leu Lys Glu Glu Gly Glu Thr Ser Thr Arg Glu His Glu
```

```
        35                  40                  45
Arg Arg Arg Trp Glu Asp Ala Leu Gly Val Glu Asp Val Ile Arg Asp
    50                  55                  60
Phe Ile Tyr Asp Leu Gln Arg Gly Ser Arg Thr Ala His Ile Arg Lys
65                  70                  75                  80
Glu Glu
```

<210> 24283
<211> 149
<212> PRT
<213> A.fumigatus

<400> 24283

```
Asp Pro His Pro Thr Ile Phe Ala Ser Arg Tyr Ile Trp Leu Thr Met
1               5                   10                  15
Leu Ser Leu Ala Cys Arg Met Glu Ala Gln Lys Arg Glu Glu Glu Leu
            20                  25                  30
Leu Lys Glu Lys Glu Ala Gln Glu Ala Arg Leu Arg Ala Leu Glu Glu
        35                  40                  45
Gln Val Arg Gln Gly Lys Ile Arg Lys Gln Glu Glu Lys Arg Arg Lys
    50                  55                  60
Glu Glu Ala Glu Arg Leu Ala Lys Glu Lys Glu Ala Ala Leu Ala Ala
65                  70                  75                  80
Gln Arg Ala Glu Ile Glu Arg Ala Lys Glu Arg Glu Arg Gln Leu Gln
                85                  90                  95
Leu Glu Leu Glu Arg Leu Asp Glu Glu Ser Ser Ser Asp Asp Glu Gly
            100                 105                 110
Pro Val Asn Ile Thr Pro Glu Asp Ser Thr Pro Thr Gln Ser Gln Leu
        115                 120                 125
Leu Pro Thr Val Thr Pro Pro Ala Pro Val Phe Tyr Pro Arg Gly Pro
    130                 135                 140
Glu Val Thr Ala Gln
145
```

<210> 24284
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24284

```
Asp Arg Pro Arg Arg Pro Pro Arg Gln Ile Arg Arg Ser Pro Pro Pro
1               5                   10                  15
Pro Val Ser Pro Arg Arg Ala Glu Gln Arg Pro Ser Pro Asp His Gln
            20                  25                  30
Pro Gly Val Pro Ala Ala Gln Ala Gly Arg Leu His Pro Val Gly Arg
        35                  40                  45
Pro Glu Leu Pro Arg Arg Arg Gly Arg Gln Gly Gln Cys Pro Ala Arg
    50                  55                  60
Arg Gly His Ser Arg Ser
65                  70
```

<210> 24285
<211> 242
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (60)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24285
Glu Ser Thr Pro Val Arg Ile Ala Asp Leu Ala Thr Gly Thr Ala Ile
1 5 10 15
Trp Leu Leu Asp Leu Phe Arg Asp Pro Ala Val Ala Arg Tyr Lys Ser
20 25 30
Ile Arg Leu Asp Gly Phe Asp Ile Asp Leu Ala Asn Ala Leu Leu Pro
35 40 45
Glu Trp Leu Pro Thr Pro Ile Thr Leu Arg Gln Xaa Ser Leu Phe Glu
50 55 60
Thr Val Pro Gly Asp Leu Arg Gly Lys Tyr Asp Val Val His Leu Arg
65 70 75 80
Leu Leu Val Leu Val Val Gln Asn Ser Asp Pro Leu Pro Ile Ile Asn
85 90 95
Gln Ala Tyr Gln Leu Leu Lys Pro Gly Gly Tyr Ile Gln Trp Asp Asp
100 105 110
Leu Asn Tyr Pro Asp Gly Ala Val Val Lys Ala Asn Ala Leu Arg Asp
115 120 125
Val Ala Thr Pro Ala His Asp Ala Phe Leu Arg Phe Ala Arg Ser Asn
130 135 140
Gly Arg Asn Asp Trp Val Leu Asp Leu Pro His His Leu Met Ser Arg
145 150 155 160
His Gly Gly Phe Glu Asp Ala His Ile Cys Asn Tyr Thr Asp Arg Val
165 170 175
Glu Leu Arg Lys Ala Asn Gly Asp Gln Tyr Ile Leu Val Met Glu Glu
180 185 190
Phe Ser Ala Arg Leu Lys Arg Ala Gly Lys Met Glu Asp Ala His Asn
195 200 205
Ile Asp Leu Met Ile Arg Gly Leu Ala Glu Glu Ser Arg Arg Gly Val
210 215 220
Gly Leu Ser Met Pro Lys Ala Val Cys Val Ala Arg Lys Lys Gly Asp
225 230 235 240
Arg Ala

<210> 24286
<211> 331
<212> PRT
<213> A.fumigatus

<400> 24286
Ala Gly Ile Pro Ile Phe Ile Arg Leu Glu Val Pro Asn Ser Ile Ala
1 5 10 15
Ala Phe Pro Arg Ser Val Glu Asn Gly Ala Ile Pro Gln Leu Gly Gly
20 25 30
Ser Leu Ser Leu Asn Gly Arg Asp Ser Lys Phe His Ile Thr Asp Tyr
35 40 45
Asp Val Gly Gly Phe Asn Leu Ile Tyr Ser Ser Ala Glu Val Phe Thr
50 55 60
Trp Ala Lys Gly Asp Asn Lys Lys Arg Val Leu Val Leu Tyr Gly Gly
65 70 75 80

```
Ala Gly Glu Leu His Glu Phe Ala Leu Pro Lys His Leu Pro Arg Pro
                85                  90                  95
Thr Val Val Glu Gly Ser Tyr Val Lys Ile Ala Lys Gln Gly Ser Ala
            100                 105                 110
Trp Val Val Gln Trp Glu Val Ala Ala Gln Arg Arg Asp Leu Arg Ala
        115                 120                 125
Gly Lys Leu Glu Ile His Leu Leu Trp Arg Asn Asp Ala Tyr Gln His
    130                 135                 140
Trp Val Leu Glu Leu Pro Ala Lys Gln Pro Ile Ala Asn Tyr Ser Ser
145                 150                 155                 160
Pro Ser Lys Glu Thr Val Ile Val Lys Gly Gly Tyr Leu Leu Arg Ser
                165                 170                 175
Ala Trp Ile Thr Asp Asn Asp Leu His Leu Thr Gly Asp Val Asn Val
            180                 185                 190
Thr Thr Pro Leu Glu Val Ile Ser Ala Pro Lys Arg Phe Asp Gly Ile
        195                 200                 205
Val Phe Asn Gly Gln Ser Leu Lys Ser Thr Arg Ser Lys Ile Gly Asn
    210                 215                 220
Leu Ala Ala Thr Val His Tyr Gln Pro Pro Ala Ile Ser Leu Pro Asp
225                 230                 235                 240
Leu Lys Arg Leu Asp Trp Lys Tyr Ile Asp Ser Leu Pro Glu Ile Ser
                245                 250                 255
Thr Glu Tyr Asn Asp Glu Gly Trp Thr Pro Leu Thr Asn Thr Tyr Thr
            260                 265                 270
Ser Asn Thr Arg Glu Phe Thr Gly Pro Thr Cys Leu Tyr Ala Asp Asp
        275                 280                 285
Tyr Gly Tyr His Gly Gly Ser Leu Ile Tyr Arg Gly His Phe Thr Ala
    290                 295                 300
Asn Gly Asp Glu Ser Trp Val Phe Leu Asn Thr Ser Gly Gly Val Cys
305                 310                 315                 320
Phe Ala Asn Ser Val Trp Leu Asn Gln Thr Phe
                325                 330
```

<210> 24287
<211> 159
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (140)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24287

```
Val Ile Phe Thr Ile Met Asn Val Cys Gly Ala Asn Ala Asn Leu Cys
1               5                  10                  15
Ile Val Pro Gly Ile Gly His Arg Val Lys Ser Arg Asn Asn Pro Asp
            20                  25                  30
Leu Arg Val Glu Leu Val Lys Glu Phe Ala Lys Lys His Phe Pro Ser
        35                  40                  45
Thr Lys Leu Leu Asp Tyr Ala Ile Ala Val Glu Thr Val Thr Thr Ser
    50                  55                  60
Lys Asn Asp Asn Leu Ile Leu Asn Val Asp Gly Cys Val Ala Val Cys
65                  70                  75                  80
Phe Val Asp Leu Met Arg Asn Cys Gly Ala Phe Ser Pro Glu Glu Val
                85                  90                  95
```

```
Glu Asp Tyr Met Lys Met Gly Val Leu Asn Gly Leu Phe Val Leu Gly
            100                 105                 110
Arg Ser Ile Gly Leu Ile Ala His Tyr Phe Asp Gln Lys Arg Leu Arg
        115                 120                 125
Thr Gly Leu Tyr Arg His Pro Trp Asp Asp Ile Xaa Tyr Leu Leu Pro
    130                 135                 140
Thr Leu Gln Lys Gly Gly Ala Glu Gly Arg Val Glu Val Asn Ile
145                 150                 155
```

<210> 24288
<211> 82
<212> PRT
<213> A.fumigatus

<400> 24288

```
Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp His Gly Pro Ala Val Ser
1               5                   10                  15
Gly Ala Met Asn Thr Ile Ile Thr Thr Arg Ala Gly Lys Asp Leu Ile
            20                  25                  30
Ser Ala Leu Val Ser Gly Leu Leu Thr Ile Gly Ser Arg Phe Gly Gly
        35                  40                  45
Ala Leu Asp Gly Ala Ala Glu Glu Phe Thr Lys Ala Phe Asp Lys Gly
    50                  55                  60
Met Ser Pro Arg Asp Phe Val Asp Thr Met Arg Lys Glu Asn Lys Leu
65                  70                  75                  80
Ser Lys
```

<210> 24289
<211> 103
<212> PRT
<213> A.fumigatus

<400> 24289

```
Trp Val Arg Ala Pro Ser Ala Ile Ile Ser Leu Ser Arg Leu Arg Leu
1               5                   10                  15
Lys Asn Asp Glu Ile Ser Tyr Thr Asn Phe Lys Ser Gln Asp Ser Ser
            20                  25                  30
Thr Phe Glu Leu Ser Ile Arg Thr Val Phe Gln Leu Pro Gln Arg Lys
        35                  40                  45
Lys Asn Thr Leu Ser Arg Arg Leu Gly Tyr Pro Arg Asp Phe Asn Asn
    50                  55                  60
Ala Tyr Gln Leu Gly Pro Ala Ser Lys Ile Val Thr Ser Ser Ser Lys
65                  70                  75                  80
Ser Ser Asn His Tyr Arg Ser Ser Trp Pro Thr Ser Ser Thr Asn Lys
                85                  90                  95
Lys Lys Leu Ala Phe Ala Gly
            100
```

<210> 24290
<211> 224
<212> PRT
<213> A.fumigatus

<400> 24290

```
Val Arg Ile Pro Arg Ala Ile Arg Tyr Asp Ser Asn Val Lys Glu Lys
```

```
1               5                   10                  15
Ala Gly Pro Thr Leu Lys Arg Pro Met Ser Ser Leu Leu Asp Arg Arg
            20                  25                  30
His Asp Leu Leu Ile Gly Arg Thr Leu Leu Asn Pro Ala Arg Gln Ile
        35                  40                  45
Asn Asp Gly Asp Ile Arg Gly Trp His Pro His Ser His Ala Ser Asp
    50                  55                  60
Leu Thr Leu Gln Leu Arg Asp His Leu Thr Asn Arg Leu Arg Gly Thr
65                  70                  75                  80
Ser Thr Ala Gly Tyr Asp Ile Leu Arg Gly Cys Thr Pro Thr Pro Pro
                85                  90                  95
Val Leu Gly Arg Arg Pro Ile Asn Gln Leu Leu Arg Arg Gly Val Arg
            100                 105                 110
Met Asp Ser Ser His Thr Pro Leu His Glu Ala Glu Leu Leu Ile Asp
        115                 120                 125
Asn Leu Asp Gln Gly Ser Asp Ser Val Arg Gly Ala Arg Cys Val Gly
    130                 135                 140
His His Val Arg Arg Ala Val Val Phe Leu Leu Val Asp Pro His His
145                 150                 155                 160
Val His Arg Gly Ile Ser Gly Arg Ser Arg Ala Asp Asp Phe Phe Gly
                165                 170                 175
Ser Ala Ala Lys Met Cys Phe Gly Phe Val Asp Arg Arg Glu Asp Ala
            180                 185                 190
Gly Gly Leu Asp Asp Val Leu Gly Ser Ser Phe Val Pro Gly Asn Ala
        195                 200                 205
Gly Gly Val Phe His Arg Arg Arg Thr Ser Pro Cys Ala Leu Gly Trp
    210                 215                 220
```

<210> 24291
<211> 218
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (193),(210),(211)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24291

```
Val Ala Leu Phe Ser Ile Arg His Val Lys Ser Met Thr Glu Thr Ser
1               5                   10                  15
Glu Val Gly Thr Arg Ile Ala Met Pro Val Thr Leu Pro Cys Ser Ser
            20                  25                  30
Gly Ile Thr Leu Pro Thr Ala Phe Ala Ala Pro Val Leu Leu Gly Met
        35                  40                  45
Ile Phe Ser Ala Gly Ala Arg Pro Pro Leu Gln Ser Leu Asp Glu Gly
    50                  55                  60
Pro Ser Thr Ser Phe Cys Val Ala Val Tyr Ala Trp Ile Ala Val Ile
65                  70                  75                  80
Arg Pro Ser Thr Lys Pro Asn Phe Ser Ser Thr Thr Leu Thr Lys Gly
                85                  90                  95
Ala Ile Ala Phe Val Val His Asp Ala Leu Asp Thr Thr Ser Ala Val
            100                 105                 110
Pro Ser Tyr Phe Ser Ser Leu Thr Pro Ile Thr Tyr Ile Gly Ala Ser
        115                 120                 125
Ala Asp Gly Ala Glu Leu Thr Thr Phe Leu Ala Pro Pro Arg Arg Cys
```

```
    130                 135                 140
Ala Leu Ala Leu Ser Thr Val Val Lys Thr Pro Val Asp Ser Met Met
145                 150                 155                 160
Tyr Ser Ala Pro Val Ser Cys Gln Gly Met Arg Ala Gly Ser Phe Ile
                165                 170                 175
Gly Val Glu Leu His Leu Ala Pro Leu Asp Gly Glu Arg Ala Phe Val
            180                 185                 190
Xaa Gly Asp Phe Val Leu Glu Ala Ala Val Gly Gly Leu Leu Phe Glu
        195                 200                 205
His Xaa Xaa Ser Ala Ala Ala Val Ser Val
    210                 215
```

<210> 24292
<211> 109
<212> PRT
<213> A.fumigatus

<400> 24292

```
Arg Ala Gly Leu Arg Arg Val Arg Pro Met Arg Arg Ser Trp Arg Arg
1               5                   10                  15
Ser Arg Arg Leu Leu Met Gly Leu Leu Arg Val Gly Pro Ala Phe Ser
            20                  25                  30
Phe Thr Phe Glu Ser Tyr Leu Ile Ala Leu Gly Ile Leu Thr Tyr Thr
        35                  40                  45
Glu Asp Asp Ile Val Ser Lys Asp Ile Ile Gly Asn Pro His Ser Ser
    50                  55                  60
Ile Phe Asp Ile Lys Ala Gly Ile Ser Leu Asn Ala Asn Phe Val Lys
65                  70                  75                  80
Leu Val Ser Trp Tyr Asp Asn Glu Trp Gly Tyr Ser Arg Arg Val Leu
                85                  90                  95
Asp Leu Val Ala His Ile Ala Ser Val Asp Ala Arg Glu
            100                 105
```

<210> 24293
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24293

```
Glu Ser Thr His Gly Arg Phe Glu His Glu Ile Ser Xaa Asp Glu Gly
1               5                   10                  15
Ser Leu Thr Ile Gln Gly Arg Lys Val Lys Phe Tyr Ala Asp Glu Arg
            20                  25                  30
Pro Arg Pro His Ser Leu Ala Arg Asn Trp Ser Arg Val His His Arg
        35                  40                  45
Val His Arg Arg Leu His Asp Gly Arg Gln Ser Gln Ser Thr Ser Ser
    50                  55                  60
Arg Arg Ser Gln Lys Ser Arg Gln Leu Gly Ser Val Arg
65                  70                  75
```

<210> 24294

<211> 221
<212> PRT
<213> A.fumigatus

<400> 24294
Ser Ser Thr Pro Met Lys Asp Pro Ala Arg Ile Pro Trp His Glu Thr
1 5 10 15
Gly Ala Glu Tyr Ile Ile Glu Ser Thr Gly Val Phe Thr Thr Val Asp
20 25 30
Lys Ala Lys Ala His Leu Arg Gly Gly Ala Lys Lys Val Val Ser Ser
35 40 45
Ala Pro Ser Ala Asp Ala Pro Met Tyr Val Met Gly Val Asn Glu Glu
50 55 60
Lys Tyr Asp Gly Thr Ala Asp Val Val Ser Asn Ala Ser Cys Thr Thr
65 70 75 80
Asn Ala Ile Ala Pro Leu Val Lys Val Val Asp Glu Lys Phe Gly Phe
85 90 95
Val Glu Gly Arg Met Thr Ala Ile His Ala Tyr Thr Ala Thr Gln Lys
100 105 110
Leu Val Asp Gly Pro Ser Ser Lys Asp Trp Arg Gly Gly Arg Ala Pro
115 120 125
Ala Glu Asn Ile Ile Pro Ser Ser Thr Gly Ala Ala Lys Ala Val Gly
130 135 140
Lys Val Ile Pro Glu Leu Gln Gly Lys Val Thr Gly Met Ala Met Arg
145 150 155 160
Val Pro Thr Ser Asp Val Ser Val Ile Asp Leu Thr Cys Arg Ile Glu
165 170 175
Lys Ser Ala Thr Tyr Glu Glu Ile Val Ala Ala Ile Lys Glu Ala Ala
180 185 190
His Gly Pro Leu Lys Gly Arg Ala Cys Leu Phe Phe His Val Arg Ile
195 200 205
Ile Ser Asn Cys Ser Arg Tyr Pro Asp Leu Tyr Arg Gly
210 215 220

<210> 24295
<211> 221
<212> PRT
<213> A.fumigatus

<400> 24295
Phe Ala Leu Ile Ala Ala Ser Phe Gln Pro Arg Gly Glu Asp Leu Gln
1 5 10 15
Pro Leu Lys Ile Tyr Lys Met Ala Thr Ala Glu Lys Thr Lys Glu Gln
20 25 30
Gln Lys Glu Pro Ile Leu Gln Gln Asp Asp Tyr Ser Asp Asp Tyr Ser
35 40 45
Asp Asp Tyr Ser Asp Glu Asp Tyr Glu Thr Asp Asp Tyr Glu Val Ser
50 55 60
Gly Asp Glu Ala Glu Ala Glu Asp Pro Lys Asn Gln Val Lys His Arg
65 70 75 80
Gln Arg Gln Gln Gln Gln Gln Gln Arg Ser Arg Gln Pro Asp Ala Val
85 90 95
Glu Glu Ala Asp Asp Glu Asp Tyr Ser Asp Glu Asp Asp Tyr Tyr Ser
100 105 110
Asp Glu Tyr Asp Asp Glu Asp Glu Asp Tyr Asp Asn Gln Val Ala Ser
115 120 125

```
Gly Lys Ala Met Gln Pro Tyr Gln Pro Ala Gly Gly Asn Gln Ser Leu
    130                 135                 140
Ser Gln Asn Gly Ser Met Asn Val Ile Pro Gln Glu Lys Gln Gly Ser
145                 150                 155                 160
Ser Leu Asp Asp Glu Glu Gly Met Lys Leu Lys Leu Glu Leu Asn Leu
                165                 170                 175
Glu Ile Glu Val Glu Leu Lys Ala His Ile His Gly Asp Leu Thr Leu
            180                 185                 190
Ala Leu Met Tyr Val Thr Pro Leu Leu Pro Pro Asp Ile Pro Phe Thr
        195                 200                 205
Arg Ser Ile Arg Ile Gly Val Asp Pro Arg Cys Ser Ala
    210                 215                 220
```

<210> 24296
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24296

```
Pro Leu Ala Lys Asn Ile Leu Ser Asp Ile Lys Trp Ser Pro Asn Thr
1               5                   10                  15
Val Pro Pro Gln Tyr Thr Asp His Ala Asp Gln Phe Ile Glu Lys Gly
            20                  25                  30
Pro Ser Leu Arg Leu Lys Ile Leu Gly Val Lys Pro Asp Val Ala Ala
        35                  40                  45
Ile Asn Ala Ile Gly Thr Ile Lys Glu Asp Tyr Leu Gly
    50                  55                  60
```

<210> 24297
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24297

```
Val His His Asn Leu Tyr Ile Val Lys His Arg Gln Ser Lys Ser Tyr
1               5                   10                  15
His Phe His Pro Arg Lys Leu Asn Thr Cys Thr Lys Leu Pro Ile Glu
            20                  25                  30
Asn Asn Ser Asn Ala Pro Pro Cys Pro Pro Gln Pro Gln Ser Pro Pro
        35                  40                  45
Ser Thr Asn Pro Lys Thr Pro Cys Thr Thr Ala Thr Asp Thr Ala Arg
    50                  55                  60
Pro Ser Pro Gln
65
```

<210> 24298
<211> 95
<212> PRT
<213> A.fumigatus

<400> 24298

```
Glu Met Cys Cys Trp Leu Gly Asn Lys Asn Asn His Arg His Leu Ser
1               5                   10                  15
Pro Leu Ile Cys Tyr Phe Leu Leu Tyr Ile Phe Ser Asn Gln Gln Thr
            20                  25                  30
Leu Ile His Leu His Asp His Asp Asn Thr Ala Thr Gly Tyr Lys Cys
```

```
        35                  40                  45
Thr Asp Cys Ala Thr Ala Gln Tyr Ala Ser Gln Asn Ile Gln Ser Gln
    50                  55                  60
Trp Cys Leu Thr Ser Cys Gly Lys Ala Pro Arg His Pro Ser Leu Lys
65                  70                  75                  80
Pro Cys Ser Leu Lys Trp Thr Ser Gln Cys Phe Trp Ala Lys Ser
                85                  90                  95

<210> 24299
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24299
Ala Arg Asp Pro Pro Ala Pro Val Val Lys Thr Phe Asn Ser Thr Leu
1               5                   10                  15
Lys Asn Tyr Ser Val Pro Ser Cys Phe His Gly Pro Thr Cys Val Ala
            20                  25                  30
Phe Ile Tyr Ala Gln Leu Val Gly Cys Gln Asp Gln Ala Val Ser Tyr
        35                  40                  45
Lys Asp Gly Arg Gln Asn Gly Gln Ile Leu Tyr Gly Ser Ser Ile Leu
    50                  55                  60
Phe Ile Cys Tyr Ile Thr Trp
65                  70

<210> 24300
<211> 90
<212> PRT
<213> A.fumigatus

<400> 24300
Ile Thr Lys Asp Met Leu Leu Phe Asn Arg Ala Thr Tyr Leu Tyr Asp
1               5                   10                  15
Arg Glu Asp Ala Ser Pro Leu Tyr Phe Lys Leu Leu Leu Ile Asn Leu
            20                  25                  30
Gln Ala Gln Pro His Met Ala Cys Gly Leu Ile His Ser Thr Pro Ala
        35                  40                  45
Glu Glu Arg Phe Trp Asp Lys Ile Pro Ile Arg Leu Ala Asp Pro Thr
    50                  55                  60
Arg Asn Met Gly Gly Phe Gly Met Gly Leu Thr Gln Leu Thr Trp Val
65                  70                  75                  80
Trp Val Ile Asn Ile Lys Pro Ile Trp Val
                85                  90

<210> 24301
<211> 120
<212> PRT
<213> A.fumigatus

<400> 24301
Leu Leu Phe Thr Asp Arg Pro Ser Val Ser Asn Leu Gly Gly Thr Phe
1               5                   10                  15
Pro Arg Tyr Phe Ile Leu Lys Leu Val Asp Phe Phe Thr Val Ala Thr
            20                  25                  30
Cys Ile Pro Pro Ala Val Pro Pro Ala Ala Glu Lys Leu Lys Gly Asp
        35                  40                  45
```

```
Leu Val Thr Ser Ala Phe Ser Cys Ala Leu Glu Pro Asp Lys Asn Arg
    50                  55                  60
Cys Val Asn Gly Gly Gly Val Cys Glu Thr Ser Arg Asp Gly Tyr Tyr
65                  70                  75                  80
Ile Thr Asn Ile Leu Cys Val Leu Val Gly Thr Val Thr Phe Ile Met
                85                  90                  95
Phe Ile Gln Pro Ala Val Leu Lys Leu Gln Ser Leu Pro Leu Arg Ala
            100                 105                 110
Trp Arg Leu Ser Asn Gly Asp Arg
        115                 120
```

<210> 24302
<211> 169
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(4),(23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24302

```
Arg Xaa Lys Xaa Arg Gln Gly Ser Gly Asn Ser Ile Thr Asp Val Tyr
1               5                   10                  15
Gln Ser Met Trp Asp Ile Xaa Lys Leu Lys Asp Ile Gln Thr Ile Ile
            20                  25                  30
Val Ile His Leu Ile Ala Lys Ile Gly Phe Gln Ala Asn Asp Ala Val
        35                  40                  45
Thr Ser Leu Lys Leu Leu Asp Lys Gly Phe Gly Thr Asp Asn Met Ala
    50                  55                  60
Leu Val Val Leu Ile Asp Phe Pro Phe Glu Ile Gly Leu Gly Tyr Tyr
65                  70                  75                  80
Ala Gly Lys Trp Ser Thr Glu Tyr Thr Pro Met Arg Leu Trp Cys Trp
                85                  90                  95
Ala Phe Ile Gly Arg Leu Ala Ala Ala Val Leu Ala Gln Ala Thr Val
            100                 105                 110
Met Ile Tyr Pro Ser Ser Glu Ala Val Pro Phe Trp Tyr Ile Leu Val
        115                 120                 125
Val Ile Gly Glu His Val Leu Ser Thr Phe Met Asn Thr Val Met Phe
    130                 135                 140
Val Ala Val Ser Ala Phe His Ala Arg Ile Ala Asp Pro Ala Ile Gly
145                 150                 155                 160
Gly Thr Tyr Met Thr Met Leu Ala Thr
                165
```

<210> 24303
<211> 169
<212> PRT
<213> A.fumigatus

<400> 24303

```
Glu Ile Cys Gln Thr Pro Gly His Leu Ile Ile Leu Ala Ile Thr Thr
1               5                   10                  15
Pro Arg Tyr Gly Arg Phe Asp Glu Pro Leu Arg Cys Gln Leu Tyr Ala
            20                  25                  30
Pro Ser Phe Pro Pro Ser Phe Ala Gly Pro Leu Ser Leu His Ala Thr
```

```
        35                  40                  45
Ser Ser Val Arg His Glu Lys Lys Glu Lys Lys Glu Lys Glu Lys Lys
    50                  55                  60
Arg Lys Glu Lys Lys Lys Arg Lys Gln Lys Arg Lys Lys Glu Arg Lys
65                  70                  75                  80
Lys Glu Arg Lys Lys Glu Arg Lys Lys Glu Arg Asp Gln Lys Lys Tyr
                85                  90                  95
Arg Tyr Ser Leu Arg Asn Cys Phe Lys His Leu Ser Pro Ile His Pro
            100                 105                 110
Thr Ile Asn Arg Gln Ile Met Arg Asn Gly Leu Gly Gln Ala Arg Ser
        115                 120                 125
Gln Thr Ser Arg Leu Pro Leu Cys Ser Ser Ala Ser Met Asp Ser Ser
    130                 135                 140
Ser Gly His Arg Arg Ile Leu Gln Leu Val Leu Thr Cys His Phe Ser
145                 150                 155                 160
Leu Ala Val Gln Phe Thr Thr Ala Ser
                165
```

<210> 24304
<211> 530
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (49)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24304

```
Arg Ile Lys Asn Phe His Asn Phe Phe Arg Asn Ser Phe His Tyr Ser
1               5                   10                  15
Arg Leu Phe Ile Glu Gly Gln Arg Leu Val Asp Ser Phe Ser Leu Lys
            20                  25                  30
Asn Ala Thr Phe Leu Ser Gln Ser Ile Tyr Leu Thr Val Asp Val Pro
        35                  40                  45
Xaa Arg Leu Tyr Pro Met Ile Cys Phe Gln Gly Gln Thr Gly Ser Asp
    50                  55                  60
Phe Ser Ser Leu Asp Ile Val Gln Leu Val Ala Ser Ser Thr Cys Ser
65                  70                  75                  80
Val Leu Val Pro Val Leu Ser Pro Thr Leu Asn Thr Ser Val Lys Gly
                85                  90                  95
Ala Tyr His Pro Arg Asp Thr Cys Ser Pro Leu Ala Arg Trp Trp Leu
            100                 105                 110
Tyr Thr Trp Val Ser Pro Leu Val Arg Val Gly Tyr Glu Arg Asn Gly
        115                 120                 125
Ser Ile Asn Lys Glu Asp Leu Tyr Pro Gln Lys Asn Glu Ala Ser Val
    130                 135                 140
Glu Thr Trp Gln Gln Ala Tyr Ala Ser Cys Asp Ser Glu Ser Leu Pro
145                 150                 155                 160
Phe Lys Ser Ile Leu Trp Lys Leu Phe Arg Met Arg Leu Ala Thr Met
                165                 170                 175
Ala Leu Phe Ser Gly Leu Cys Gly Phe Phe Glu Leu Val Gly Thr Ile
            180                 185                 190
Gly Leu His Gln Leu Leu Leu Ser Leu Gln Ser Pro Ser Val Ala Arg
        195                 200                 205
Leu Gln Pro Trp Phe Ser Val Thr Leu Phe Ala Val Ser Pro Ile Ile
```

```
    210                 215                 220
Arg Gly Leu Cys Met Gln Thr Phe Glu Tyr Phe Ala Thr His Thr Ile
225                 230                 235                 240
Gly Asp Trp Lys Ala Leu Ile Val Ala Ala Val Tyr Arg Lys Met Met
                245                 250                 255
Ile Leu Glu Ala Asp Ala Asp Ile Asn Ile Gly Gln Leu Gln Ser Ile
            260                 265                 270
Ile Ser Val Asp Ile Asp Arg Leu Gly Thr Leu Arg Tyr Thr Ala Met
        275                 280                 285
Thr Ala Phe Met Ile Pro Val Glu Phe Val Thr Ala Ser Ile Leu Leu
    290                 295                 300
Tyr Arg Ala Met Gly Trp Tyr Tyr Ile Pro Ser Leu Leu Phe Leu Leu
305                 310                 315                 320
Val Thr Arg Tyr Pro Ile Ser Arg Phe Ile Ile Ser Glu Gln Thr Lys
                325                 330                 335
Ser Gln Ser Ala Ile Val Gln Ala Thr Asp Lys Arg Ile Thr Arg Thr
            340                 345                 350
Ser Glu Ser Ile Arg Ala Leu Leu Met Ile Lys Ile Leu Gly Asn Ala
        355                 360                 365
Gln Thr Phe Ile Arg Arg Ile Leu Asp Glu Arg Lys Gln Glu Leu Asp
    370                 375                 380
Ala Ile Trp Leu Lys Met Arg Val Ile Ile Leu Ser Glu Ser Leu Ser
385                 390                 395                 400
Ser Ser Cys Ser Phe Leu Ala Met Val Phe Ser Leu Cys Leu Phe Ile
                405                 410                 415
Ser Ala Gly Glu Lys Pro Leu Ala Pro Asp Ile Val Phe Thr Leu Val
            420                 425                 430
Ala Val Phe Asn Ile Ile Lys Ser Met Leu Thr Leu Ser Val Leu Gly
        435                 440                 445
Val Gly Gln Tyr Ala Gln Ala Met Val Ser Leu Gln Arg Leu Ser Asp
    450                 455                 460
Phe Met Asp Arg Lys Thr Ser Pro Val Val Thr Asp Lys Thr Gln His
465                 470                 475                 480
Thr Met Gln Ala Gln Arg Leu Asp Gln Arg Val Pro Ser Ser Ser Thr
                485                 490                 495
Ala Gln Val Leu Gly Glu Phe Ser His Thr Gln Val Arg Leu Asp Val
            500                 505                 510
Lys Phe Ala Arg Gly Gly Leu Asn Val Thr Thr Ile Phe Arg Pro Arg
        515                 520                 525
Gly Trp
    530
```

<210> 24305
<211> 197
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24305

```
Cys Arg Trp Pro Asp Leu Leu Phe Ala Arg Met Gln Lys Tyr Arg Pro
1               5                   10                  15
Thr Ser Ser Phe Ala Phe Val Asn Gln Ala Ala Gly Gly Asn Arg Ile
```

```
            20                  25                  30
Leu Ala Asp Gly Xaa Gly Pro Asn Val Leu Ser Arg Leu Asp Arg Asp
        35                  40                  45
Val Leu Ala His Ser Gly Val Arg Tyr Ala Met Ile Phe Glu Gly Val
    50                  55                  60
Asn Asp Ile Gly Val Ala Ser Ala Asp Pro Ala Ala Gln Gln Arg Ile
65                  70                  75                  80
Gly Asp Glu Leu Leu Val Ala Phe Arg Gln Ile Ala Thr Arg Val Gln
                85                  90                  95
Ala Ala Gly Ile Pro Ile Phe Gly Ala Thr Ile Thr Pro Phe Gly Thr
            100                 105                 110
Pro Val Gly Ser Asn Tyr Thr Gln Pro Tyr Ser Ser Asp Glu Arg Glu
        115                 120                 125
Gln Thr Arg Gln Arg Val Asn Asp Phe Ile Arg Ser Ser Gly Val Phe
    130                 135                 140
Asp Ala Val Leu Asp Phe Asp Lys Val Leu Arg Asp Pro Arg Ala Pro
145                 150                 155                 160
Gly Val Leu Ala Glu Glu Phe Asp Ser Gly Asp His Leu His Pro Asn
                165                 170                 175
Val Arg Gly Tyr Gln Ala Leu Ala Asp His Phe Pro Leu Glu Val Phe
            180                 185                 190
Asp Arg Phe His Trp
        195
```

<210> 24306
<211> 472
<212> PRT
<213> A.fumigatus

<400> 24306

```
Trp Glu Glu Asp Gly Met Glu Ser Val Glu Gly Glu Ile Cys Ile Val
1               5                   10                  15
Gly Leu Val Leu Ala Trp Gly Tyr Phe His Asp Pro Glu Arg Thr Asn
            20                  25                  30
Ser Ala Phe Val Glu Trp Asn Gly Val Arg Ile Tyr Lys Thr Gly Asp
        35                  40                  45
Tyr Gly Arg Arg Thr Lys His Gly Leu Gln Phe Cys Gly Arg Arg Asp
    50                  55                  60
Ser Val Val Lys Asn Arg Gly Phe Leu Ile Asn Leu Glu Ala Asp Val
65                  70                  75                  80
Glu Pro Ala Leu Leu Ser Tyr Asp Lys Val Asp Ser Ala Ser Ala Phe
                85                  90                  95
Met Ser Gln Gly Gln Leu Ile Ala Phe Val Thr Pro Thr Ser Ala Lys
            100                 105                 110
Glu Gly Leu Arg Glu Tyr Leu Glu Asn Thr Val Ser Ser Phe Leu Val
        115                 120                 125
Pro Asp Thr Ile Tyr Ser Leu Asp Glu Phe Pro Arg Thr Ser Asn Gly
    130                 135                 140
Lys Val Asp Arg Arg Ser Leu Met Arg Met His Glu Leu Glu Gln Gly
145                 150                 155                 160
Ser Asp Thr Ala Ser Leu Glu Arg Gly Leu Gly Ala Val Glu Ser Val
                165                 170                 175
Arg Arg Gly Leu Ser His Val Leu Arg Leu Pro Glu Ser Gln Ile Leu
            180                 185                 190
Pro Ala Ser Ser Phe Arg His Leu Gly Gly His Ser Leu Ala Ala Val
        195                 200                 205
```

```
Met Leu Val Ser Val Leu Arg Arg Met Gly Phe Gly Ile Ser Val Ala
    210                 215                 220
Glu Val Leu Leu Leu Asp Thr Val Glu Asn Ile Ala Ala Ala Val Val
225                 230                 235                 240
Glu Leu Ser Asp Ile Pro His Ala Leu Ser Ala Gln Glu Asp Leu Ile
                245                 250                 255
Glu Arg Leu Arg His Asp Ile Ser Thr Thr Arg Pro Leu Asp Glu Gly
            260                 265                 270
Val Thr Ile Ala Pro Met Thr Asp Met Gln Thr Arg Leu Leu Gly Ala
        275                 280                 285
Ser Val Ala Thr Pro Gly Leu Ser Phe Ile Lys Thr Ser Phe Thr Leu
    290                 295                 300
Asp His Pro Glu Lys Glu Asp Leu Thr Ser Thr Leu Arg Ala Ala Trp
305                 310                 315                 320
Val Arg Leu His Gln Thr His Glu Ile Leu Arg Thr Ala Phe Val Leu
                325                 330                 335
Thr Ala Ser Asn Gly Ala Gln Ile Ile Ser Gln Glu Pro Asp Phe Ser
            340                 345                 350
Trp Lys Glu Lys Phe Val Thr Glu Ser Glu Trp Glu Ser Val Cys Arg
        355                 360                 365
Arg Glu Glu His Leu Asp Val Ala Asp Phe Pro Asp Phe Asp Ala Glu
    370                 375                 380
Asn Arg Ala Ser Leu Ser Arg Val Val Leu Ile Ile Ala Pro Arg Arg
385                 390                 395                 400
Arg Thr Arg Phe Val Trp Thr Val His His Ser Leu Ile Asp Gly Trp
                405                 410                 415
Ser Met Ala Thr Leu Met Arg Asp Phe Ala Ser Cys Leu Asp Gly Lys
            420                 425                 430
Pro Ile Pro Ala Pro Pro Gln Phe Ala Gln Val Ala Gln Ala Ile Gly
        435                 440                 445
Gln Leu Lys Ala Glu Ser Ser Asp Arg Ala Val Ser Phe Cys Arg Ala
    450                 455                 460
Tyr Leu Asp Val Tyr Thr Thr Ala
465                 470
```

<210> 24307
<211> 387
<212> PRT
<213> A.fumigatus

<400> 24307

```
Cys Gln Tyr Val Leu Arg His Asn Ser Ile Phe Gln Leu Pro Trp Gln
1               5                   10                  15
Arg Ile Ile Asn Ala Thr Glu Ala Val Ala Ala Ser His Glu Thr Phe
            20                  25                  30
Ala Gln Lys Ile Asp Glu Asp Val Glu Arg Pro Leu Arg Glu Tyr Ser
        35                  40                  45
Ser Lys Asn Arg Glu Leu Ala Ser Met Pro Gly Ile Gln Ser Asp Leu
    50                  55                  60
Ala Ala Leu Ala Lys Ser Phe Glu Ala Asn Gln Lys Lys Val Glu Lys
65                  70                  75                  80
Ala Arg Glu Lys Gly Pro Lys Gly Ala Glu Lys Leu Ala Ala Ala Ile
                85                  90                  95
Ser Ala Ala Glu Glu Leu Arg Glu Gln Trp Asp Ser Arg Ala Pro Phe
            100                 105                 110
Val Phe Glu Gln Leu Gln Ala Ala Asp Glu Gly Arg Val Asn His Leu
```

```
        115                 120                 125
Arg Asp Thr Leu Thr Gln Leu Gln Thr His Glu Ser Asp Gln Val Glu
    130                 135                 140
Arg Cys Arg Gln Ala Ala Glu Ser Cys Leu Asn Val Leu Leu Asn Val
145                 150                 155                 160
Glu Thr Ala Asp Glu Ile Lys Thr Phe Ala Ala Lys Val Asn Gly Gly
                165                 170                 175
Arg Pro Val Ala Pro Arg Arg Gln Glu Ser Ile Pro Ser Gly Gly Pro
            180                 185                 190
Gly Ala Pro Leu Ala Pro Pro Pro Arg Ile Gln Asp Asp Ala Ala Ser
        195                 200                 205
Gln Arg Ser Glu Thr Ser Gly Pro Val Arg Thr Pro Pro Gly Lys Ser
    210                 215                 220
Ser Leu His His Ser His Arg Met Phe Ala Asn His Gly Cys Val Val
225                 230                 235                 240
Ala Pro Glu Pro Arg Thr Thr Ala Leu Gly Gly Leu Lys Arg Leu Gly
                245                 250                 255
Thr Val Met Gly Arg Arg Lys Ser Val Val His Thr Pro Gly Gly Trp
            260                 265                 270
Pro Leu Phe Gly Tyr Lys Lys His Arg Asn Pro Phe Ala Ser Phe Lys
        275                 280                 285
Arg Gly Asp Ser Arg Glu Met Gln Ile Pro Glu Ser Pro Thr Gly Thr
    290                 295                 300
Asp Arg Pro Gly Thr Ala Leu Thr Thr Gln Asp Ile His Gly Glu Ser
305                 310                 315                 320
Ala Pro Ile Pro Ser Glu Ile His Glu Arg Gly Leu Pro Gly Ser Leu
                325                 330                 335
Pro Thr Ser Pro Lys Pro Leu Gln Thr Pro Ala Thr Thr Asn Gly Gly
            340                 345                 350
Val Ala Gln Glu Val His Asn Glu Pro Thr Pro Ala Ala Ala Val Thr
        355                 360                 365
Ala Thr Glu Val Cys Val Asp Asp Asn Glu His Leu Asp Trp Thr Asn
    370                 375                 380
Asp Asp Ala
385
```

<210> 24308
<211> 61
<212> PRT
<213> A.fumigatus

```
<400> 24308
Glu Pro Phe Arg Val Asp Ser Arg Leu Cys Val Ile Ile Ser Pro Ile
1               5                   10                  15
Gln Met Phe Ile Val Val His Thr Tyr Phe Gly Arg Ser His Ser Ser
            20                  25                  30
Ser Arg Cys Arg Leu Ile Val Asn Leu Leu Ser Tyr Ser Pro Ile Arg
        35                  40                  45
Gly Arg Trp Cys Leu Gln Arg Phe Trp Ala Arg Arg Gln
    50                  55                  60
```

<210> 24309
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24309
Val Tyr Ala Ala Met His Ser Leu Phe Lys Leu Thr Val Pro Ser Ala
1 5 10 15
Gly Ile Gly Gly Met Ala Ala Ala Leu Ala Leu Gly Gln Arg Gly His
20 25 30
Arg Val Ile Val Leu Glu Ser Ala Pro Lys Val Cys Phe Thr Asn Asn
35 40 45
Leu Lys Thr Gly Gln Lys Phe Gly Val Thr Leu Ile Asn Pro Met Lys
50 55 60
Ser Val Pro Gly Tyr Pro Arg
65 70

<210> 24310
<211> 127
<212> PRT
<213> A.fumigatus

<400> 24310
Trp Arg Thr Gly Glu Thr Val Ala Cys Phe Asp Ile Ile Met Pro Glu
1 5 10 15
Val Ser Glu Val Ala Gly Gly Ser Leu Arg Glu His Arg Leu Pro Asn
20 25 30
Ile Ile Gln Asn Met Arg Asp His Gly Leu Ile Lys Gln Arg Leu Tyr
35 40 45
Pro Ala Ala Gly Ala Gly Glu Thr Pro Thr Thr Gln Thr Ala Pro Glu
50 55 60
Gln Pro Leu Tyr Pro His Leu Gln Pro Tyr Glu Asp Leu Gly His Leu
65 70 75 80
Gln Trp Tyr Ala Asp Leu Arg Arg Trp Gly Ser Ala Pro His Gly Gly
85 90 95
Phe Gly Leu Gly Phe Asp Arg Phe Ile Ser Tyr Leu Ala Gly Val Ser
100 105 110
Ser Val Arg Asp Val Val Ala Phe Thr Pro Ile Leu Trp Pro Gly
115 120 125

<210> 24311
<211> 294
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (289)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24311
Gln His Glu Phe His Phe His Asp Leu Phe Asp His Leu Asp Ser Arg
1 5 10 15
Gly Tyr Val Ile Leu Ile Arg Met Arg Arg Gln Leu Thr Lys Arg Ala
20 25 30
Cys Asp Glu Cys Ile Ser Arg Lys Val Lys Cys Asn Gly Ser Ser Pro
35 40 45
Cys Asp Thr Cys Leu Lys Thr Ser Lys Glu Ala Asp Cys Thr Tyr Leu
50 55 60
Lys Pro Pro Gly Arg Met Gly Pro Lys Ala Lys Arg Tyr Thr Ser Lys
65 70 75 80

```
Ser Arg Ser Ala Cys Asp Gly Ser Ile Gly His Ala His Thr Glu Glu
                85                  90                  95
Ala Ala Ala Arg Thr Gln Ser Val Glu Asn Arg Pro Ala Ile Pro Ala
            100                 105                 110
Asp Val His Ala Asp Thr Glu Arg Asp Glu Ser Leu Ser Ser Cys Ile
        115                 120                 125
Ser Lys Thr Val Leu Val Tyr Ile Val Arg Leu Tyr Gln Thr Phe Ser
    130                 135                 140
Tyr Ser Val Trp Pro Val Val Asp Ala Asp Ala Val Leu Gln Gln Leu
145                 150                 155                 160
Gly Asn Gly Thr Cys Asp Ala Gln Thr Leu Cys Leu Val Leu Ala Leu
                165                 170                 175
Cys Ala Ala Thr Met Ala Gln Leu Gln Leu Ala Pro Met Ala Gly Asp
            180                 185                 190
Asp Gly His Met Val Asp Ser Ser Gln Leu Lys Ser Ala Cys Met Gln
        195                 200                 205
Leu Arg Glu Arg Ser Asp Tyr Arg Glu Asn Leu Asp Val Lys Gly Val
    210                 215                 220
Leu Val Ser Phe Phe Leu His Val Tyr His Ala Lys Ile Asn Gln Arg
225                 230                 235                 240
Lys Ser Ala Met Leu Phe Ile Gln Glu Ala Ile Ala Ser Ala Arg Leu
                245                 250                 255
Leu Gly Leu Asp Thr Asn Glu Arg Asn Ala Val Val Thr Asp Gly Val
            260                 265                 270
Val Ala Asn Arg Glu Ile Val Phe Val Leu Leu Trp Val Ser Glu Arg
        275                 280                 285
Xaa Val Thr Val Asn Leu
    290
```

<210> 24312
<211> 92
<212> PRT
<213> A.fumigatus

<400> 24312

```
Ala Arg Ala Trp Leu Val Leu Leu Thr Val Ser Leu Leu Ser Lys Tyr
1               5                   10                  15
Gly Val Ala Ile Ser Val Val Gly Gln Val Leu Thr Ala Ala Ile Ile
            20                  25                  30
Cys Pro Trp Tyr Leu Arg Arg Pro Ser His Val Gln Asn Cys Arg Gly
        35                  40                  45
Cys His Thr Ser Ile Leu Thr Phe Ser Phe Phe Leu Pro Thr Glu Ser
    50                  55                  60
Leu Ile Leu Glu Ala Phe Tyr Ser Met Glu Ile Ile Arg Arg Lys Ala
65                  70                  75                  80
Pro Pro Cys Leu His Gln Gly Gly Gly Gly Pro Glu
                85                  90
```

<210> 24313
<211> 167
<212> PRT
<213> A.fumigatus

<400> 24313

```
Leu Gln Asp Arg His Val Arg Met Arg Gln Ile Tyr Glu Thr Ile Asp
1               5                   10                  15
```

```
Arg Gln Gly Tyr Gln Trp Ile Val Val Phe Val Ala Gly Val Gly Phe
            20                  25                  30
Phe Leu Asp Gly Tyr Thr Val Ser Gln Pro Gly Tyr Leu Gln Trp Thr
        35                  40                  45
Arg Thr Arg Thr Gln Arg Arg Gln Leu Phe Ala Ser Asn Met Ala Leu
    50                  55                  60
Pro Met Val Ser Tyr Val Tyr Trp Gln Asn Asn Leu Ser Ser Lys Lys
65                  70                  75                  80
Leu Thr Tyr Ile Asn Ile Ala Thr Leu Ala Gly Thr Leu Phe Gly Gln
                85                  90                  95
Val Leu Phe Gly Tyr Leu Ala Asp Arg Asn Gly Arg Lys Lys Met Tyr
            100                 105                 110
Gly Val Glu Leu Met Leu Met Ile Thr Ser Thr Leu Gly Val Val Met
        115                 120                 125
Ser Ser Thr Gly Glu Asn Gly Ser Met Asp Val Phe Ala Trp Leu Val
    130                 135                 140
Trp Trp Arg Leu Val Val Gly Val Gly Val Gly Ala Asp Tyr Pro Leu
145                 150                 155                 160
Ser Ala Val Ile Thr Ser Glu
                165
```

<210> 24314
<211> 114
<212> PRT
<213> A.fumigatus

<400> 24314

```
Ser Arg Gln Arg Trp Val Ser Ser Cys Pro Arg Pro Glu Arg Met Gly
1               5                   10                  15
Ala Trp Met Cys Leu Pro Gly Trp Phe Gly Gly Asp Trp Trp Trp Glu
            20                  25                  30
Leu Gly Ser Gly Arg Ile Ile Pro Ser Val Leu Ser Ser Pro Arg Ser
        35                  40                  45
Lys Ala Met His Ser Ala Tyr Arg Ser Pro Arg Leu Ile Ile Gly Val
    50                  55                  60
Arg Phe Ala Pro Ala Lys His Arg Ala Arg Met Met Ala Ser Val Phe
65                  70                  75                  80
Phe Met Gln Pro Leu Gly Gln Ile Ala Gly Asn Ile Val Thr Leu Ile
                85                  90                  95
Val Val Ala Val Gly Lys Asn Gln Gln His Asp Asp Val Ile Arg Thr
            100                 105                 110
Ser Ser
```

<210> 24315
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24315

```
Lys Cys Asn Val Pro Gln Asn Asp Arg Arg Ile Lys Arg Ala Ser Lys
1               5                   10                  15
Ser Val Asp Cys Pro Pro Pro Pro Ala Asn Lys Lys Ile Gly Asn Gly
            20                  25                  30
Ala Leu Val Gly Ser Arg Asn Ser Ala Thr Glu Tyr Leu Val Phe Met
        35                  40                  45
```

```
Glu Ser Leu Phe Ile Asp His Ile Ile Ser Phe Glu Ala His Gly Tyr
    50                  55                  60

<210> 24316
<211> 160
<212> PRT
<213> A.fumigatus

<400> 24316
Val Lys Gly Leu Phe Phe Leu Gly Met Arg Val Arg His Phe His Ile
1               5                   10                  15
Phe Ser Ser Asn Ser Leu Thr Phe Ile Leu Gly Gly Phe Phe Val Phe
            20                  25                  30
Phe Ile Leu Phe Phe Leu Thr Leu Leu Leu Cys Ile Leu Val Thr Leu
        35                  40                  45
Leu Leu Gly Pro Phe Phe Leu Arg Cys Gly Leu Leu Ile Gly Phe Ser
    50                  55                  60
Cys Ser Leu Ala Leu Phe Val Leu Cys Leu Phe Leu Leu Leu Ile Met
65                  70                  75                  80
Val Ala Ile Pro His Leu Leu Ile His Cys Gly Val Val Glu Val Val
                85                  90                  95
Asp Ala Ala Tyr Phe Leu Ile Asp Ile Phe Phe Phe Phe Arg Ala Ala
            100                 105                 110
Gly Val Phe Ile Phe Leu Phe Val Leu Cys Leu Ala Ile Asn Leu Leu
        115                 120                 125
Ala Leu His Leu Phe Val Ile His Val Asn Cys Leu Cys Arg Ser Leu
    130                 135                 140
His Val Leu Arg Arg Leu Leu Ile Leu Phe Leu Leu Ser Lys Leu Arg
145                 150                 155                 160

<210> 24317
<211> 353
<212> PRT
<213> A.fumigatus

<400> 24317
Glu Gly Val Glu Asp Ile Ser Lys Asp Val Gly Asp Asp Glu Asp Leu
1               5                   10                  15
Ser Glu Leu Ala Gln Gln Glu Gln Asn Glu Lys Pro Ser Glu Asp Met
            20                  25                  30
Glu Ala Ser Ala Glu Ala Val Asn Met Asp His Glu Glu Met Gln Gly
        35                  40                  45
Glu Glu Val Asp Arg Glu Ala Lys Asp Glu Glu Glu Asp Glu Asp Ala
    50                  55                  60
Ser Gly Ser Glu Lys Lys Lys Asp Val Asp Glu Glu Val Gly Ser Val
65                  70                  75                  80
Asn Asp Leu Asp Asp Thr Ala Val Asp Glu Lys Met Trp Asp Gly Asp
                85                  90                  95
His Asp Glu Lys Gln Lys Glu Thr Glu Asn Glu Gln Gly Lys Gly Ala
            100                 105                 110
Ala Glu Ser Asp Glu Gln Thr Ala Ala Gln Glu Glu Arg Thr Gln Glu
        115                 120                 125
Lys Cys Asp Lys Asp Ala Glu Gln Glu Gly Glu Glu Glu Glu Asn Glu
    130                 135                 140
Glu Asp Glu Glu Ala Pro Glu Asp Glu Gly Glu Ala Val Gly Arg Glu
145                 150                 155                 160
```

```
Asp Met Glu Val Thr Asp Pro His Ala Lys Glu Glu Glu Thr Leu Asp
                165                 170                 175
Leu Pro Glu Glu Met Gln Leu Asp Gly Glu Glu Lys Glu Asp Asp Gly
            180                 185                 190
Ala Glu Ser Asp Asp Gly Met Asp Asp Met Ser Asp Phe Gly Pro Ala
        195                 200                 205
Pro Ala Glu Asp Glu Gln Gln Ala Glu Gly Asn Glu Asp Asn Ala Glu
    210                 215                 220
Asn Pro Asp Met Asp Asp Pro Thr Asp Glu Gln Glu Pro Asp Arg Val
225                 230                 235                 240
Asp Glu Glu Ala Met Glu Asp Gln Glu Ala Asn Glu Ala Glu Gly Ala
                245                 250                 255
Asp Glu Ala Asn Ala Ala Glu Glu Glu Glu Leu Glu Ala Arg Gln Glu
            260                 265                 270
Glu Phe Leu Thr Gln His Asp Asp Asn Glu Ala Gly Gly Glu Glu Val
        275                 280                 285
Ala Pro Ser Glu Ala Val Asn Gly Gly Leu Gly Thr Asp Glu Asp Gln
    290                 295                 300
Asn Lys Glu Gln Gly Ala Ala Gly Asn Ala Gln Gln Glu Asp Gly Ser
305                 310                 315                 320
Thr Asp Pro Ala Thr Asp Ala Glu Lys Pro Thr Gly Gly Ala Lys Glu
                325                 330                 335
Gly Glu Asp Ser Gln Arg Lys Lys Asp Ala Gly Gly Ala Asp Asp Val
            340                 345                 350
Ser
```

<210> 24318
<211> 79
<212> PRT
<213> A.fumigatus

<400> 24318

```
Ser Leu Glu Ser Lys Met Thr Leu Pro Ser Asn Val His Val Ser Ser
1               5                   10                  15
His Pro Cys Leu Gln Ala Lys Leu Ser Gln Leu Arg Ser His Ser Thr
            20                  25                  30
Ser Pro Arg Glu Thr Arg Ser Leu Val His Asp Ile Ala Thr Ile Leu
        35                  40                  45
Gly Val Glu Ala Phe Ala Ala Gly Leu Lys Ala Ala Ser Gly Gly Lys
    50                  55                  60
Val Val Ile Leu Pro Asp Gln Glu Leu Gln Tyr Arg Lys Pro Ile
65                  70                  75
```

<210> 24319
<211> 136
<212> PRT
<213> A.fumigatus

<400> 24319

```
Ser Val Ser Glu Lys Met Thr Ser Ser Val Ala Ser Asp Tyr Pro Gln
1               5                   10                  15
Pro Ile Ser Ser Pro Pro Pro Val Tyr Leu Arg Ser Ser Pro Pro Leu
            20                  25                  30
Ser Pro Ser Gln Ser Gln Ser Thr Pro Arg Ser Ile Pro Gln Gln Arg
        35                  40                  45
```

```
Ala Thr Gln His Ile Ala Arg Lys Ala Leu Pro Gly Ser Gln Ser Glu
    50                  55                  60
Asn Gly Tyr Pro Pro Val Pro Pro Val Tyr Ile His Thr Asp Met Asn
65                  70                  75                  80
Leu Ser Gln Ser Ser Asn Met Thr His Glu Asp Thr Arg Asn Gly His
                85                  90                  95
Val Ala Asn Ser Met Pro Thr Thr Ala Leu Ala Asn Met Ser Leu Glu
            100                 105                 110
Asp Gln Ser Gln Asn Pro Gln Asn Ser Asn Gly Pro Phe Pro Pro Arg
        115                 120                 125
Arg Asp Ser Tyr Ala Pro Pro Pro
    130                 135
```

<210> 24320
<211> 118
<212> PRT
<213> A.fumigatus

<400> 24320

```
Ser Asp His Leu Leu Arg Leu Leu His Ile His Trp Thr Lys Ser Arg
1               5                   10                  15
Cys Arg Gln Ile Ser Lys Ala Ser Pro Ser Ser Ile Thr Leu Ala Pro
            20                  25                  30
Asp Gln Phe Asp Ser Leu Leu Asn Arg Arg Gln Tyr Arg Asn Pro Val
        35                  40                  45
Ser Cys Arg Cys Arg His Leu Ile Arg Val Arg Glu Asn Asp Lys Leu
    50                  55                  60
Gly Ser Lys Arg Leu Pro Ser Thr Asn Ile Val Pro Ser Pro Gly Leu
65                  70                  75                  80
Ser Ser Ile Ile Ser Pro Ala Phe Ala Val Ser Glu Ser Ile Asn Pro
                85                  90                  95
Gln Ile Asp Thr Pro Thr Ala Arg His Thr Thr His Cys Thr Glu Gly
            100                 105                 110
Phe Ala Trp Leu Ser Ile
        115
```

<210> 24321
<211> 374
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (370),(371)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24321

```
Arg Arg Arg Ala Lys Ile Glu Ala Leu Gln Asn Arg Arg Leu Glu Gly
1               5                   10                  15
Pro Val Ile Ser Tyr Trp Ser Gly Ile Ala Thr Trp Val Asn Gly Arg
            20                  25                  30
Leu Thr Arg Val Gly Lys Val Asp Ile Thr Pro Lys Pro Glu Lys Glu
        35                  40                  45
Glu Thr Thr Arg Lys Lys Ser Lys Lys Thr Glu Lys Glu Glu Lys Ser
    50                  55                  60
Thr Ala Glu Lys Pro Ala Gln Asn Ala Leu Ala Gly Pro Ala Thr Ser
```

```
65                  70                  75                  80
Gln Thr Ala Ser Leu Gly Ser Ser Thr Pro Gln Glu Thr Pro Ala Gln
                85                  90                  95
Glu Asp Ser Ala Lys Ala Pro Gln Lys Thr Glu Glu Thr Lys Ser Val
            100                 105                 110
Ala Gln Glu Gln Asp Thr Asp Lys Ala Thr Thr Ala Ser Glu Pro Thr
        115                 120                 125
Gln Ala Thr Ser Ala Pro Glu Asn Ser Thr Ile Pro Glu Gly Ser Ala
    130                 135                 140
Ala Ser Ala Glu Ser Ser Asn Pro Ala Pro Pro Val Glu Ser Thr Thr
145                 150                 155                 160
Ile Pro Ser Glu Ala Ser Thr Glu Lys Val Pro Asp Ser Glu Leu Pro
                165                 170                 175
Lys Ile Lys Ala Asp Ser Ser Lys Glu Pro Val Lys Val Glu Ser Lys
            180                 185                 190
Thr Thr Gly Glu Ala Gln Gln Glu Asn Glu Thr Ala Ala Ala Gly Ser
        195                 200                 205
Lys Ser Pro Gly Glu Glu Pro Lys Asp Pro Thr Gln Thr Ala Ala Gln
    210                 215                 220
Val Ser Glu Glu Arg Pro Thr Pro Asn Ala Asp Gln Ser Lys Pro Glu
225                 230                 235                 240
Ala Pro Leu Ser Gly Val His Pro Asp Gly Ala Ser Arg Thr Thr Asp
                245                 250                 255
Ala Glu Ala Pro Thr Asn Glu Lys Pro Ser Ser Glu Ser Lys Val Ala
            260                 265                 270
Pro Pro Ala Thr Ser Pro Pro Ala Thr Gln Ile Pro Ile Ala Glu Pro
        275                 280                 285
Thr Gln Ile Gly Gln Gln Glu Glu Pro Lys Val Ser Ala Ser Thr Glu
    290                 295                 300
Gln Lys Gln Val Ala Pro Glu Ile His Ala Asp Gln Pro Asp Phe Ser
305                 310                 315                 320
Ser Asp Gly Ala Pro Gln Pro Gln Ile Pro Ala Pro Pro Pro Val Val
                325                 330                 335
Glu Gln Thr Gly Arg Cys Leu Thr Ile Leu Glu Asn Phe Asp Glu Glu
            340                 345                 350
Thr Ala Gln Ser Arg Glu Cys Leu His Gln Gly Pro Glu Gly Pro Arg
        355                 360                 365
Met Xaa Xaa Glu Arg Ala
    370
```

<210> 24322
<211> 141
<212> PRT
<213> A.fumigatus

<400> 24322

```
Tyr Tyr Tyr Arg Leu Leu Gln Glu Arg Asn Pro Thr Leu Ile Met Ser
1               5                   10                  15
Arg Pro Phe Pro Tyr Thr Tyr Ile Ser Cys Pro Cys Ala Asp Thr Pro
            20                  25                  30
Val Pro Asp Arg Ser Arg Lys Arg Arg Ser Arg Glu Ser Pro Ala Lys
        35                  40                  45
Lys Pro Glu Gln Gly Asp Arg Ser Thr Ala Ala Asp Thr Glu Glu Glu
    50                  55                  60
Glu Glu Gln Thr Phe Asp Pro Arg Ala Pro Arg Ser Asn Phe Ser Leu
65                  70                  75                  80
```

```
Tyr Pro Pro Glu Gln Leu Leu Tyr Cys Glu Asp Cys His Gln Ile Lys
                85                  90                  95
Cys Pro Arg Cys Ile Thr Glu Glu Ile Val Cys Trp Tyr Cys Pro Asn
            100                 105                 110
Cys Leu Phe Glu Thr Pro Ser Ser Met Val Arg Ser Glu Gly Asn Arg
        115                 120                 125
Trp Val Pro Leu Gly Ser Val Ser Gln Val Val Pro Arg
    130                 135                 140
```

<210> 24323
<211> 231
<212> PRT
<213> A.fumigatus

<400> 24323

```
His Pro Arg Gly Ser Phe Gln Pro Val Val Lys Thr Lys Gln Lys Ser
1               5                   10                  15
Ile Lys Asp Gln Ser Val Glu Ile Ala Ala Ser Ala Gly Ile Ser Thr
            20                  25                  30
Glu Ser Leu Ala Ser Val Ile Ser Leu Phe Ser Ser Thr Leu Cys Cys
        35                  40                  45
Ser Ser Pro Ser Asp Cys Cys Ser Cys Ser Arg Ala Ala Arg Ser Arg
    50                  55                  60
Ser Ser Ser Ser Ser Cys Ser Thr Phe Ser Ser Ser Ser Ser Gln Leu
65                  70                  75                  80
Ser Ala Thr Ser Ala Ala Gly Gly Val Glu Arg Phe Phe Phe Ala Ala
                85                  90                  95
Pro Thr Pro Asp Arg Arg Thr Ser Phe Ser Phe Leu Gly Arg Pro Gln
            100                 105                 110
Leu Pro Leu Ser Leu Pro Ala Arg Ala Ala Asn Phe Glu Pro Asp His
        115                 120                 125
Gly Leu Gly Leu Ala Thr Gly Val Val Leu Arg Val Glu Leu Thr Pro
    130                 135                 140
Leu Leu Arg Arg Asp Ala Ala Thr Trp Ala Gln Pro Leu Ser Pro Ala
145                 150                 155                 160
Val Ser Ala Asp Cys Cys Ala Leu Ala Ala Ser Leu Ser Ala Leu Ala
                165                 170                 175
Ser Ala Ala Ala Arg Arg Cys Ala Ser Arg Ser Leu Arg Arg Trp Arg
            180                 185                 190
Ser Arg Ser Leu Thr His Ser Pro Thr Leu Leu Pro Pro Met Pro Ile
        195                 200                 205
Glu Phe Ser Gly Pro Thr Pro Arg Ser Gly Gly Val Gln Val Val Gly
    210                 215                 220
Phe Arg Thr Lys Thr Trp Arg
225                 230
```

<210> 24324
<211> 299
<212> PRT
<213> A.fumigatus

<400> 24324

```
Arg Pro Thr Thr Thr Ala Ala Ser Asn Leu Ser Pro Ser Thr Leu Pro
1               5                   10                  15
Tyr Ser Thr Glu Thr Leu Asp Leu Tyr Val Gln Leu Ser Ser Thr Ser
            20                  25                  30
```

```
Pro Leu Ser Thr Leu Gln Thr Tyr Glu Ser Thr Leu His Ser Leu Ala
        35                  40                  45
Ile Ser Thr Thr Gln Arg Ser Val Arg Phe Gln Pro Ala Lys Ser Pro
    50                  55                  60
Leu Arg Ala Phe Ile His Ser Leu Ala Ala Asp Trp Gly Phe Ala Ser
65                  70                  75                  80
Glu Ser Phe Asp Pro Glu Pro His Arg His Val Phe Val Leu Lys Pro
                85                  90                  95
Thr Thr Trp Thr Pro Pro Leu Leu Gly Val Gly Pro Glu Asn Ser Ile
            100                 105                 110
Gly Ile Gly Gly Lys Ser Val Gly Glu Cys Val Lys Leu Arg Glu Arg
        115                 120                 125
Gln Arg Leu Lys Glu Arg Glu Ala Gln Arg Leu Ala Ala Ala Glu Ala
    130                 135                 140
Lys Ala Leu Lys Glu Ala Ala Lys Ala Gln Gln Ser Ala Asp Thr Ala
145                 150                 155                 160
Gly Asp Ser Gly Trp Ala Gln Val Ala Ala Ser Arg Arg Ser Asn Gly
                165                 170                 175
Val Ser Ser Thr Arg Ser Thr Thr Pro Val Ala Ser Pro Ser Pro Trp
            180                 185                 190
Ser Gly Ser Lys Phe Ala Ala Leu Ala Gly Ser Asp Ser Gly Ser Trp
        195                 200                 205
Gly Leu Pro Arg Lys Glu Lys Leu Val Leu Arg Ser Gly Val Gly Ala
    210                 215                 220
Ala Lys Lys Asn Leu Ser Thr Pro Pro Ala Ala Glu Val Ala Asp Asn
225                 230                 235                 240
Trp Glu Glu Glu Glu Glu Lys Val Glu Gln Glu Glu Glu Glu Glu Arg
                245                 250                 255
Glu Arg Ala Ala Arg Glu His Glu Gln Gln Ser Glu Gly Glu Glu Gln
            260                 265                 270
His Arg Val Glu Glu Asn Asn Glu Met Thr Asp Ala Arg Asp Ser Val
        275                 280                 285
Glu Met Pro Ala Glu Ala Ala Ile Ser Thr Asp
    290                 295
```

<210> 24325
<211> 361
<212> PRT
<213> A.fumigatus

<400> 24325

```
Lys Tyr Pro Phe Pro Gln Ile Phe Ser Gly Ser Met Gly Pro Gly Gln
1               5                   10                  15
Leu Arg Met Asn Trp Asn Phe Gly Lys Ser Ser Lys Asn Arg Ala Val
            20                  25                  30
Phe Leu Lys Arg Phe Phe His Ala Ser Ser Phe Pro Ser Leu Cys Arg
        35                  40                  45
His Met Val Lys Lys Val Pro Pro Lys Phe Thr Thr Cys Trp Phe Ile
    50                  55                  60
Gly Ala Ser Glu Val Glu Val Pro Ser Gln Met Thr Arg Ser Asn Ser
65                  70                  75                  80
Ser Phe Ser Leu Ile Gly Leu Asp Ala Ser Ile Ala Asn Ala Ser Arg
                85                  90                  95
Arg Ile Leu Met Ala Glu Val Pro Thr Leu Ala Ile Glu Tyr Val Phe
            100                 105                 110
Val His Asn Asn Thr Ser Val Ile Gln Asp Glu Val Leu Ala Ser Arg
```

```
        115                 120                 125
Leu Gly Leu Ile Pro Leu Lys Gly Ser Val Glu Gly Leu Asn Trp Met
    130                 135                 140
Arg Trp Phe Lys Lys Pro Thr Glu Asp Asp Pro Glu Ser Gly Ser Thr
145                 150                 155                 160
Pro Ala Asp Tyr Asn Thr Ile Val Leu Arg Leu Asp Val Glu Cys Thr
                165                 170                 175
Glu Asn Pro Asn Ala Ala Pro Gly Glu Asp Asp Pro Arg Lys Leu Tyr
            180                 185                 190
Lys Asn Ala His Val Tyr Ala Lys Asp Ile Thr Phe His Pro Val Gly
        195                 200                 205
Arg Gln Glu Gln Phe Phe Thr Gly Asp Gly Ala Val Gln Pro Val Asn
    210                 215                 220
Pro Asp Ile Leu Ile Ala Lys Leu Arg Pro Gly Gln Lys Ile Asp Met
225                 230                 235                 240
Glu Leu His Cys Ile Lys Gly Ile Gly Ala Asp His Ala Lys Phe Ser
                245                 250                 255
Pro Val Ala Thr Ala Thr Tyr Arg Leu Met Pro Asp Ile Lys Ile Leu
            260                 265                 270
Arg Pro Ile Ile Gly Glu Asp Ala Lys Lys Phe Ala Lys Cys Phe Pro
        275                 280                 285
Lys Gly Val Ile Glu Leu Glu Pro Val Thr Ser Arg Glu Ala Ala Gln
    290                 295                 300
Lys Gly Ser Glu Tyr Glu Gly Arg Ala Gly Glu Met Lys Ala Val Val
305                 310                 315                 320
Arg Asp Pro Phe Lys Asp Thr Val Ser Arg Glu Cys Leu Arg His Glu
                325                 330                 335
Glu Phe Gln Gly Lys Val Lys Leu Gly Arg Ile Arg Asp His Phe Met
            340                 345                 350
Phe Asn Val Glu Ser Thr Val Ser Val
        355                 360
```

<210> 24326
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(43)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24326

```
Xaa Thr Ile Pro Trp Thr Thr Thr Arg Gly Phe Trp Pro Val Asp Phe
1               5                   10                  15
Ala Ser Gly Ile Val Asp Gly Lys Thr Ile Ala Arg Ser Gly Asn Lys
            20                  25                  30
Ala Ile Ala Asp Thr Gly Thr Pro Leu Ala Xaa Val Asp Asp Glu Thr
        35                  40                  45
Cys Gln Ala Ile Tyr Asp Ala Ile Pro Gly Ala His Tyr Asp Asp Glu
    50                  55                  60
Ser Gln Gly Tyr Ile Phe Pro Ser Thr Thr Thr Ala Asp Lys Leu Pro
65                  70                  75                  80
Val Val Ser Leu Ala Val Gly Asp Lys Gln Phe Val Val Gln Arg Glu
                85                  90                  95
Asp Leu Gly Phe Ala Glu Ala Lys Ser Gly Tyr Val Tyr Gly Gly Ile
```

```
            100                 105                 110
Gln Ser Arg Gly Ser Met Ala Met Asp Ile Leu Gly Ser Thr Phe Leu
        115                 120                 125
Lys Gly Ile Tyr Pro Val Arg Leu Ser Asp His Cys
    130                 135                 140
```

<210> 24327
<211> 203
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (169),(191)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24327

```
Lys Ser Glu Thr Phe Cys Phe Cys Leu Ser Arg Leu Gln Pro Thr Asp
1               5                   10                  15
Ile Asn Leu Gly Thr Val Pro Trp Ser Ala Ser Ser Tyr His His Gln
            20                  25                  30
Pro Pro Leu Leu Asn Ile Ser Ser Phe Ser Leu Leu Ala Asn Tyr Cys
        35                  40                  45
Tyr Lys Ser Leu Ala Thr Ile Val Thr Arg Ser Thr Met Ala Arg Gln
    50                  55                  60
Tyr Pro Ala Leu Leu His Gln Arg Met Leu Thr His Ile Gln His Leu
65                  70                  75                  80
Pro Leu Glu Leu Arg Glu Lys Leu Ala Leu Leu Pro Glu Ser Pro Ser
                85                  90                  95
Arg Glu Glu Ile Tyr Val Leu Trp Thr His Leu Leu Gln Arg Tyr Phe
            100                 105                 110
Pro Phe Arg Leu His Gly Ser Leu Pro Asn Leu Val Asp Leu Pro Asp
        115                 120                 125
Glu Thr Ala Val Lys Tyr Ala Leu Gly Tyr His Gln Glu Ser Glu Ser
    130                 135                 140
Ser His Ile Ala Leu Ala Val Gly Arg Asp Tyr Gly Pro Phe Asp Arg
145                 150                 155                 160
Leu Ser Phe Leu His Val Ser Cys Xaa Ala Glu Lys Lys Glu Lys Trp
                165                 170                 175
His Leu Glu Glu Met Gln Asp Lys Trp Lys Asp Glu Met Met Xaa Phe
            180                 185                 190
Ser His Cys Glu Asn Ala Pro Gly Ala Arg Glu
        195                 200
```

<210> 24328
<211> 220
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24328

```
Gly Ile Phe Phe Leu Leu Glu Lys Gly Val Asp Ala Trp His Thr Phe
```

```
1               5                   10                  15
Ala Ile Pro Arg Leu Gly Ile Pro Ser Ile Arg Thr Pro Thr Gly Xaa
            20                  25                  30
Asn Gly Ala Arg Gly Thr Arg Tyr Leu Thr Gly Val Pro Ser Ala Cys
        35                  40                  45
Leu Pro Cys Gly Thr Ala Leu Gly Ala Thr Phe Asp Arg Asp Leu Ile
    50                  55                  60
Phe Ser Leu Gly Gln Leu Leu Ala Ala Glu Cys Arg Ala Lys Gly Ala
65                  70                  75                  80
His Val Leu Leu Gly Pro Thr Ile Asn Ile Gln Arg Gly Pro Leu Gly
                85                  90                  95
Gly Arg Gly Phe Glu Ser Phe Ser Glu Asp Pro Val Leu Ser Gly Leu
            100                 105                 110
Ala Ala Ala Ser Tyr Cys Ser Gly Val Gln Asp Gly Gly Val Val Pro
        115                 120                 125
Thr Leu Lys His Leu Val Cys Asn Asp Gln Glu His Glu Arg Val Ala
    130                 135                 140
Val Ser Ala Leu Val Thr Pro Arg Ala Leu Arg Glu Ile Tyr Leu Leu
145                 150                 155                 160
Pro Phe Gln Leu Ala Ile Gln Gly Ala Arg Pro Gly Ala Val Met Thr
                165                 170                 175
Ser Tyr Asn Lys Val Asn Gly Leu His Ala Ser Glu Asn Pro Gly Leu
            180                 185                 190
Ile Arg Asp Ile Leu Arg Gly Glu Trp Gly Tyr Glu Gly Ala Val Ile
        195                 200                 205
Ser Asp Trp Phe Val Arg Leu Phe Thr Met Met Leu
    210                 215                 220

<210> 24329
<211> 115
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (114)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24329
Gln Lys Pro Gln Met Leu Thr Thr Ile Ile Leu Tyr Gly Arg Pro Thr
1               5                   10                  15
Arg Arg Thr Arg Lys Leu Phe Asn Thr Ser Gly Phe Val Gly Asn Ala
            20                  25                  30
Ala Ser Tyr Leu Ala Arg Met Leu Thr Met Gly Lys Glu Met Leu Asn
        35                  40                  45
His Arg Gly Tyr Ile Tyr Thr Ala Lys His Glu Gly Cys Ile Leu Ser
    50                  55                  60
Ser Asp Glu Thr Phe Tyr Pro Pro Thr Gln Val Gln Asn Ser Leu Glu
65                  70                  75                  80
Pro Ser Thr Gly Arg Lys Asn Met Val Phe Gly Pro Arg Asn Arg Met
                85                  90                  95
Leu Ser Gly Gly Thr Ile Ala His Tyr Ala Arg Phe Gln Leu Lys Arg
            100                 105                 110
Glu Xaa Lys
        115
```

<210> 24330
<211> 133
<212> PRT
<213> A.fumigatus

<400> 24330
Gln Gly Asn Gln Gly Leu Ile Gly Ser Leu Arg Phe Ser Leu Trp Ile
1 5 10 15
Pro Val Ser Gln Tyr Ser Tyr Met Glu Leu Ser Thr Ala Ala Phe Glu
20 25 30
His Val His Gly Leu Ser Leu Asp Phe His Leu Gly Lys Lys Thr Gly
35 40 45
Glu Val Leu Ser Ala Leu Ser Lys Gly Ser Ser Ile Asn Thr Phe Leu
50 55 60
Glu Gln Val Thr Phe Gln Val Val Pro Met Leu Val Asp Leu Cys Val
65 70 75 80
Ala Ile Gly Tyr Leu Leu Ile Ala Leu Asp Ala Tyr Tyr Ala Leu Val
85 90 95
Val Thr Ile Val Thr Phe Cys Tyr Leu Tyr Val Thr Val Arg Met Ala
100 105 110
Gln Trp Arg Ala Glu Ile Arg Arg Gln Met Val Asn Ala Ser Arg Gln
115 120 125
Glu Asp Ala Val Lys
130

<210> 24331
<211> 305
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (286)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24331
Arg Leu Thr Trp Trp Ile Arg Asn Asp Ser Met Val Ser Tyr Glu Thr
1 5 10 15
Val Lys Tyr Phe Asn Ala Glu Glu Tyr Glu Phe Asn Arg Tyr Arg Gly
20 25 30
Ala Val Ser Asp Tyr Gln Lys Ala Glu Tyr His Val Leu Phe Ser Leu
35 40 45
Thr Leu Met Asn Thr Ser Gln Asn Thr Val Phe Met Leu Gly Leu Leu
50 55 60
Ile Ala Cys Phe Ile Ala Ala Tyr Gln Val Ser Leu Gly Gln Arg Asp
65 70 75 80
Val Gly Gln Phe Val Ser Leu Leu Thr Tyr Met Ala Gln Leu Gln Gly
85 90 95
Pro Leu Asn Phe Phe Gly Thr Phe Tyr Arg Ser Ile Gln Ser Ala Leu
100 105 110
Ile Asn Ser Glu Arg Met Leu Glu Leu Phe Arg Glu Gln Pro Thr Val
115 120 125
Val Asp Lys Pro Gly Ala Met Pro Leu Ala Val Cys Lys Gly Asp Ile
130 135 140
Lys Phe Glu Asp Val Glu Phe Ala Tyr Asp Thr Arg Lys Pro Ala Leu
145 150 155 160

```
Asn Gly Leu Thr Phe His Cys Glu Pro Gly Thr Ser Thr Ala Leu Val
                165                 170                 175
Gly Glu Ser Gly Gly Gly Lys Ser Thr Val Phe Arg Leu Leu Phe Arg
            180                 185                 190
Phe Tyr Asn Ala Arg Asn Gly His Ile Arg Ile Asp Gly His Asp Val
        195                 200                 205
Glu Asp Ile Thr Ile Asp Ser Leu Arg Arg His Ile Gly Val Val Pro
    210                 215                 220
Gln Asp Thr Val Leu Phe Asn Glu Thr Leu Met Tyr Asn Leu Lys Tyr
225                 230                 235                 240
Ala Asn Gln Asn Ala Thr Asp Glu Glu Val Tyr Glu Ala Cys Arg Ala
                245                 250                 255
Ala Ser Ile His Asp Lys Ile Met Ser Phe Pro Asp Gly Tyr Asn Thr
            260                 265                 270
Lys Val Gly Glu Arg Gly Leu Arg Leu Ser Gly Arg Glu Xaa Gln Arg
        275                 280                 285
Val Ala Ile Ala Arg Asn Ile Leu Lys Asp Pro Arg Asn His Pro Leu
    290                 295                 300
Gly
305
```

<210> 24332
<211> 150
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (106)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24332
Thr Arg Ala Val Asn Tyr Leu Thr Met Leu Leu Ile Trp Ser Thr Ser
1               5                   10                  15
Thr Ala Ala Gln Leu Ala Glu Tyr Glu Lys Glu Val Arg Arg Leu Arg
            20                  25                  30
Ser Gln Thr Asn Thr His Thr Pro Arg Thr Gly Ser Ala Ser Ser Thr
        35                  40                  45
Leu Ser Thr Pro Ser Asn Glu Ser Glu His Ser Arg Ser Ser Pro Pro
    50                  55                  60
Gln Ala Gln Gln Gln Ser Arg Leu Ser Thr Leu Thr Ser Leu Leu Pro
65                  70                  75                  80
Tyr Arg Arg Pro Ser Thr Ala Ser Pro Thr Gln Thr Met Ala Gln Pro
                85                  90                  95
Ala Gln Pro Val Pro Ser Pro Asp Gln Xaa Thr Thr Glu Leu Gln Thr
            100                 105                 110
Ala Leu Glu Arg Glu Gln Ser Leu Arg Lys Ala Ala Glu Lys Gln Leu
        115                 120                 125
Thr His Ala Ser Ser Glu Leu Glu Glu Leu Thr Pro Gln Leu Phe Ser
    130                 135                 140
Pro Ala Asn Glu Met Val
145                 150
```

<210> 24333
<211> 81
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (41),(50),(51),(52),(53),(54),(55),(80)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24333
Glu Ile His Ile Ile Val Asn Tyr Gly Ile Ser Pro Ser Leu Val Ser
1 5 10 15
Gly Val Asp Val Ser Glu Thr Pro Phe Cys Ala Glu Lys Leu Lys Ala
20 25 30
Pro Ala Phe Phe Phe Val Trp Gly Xaa Lys Thr Ile Ile Arg Gly Glu
35 40 45
Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Glu Val Lys Gly His Cys Phe Arg
50 55 60
Asp Arg Val Pro Lys Asn Leu Pro Arg Arg Tyr Trp Asn Phe Asp Xaa
65 70 75 80
Ile

<210> 24334
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(33),(34),(35),(36),(37),(38),(47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24334
Lys Gly Val Leu Asn Ser Asn Xaa Val Lys Ile Pro Ile Ser Ser Gly
1 5 10 15
Glu Val Leu Trp Tyr Thr Val Pro Glu Ala Met Thr Phe Asn Leu Pro
20 25 30
Xaa Xaa Xaa Xaa Xaa Xaa Lys Leu Ser Pro Asp Asn Arg Leu Xaa Pro
35 40 45
Pro Asn Lys Glu Lys Ser Arg Ser Phe Lys Leu Phe Ser Thr Glu Gly
50 55 60
Gly Phe
65

<210> 24335
<211> 101
<212> PRT
<213> A.fumigatus

<400> 24335
Phe Ala Glu Ser Ile Ala Ile Ile Ala Val Tyr Asn Leu Thr Val Val
1 5 10 15
Asp His Gly Ile Thr Ala Leu Arg Pro Thr Ser Ser Asn Val Glu Asp
20 25 30
Thr Ser Leu Lys Glu Glu Glu Lys Lys Asn Pro Arg Ser Arg Gly Tyr
35 40 45
Val Ile Ser Ile Leu Ser Val Pro Gly Pro Thr Gln Val Ser Pro Gly

```
    50                  55                  60
Ile Val Asp Gly Ser Pro Tyr Tyr Ala Phe Gly Gly Phe Asp Tyr Val
65                  70                  75                  80
Glu Phe Leu Pro Thr Asn Gly Val Ser His Tyr Ser Val Phe Asn Lys
                85                  90                  95
Ala Glu Lys Thr Asp
            100
```

<210> 24336
<211> 110
<212> PRT
<213> A.fumigatus

<400> 24336

```
Thr Asn Lys Gly Asp Ala Ala Gly Ile Arg Arg Pro Glu Ala Gln Arg
1               5                   10                  15
Thr Gly Thr Ala Ala Asn Pro Thr Met Tyr Pro Thr Ser Pro Met Thr
            20                  25                  30
Met Asp Lys Pro Leu Lys Ala Ile Leu His Cys Arg Gly Arg Gly Met
        35                  40                  45
Pro Trp Phe Glu Glu Asn Asn Thr Asp Gly Cys Trp Glu Trp Pro Ile
    50                  55                  60
Cys His Arg Phe Arg Cys Ala Ile Cys Pro Ser Ser Asp Asp Gly Thr
65                  70                  75                  80
Asn Pro Asn Cys Asn Gly Ser Ser Thr Cys Ile Val Arg Tyr Pro Lys
                85                  90                  95
Ala Leu Gln His Ser Asn Glu Ser Cys Pro Ile Leu Pro Glu
            100                 105                 110
```

<210> 24337
<211> 280
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(84)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24337

```
Asp Trp Ala Arg Thr Lys Xaa Tyr Ser Gly Gly Gln Pro Ser Met Val
1               5                   10                  15
Gly Pro Trp Glu Ser Arg Glu Arg Phe Pro Asp Leu Ala Arg Ala Ser
            20                  25                  30
His Arg Ala Val Ala Thr Arg Ala Thr Asn Trp Thr Gly Val Pro Ala
        35                  40                  45
Pro Ser Pro Ile Ser His Val Glu Arg Thr Phe Val Ser Arg Pro Pro
    50                  55                  60
Asn Gly Thr Ile Pro Gln Phe Gly Glu Phe Pro Ala Pro Gln Leu Arg
65                  70                  75                  80
Arg Ser Thr Xaa Trp Pro Arg Ala Asn Thr Gly Pro Leu Pro Gly Val
                85                  90                  95
Gly Trp Arg Thr Met Arg Thr Leu Ala Ser Ser Thr Ser Cys Ala Ser
            100                 105                 110
Pro Ala Ser Arg Asp Ser Pro Gly Gly Thr Ile Ala Pro Thr Arg Asn
        115                 120                 125
```

```
Gly Ala Tyr Thr Glu Pro Tyr Phe Ala Leu Phe Pro Ala Met Pro Met
    130                 135                 140
Asp Gln Gln Tyr Asp Gly Tyr Lys Tyr Leu Pro Asp Ile Asp Gly Asn
145                 150                 155                 160
Ser Phe Ser Gly Arg Tyr Arg Gly Phe Leu Leu Ser Thr Ser Leu Pro
                165                 170                 175
Ile Lys Ala Thr Ile Tyr Asp Glu Trp His Asp Ser Arg Leu Ile Pro
            180                 185                 190
Trp Ala His Phe Val Pro Met Asp Ser Thr Phe Pro Asp Val Tyr Gly
        195                 200                 205
Leu Met Glu Tyr Phe Ile Gly Tyr Gly Gly Arg Gly His Asp Glu Ala
    210                 215                 220
Ala Arg Thr Ile Ala Leu Asp Gly Lys Ala Trp Ala Glu Lys Val Leu
225                 230                 235                 240
Arg Arg Glu Asp Met Gln Ile Tyr Met Tyr Arg Leu Leu Leu Glu Tyr
                245                 250                 255
Ala Arg Ile Cys Asp Asp Arg Arg Asp Thr Leu Gly Tyr Thr Ala Asp
            260                 265                 270
Ile Leu Arg Val Gly Gln Arg Thr
        275                 280
```

<210> 24338
<211> 202
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24338

```
Gly Gly Val Pro Xaa Gly Arg Gly Pro Thr Pro Gly Arg Phe Pro Glu
1               5                   10                  15
Leu Val Gly Gly Pro Cys Gly Arg Trp Leu His Pro Leu Arg Val Leu
            20                  25                  30
Pro Leu Arg Pro Gly Thr Ala Leu Gly Val Arg Ser His Arg Pro Ala
        35                  40                  45
Met Gly Pro Thr Arg Asn His Thr Ser Pro Cys Ser Pro Pro Cys Pro
    50                  55                  60
Trp Thr Ser Ser Thr Thr Ala Thr Asn Thr Cys Arg Thr Ser Thr Ala
65                  70                  75                  80
Thr Pro Leu Ala Ala Gly Thr Ala Ala Ser Tyr Cys Arg Arg Leu Cys
                85                  90                  95
Pro Ser Lys Pro Pro Ser Thr Thr Asn Gly Met Thr Pro Val Ser Ser
            100                 105                 110
Pro Gly Pro Ile Ser Cys Pro Trp Thr Arg Arg Ser Pro Thr Tyr Thr
        115                 120                 125
Ala Ser Trp Ser Thr Leu Ser Gly Thr Ala Gly Gly Ala Met Thr Arg
    130                 135                 140
Pro Arg Ala Arg Leu Pro Trp Thr Ala Arg Arg Gly Arg Arg Arg Cys
145                 150                 155                 160
Phe Ala Gly Lys Thr Cys Arg Ser Thr Cys Ile Gly Cys Cys Trp Ser
                165                 170                 175
Met Pro Gly Ser Val Met Ile Ala Gly Ile Leu Trp Gly Ile Pro Arg
            180                 185                 190
```

Ile Ser Tyr Glu Ser Gly Asn Gly His Glu
195 200

<210> 24339
<211> 439
<212> PRT
<213> A.fumigatus

<400> 24339
Arg Leu Gly Gly Lys His Asn Val Arg Glu Leu Gly Arg Ala Phe Gly
1 5 10 15
Ala Val Trp Gly Cys Asn Ile Leu Cys Glu Glu Pro Ala Gly Pro Cys
20 25 30
Arg Leu Gly Asp Gly Leu Ala Val Tyr Lys Ala Leu Ser Pro Gly Pro
35 40 45
Arg Ala Ser Gly Ala Lys Gly Met Ala Ser Ser Ser Ser Pro Ser Ser
50 55 60
Ser Gly Gly Ala Lys Ile Phe Ser Ile Gly His Val Leu Arg Tyr Ser
65 70 75 80
Pro His Asn Ile Ile Val Arg Lys Leu Leu Leu Leu Asp Arg Val Ile
85 90 95
Gly Asp Ile Val Ser Leu Glu His Thr Glu Pro Val Gly Trp Trp His
100 105 110
Phe Ala His Ser Tyr Val Arg Gly Asn Trp Arg Arg Ala Thr Ala Leu
115 120 125
Gly Asp Gly Tyr Leu Leu Thr Lys Ser Cys His Asp Ile Asp Phe Ile
130 135 140
Met Trp Leu Leu Ser Ser Pro Pro Glu Tyr Val Gln Gly Lys Gly Glu
145 150 155 160
Gly Ser Thr Gln Pro Gln Pro Gln Pro His His His His His Pro Arg
165 170 175
Ser Ile Thr Ser Thr Gly Thr Leu Thr Gln Phe Arg Arg Ala Arg Lys
180 185 190
Pro Pro Ala Ala Gly Pro Ala Thr Asn Cys Leu Ser Cys Pro Ala Glu
195 200 205
Arg Glu Cys Ile Tyr Ser Ala Val Arg Ile Tyr Arg Asp Leu His Leu
210 215 220
Ser Arg Gly Asp Thr Gly Trp Pro Val Lys Ile Val Val Pro Asp Ile
225 230 235 240
Glu Asp Val Leu Arg Ser Ala Ala Gly Asp Ser Glu Ala Ala Thr Ala
245 250 255
Glu Ala Glu Ala His Leu Leu Ala Arg Leu Arg Glu Asp Tyr Ser Arg
260 265 270
Gly Ala Met Ser Asp Glu Glu Ile Ala Arg Arg Pro Trp Tyr Gly Arg
275 280 285
Cys Val Tyr Glu Ala Asp Asn Asn Val Cys Asp Asp Gln Val Val Thr
290 295 300
Ile Thr Trp Asp Asp Glu Asp Glu Asp Glu Asp Glu Asp Lys Asp Glu
305 310 315 320
Ala Asn Pro His Ala Ala Arg Arg Arg Ala Lys Thr Ala Val Phe His
325 330 335
Met Ile Ser Pro Thr Glu Lys Gln Cys Glu Arg Arg Gly Arg Val Tyr
340 345 350
Gly Thr Arg Gly Glu Ile Thr Tyr Asp Ser Arg Thr Ile Ser Ile Tyr
355 360 365
Asp Phe Ala Thr Arg Ser Thr Thr Thr Ile Glu Val Pro Lys Gln Pro

```
    370                 375                 380
Pro Glu Glu Glu Glu Ala His Gly Gly Gly Asp Tyr Gly Leu Ala Arg
385                 390                 395                 400
Ser Phe Val Arg Ala Val Asp Ala Val Glu Asn Glu Gly Trp Asp Val
                405                 410                 415
Leu Arg Ala Gln Ala His Leu Val Val Phe Thr Thr Trp Leu Gln Gly
            420                 425                 430
Pro Ala Leu Ser Val Asn Glu
        435
```

<210> 24340
<211> 233
<212> PRT
<213> A.fumigatus

<400> 24340

```
His Leu Pro Gly Phe Ala Cys Gly Cys Trp Arg Leu Gly Thr Leu Arg
1               5                   10                  15
Arg Thr Thr Ala Arg Met Ala His Asn Gly Ile Ser Arg Ser Gln Arg
            20                  25                  30
Leu Thr Arg Leu Met Lys Gln Lys His Arg Thr Arg His Glu Gly Val
        35                  40                  45
Glu Pro Ala Ser Arg Pro Gly Lys Lys Pro Ala Gly Ser Leu Ile Ser
    50                  55                  60
Ser Met Lys Lys Pro His Val Leu Asp His Asn Lys His His Gly Ser
65                  70                  75                  80
Pro Gly Glu Val Ser His Asp Asp Ser Ala Tyr Ser Leu Gly Lys Arg
                85                  90                  95
Gln Asp Ser Ser Ala Ile Pro Pro Gly Ser Gln Thr Glu Ala Leu Ala
            100                 105                 110
Thr Ala Val Thr Ser Val Asp Glu Ala Pro Ala Asp Thr Gly Ala Ala
        115                 120                 125
Leu Pro Thr Val Ile Ser Asp Pro Ala Ser Ser Gln Pro Ala Val Ser
    130                 135                 140
Val Pro Val Glu Thr Leu Pro Ala Ala Val Pro Ser Thr Thr Ser Leu
145                 150                 155                 160
Asn Glu Ile Pro Val Pro Ser Pro Asp Pro Thr Ser Phe Thr Thr Asp
                165                 170                 175
Leu Ser Ala Thr Thr Thr Ala Asp Asp Leu Thr Ser Ile Pro Thr Thr
            180                 185                 190
Ser Val Phe Leu Ser Leu Asp Leu Ser Val Ser Leu Ser Val Ser Val
        195                 200                 205
Pro Thr Ser Ile Ala Ile Ile Asn Ser Ala Ser Ser Thr Gln Ser Ser
    210                 215                 220
Ala Leu Ile Pro Ser Ala Gln Ser Ser
225                 230
```

<210> 24341
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24341

```
Trp Leu Thr Thr Asp Ser Gly Arg Leu Glu Leu Arg Asp Thr Asp Lys
1               5                   10                  15
Asn Val Leu Ser Gln Leu Asn Gly Lys Lys Ala Ser Gly Tyr Gly Thr
```

```
            20                  25                  30
Phe Asp Gly Ala Thr Val Gln Thr Thr Ser Tyr Leu Pro Asn Cys Val
        35                  40                  45
Asn Phe Cys Leu Val Phe Thr Gly Arg Gln Asp Leu Ser Ser Asn Gln
    50                  55                  60
Gly Ile Asp Arg Ser Phe Ala Leu
65                  70
```

<210> 24342
<211> 113
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(53),(55),(61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24342

```
Thr Ala Glu Asn Pro Ser Phe Pro Gln Arg Xaa Ser Ile Val Met Glu
1               5                   10                  15
Tyr Val His Leu Val Glu His Thr Ile Tyr Gly Ser Thr Trp Asn Trp
            20                  25                  30
Asn His Trp Leu Gln Cys Ser Leu Met Pro Trp Phe Arg Phe Ser Tyr
        35                  40                  45
Thr Leu Ala Asp Xaa Phe Xaa Ile Tyr Ser Ser Ser Xaa Pro Thr Ile
    50                  55                  60
Val His Ala Pro Lys Asp Ser Val Gln Leu Ser Glu Ile Thr Leu Ile
65                  70                  75                  80
Ile Asp Arg Val Arg Leu Phe Arg Pro Tyr Ile Glu Ile Gly Glu Arg
                85                  90                  95
Ala Asn Phe Ser Leu His Ser Ser Glu Ala His Tyr Cys Val Arg Asn
            100                 105                 110
Ile
```

<210> 24343
<211> 227
<212> PRT
<213> A.fumigatus

<400> 24343

```
Gly Ala Arg Pro Phe Gln Pro Arg Gly Glu Asp Leu Ile His Ser Pro
1               5                   10                  15
Ser Gln Ser Leu Glu Gly Arg Phe Ala Leu Ile Ser Phe Arg Ile Ser
            20                  25                  30
Pro Ala Pro Ala Ser Ser Ser Leu Pro Ala Ser Ser Ser Pro Ser Ala
        35                  40                  45
Ser Ala Ser Ser Ile Ala Ser Thr Leu Ala Val Met Arg Ser Ser Thr
    50                  55                  60
Leu Arg Val Pro Ser Arg Leu Thr Thr Ile Ala Ser Ile Leu Lys Ser
65                  70                  75                  80
Pro Asp Asp Ile His Ser Val Ser Thr Pro Ile Gly Thr Leu His Pro
                85                  90                  95
Pro Ser Arg Val Leu Ile Arg Asp Leu Ser Ala Arg Gln Ala Ser Val
            100                 105                 110
```

```
Asp Phe Arg Ser Ala Ser Trp Pro Ser Asn Ser Cys Ile Phe Arg Ser
        115                 120                 125
Pro Leu Arg Ile Ser Lys Pro Arg Ala Pro Cys Pro Thr Ala Tyr Arg
    130                 135                 140
Met Pro Pro Ser Leu Glu Pro Arg Tyr Trp Leu Met Arg Cys Leu Arg
145                 150                 155                 160
Pro Thr Arg Ser Arg Pro Ala Ala Asp Met Thr Met His Met Tyr Ser
                165                 170                 175
Leu Cys Gly Ser Ser Thr Phe Ala Arg Arg Val Ser Thr Leu Pro Arg
            180                 185                 190
Arg Leu Ala Lys Arg Arg Cys Gly Tyr Arg Arg Arg Ser Trp Ala Glu
        195                 200                 205
Arg Arg Thr Asp Asp Val Pro Thr Thr Ala Pro Ser Arg Arg Leu Phe
    210                 215                 220
Lys Leu Val
225
```

<210> 24344
<211> 176
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (148),(174)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24344

```
Phe Ser Val Ser Cys Gly Leu Phe Phe Asn Leu Ser Phe Val Gly Met
1               5                   10                  15
Ser Leu Asp Asp Lys Tyr Ile Pro Ile Phe Tyr Gly Leu Cys Arg Asn
            20                  25                  30
Pro Ser Pro Leu Asn Phe Gln Pro Pro Ser Ser Ser Asp Asn Met Val
        35                  40                  45
Glu Thr Ser Pro Thr Pro Gln Leu Pro Leu Arg Ile Gly Thr Arg Arg
    50                  55                  60
Ser Asn Leu Ala Met Val Gln Thr Glu Gly Ile Arg Asp Arg Leu Gln
65                  70                  75                  80
Lys Ile Gly Pro Asp Arg Thr Tyr Glu Ile Glu Ala Leu Arg Thr Ala
                85                  90                  95
Gly Asp Arg Asp Gln Leu Thr Ala Leu Tyr Asp Phe Gly Ala Lys Ser
            100                 105                 110
Leu Trp Lys Thr Glu Leu Glu Glu Lys Leu Thr Ser Gly Glu Leu Asp
        115                 120                 125
Val Ile Val His Val Leu Lys Gly Asn Thr Arg Ile Pro Ser Arg Ser
    130                 135                 140
Ser Phe Asp Xaa Leu Gln Cys Arg Val Cys Thr Arg His Arg Tyr Ala
145                 150                 155                 160
Asp His Ala Pro Arg His Leu Arg Val Gly Ser Tyr Pro Xaa Pro Arg
                165                 170                 175
```

<210> 24345
<211> 265
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24345
Lys Val Ile Leu Glu Phe Arg Pro Val His Leu Leu Met Xaa Cys Ser
1 5 10 15
Ala Glu Phe Ala His Asp Thr Asp Met Pro Thr Thr Leu Pro Asp Thr
20 25 30
Cys Glu Leu Ala Ala Ile Pro Xaa Arg Asp Asp Pro Arg Asp Ala Leu
35 40 45
Ile Ile Lys Ala Gly Leu Pro Tyr Thr Ser Leu Lys Ser Leu Leu Glu
50 55 60
Gly Ala Val Val Gly Thr Ser Ser Val Arg Arg Ser Ala Gln Leu Arg
65 70 75 80
Arg Leu Tyr Pro His Leu Arg Phe Ala Asn Leu Arg Gly Asn Val Glu
85 90 95
Thr Arg Leu Ala Lys Val Asp Asp Pro His Ser Glu Tyr Met Cys Met
100 105 110
Val Met Ser Ala Ala Gly Leu Glu Arg Val Gly Leu Lys His Arg Ile
115 120 125
Ser Gln Tyr Leu Gly Ser Arg Asp Gly Gly Ile Leu Tyr Ala Val Gly
130 135 140
Gln Gly Ala Leu Gly Leu Glu Ile Arg Lys Gly Asp Arg Lys Met Gln
145 150 155 160
Glu Leu Leu Gly Gln Leu Ala Asp Arg Lys Ser Thr Leu Ala Cys Leu
165 170 175
Ala Glu Arg Ser Leu Met Arg Thr Leu Glu Gly Gly Cys Ser Val Pro
180 185 190
Ile Gly Val Glu Thr Glu Trp Met Ser Ser Gly Asp Leu Arg Met Asp
195 200 205
Ala Ile Val Val Ser Leu Asp Gly Thr Arg Ser Val Glu Asp Arg Ile
210 215 220
Thr Ala Arg Val Glu Ala Ile Asp Glu Ala Asp Ala Leu Gly Glu Glu
225 230 235 240
Leu Ala Gly Arg Leu Leu Glu Ala Gly Ala Gly Glu Ile Leu Lys Asp
245 250 255
Ile Asn Ala Asn Arg Pro Ser Lys Asp
260 265

<210> 24346
<211> 244
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24346
Glu Gln Ser Asn Xaa Ser Phe Pro Arg Lys Leu Pro Pro Asp Ile Leu
1 5 10 15
Ser Leu Pro Gly Leu Arg Tyr Pro Ala Met Ala Thr Pro Gln Glu Leu
20 25 30

```
Val Pro Gln Thr Glu Ser Ile Ala Glu Val Tyr Ala Thr Asp Asp Ala
        35                  40                  45
Ser Gly Thr Ser Ala Ala Pro Glu His Gln Ser Arg Phe Asn Gly Leu
    50                  55                  60
Val Ala His Phe Asn Lys Leu Tyr Gly His Arg Pro Asp Phe Val Ala
65                  70                  75                  80
Arg Ser Pro Gly Arg Val Asn Ile Ile Gly Glu His Ile Asp Tyr Asn
                85                  90                  95
Leu Tyr Asp Val Leu Pro Thr Ala Val Ser Val Asp Val Ile Ile Ala
            100                 105                 110
Val Lys Val Val Pro Pro Thr Gly Ser Glu Pro Phe Val Lys Ile Ser
        115                 120                 125
Asn Val Ser Pro Glu Lys Phe Pro Ser Arg Glu Phe Thr Val Pro Arg
    130                 135                 140
Asp Thr Asp Ile Glu Ile Asp Pro Lys Lys His Glu Trp Val Asn Tyr
145                 150                 155                 160
Phe Lys Ala Gly Leu Leu Gly Ala Leu Lys Phe Leu Arg Lys Gln Lys
                165                 170                 175
Ala Asp Gly Ser Phe Thr Pro Ala Ser Phe Glu Val Leu Val Asp Gly
            180                 185                 190
Asn Val Pro Pro Gly Gly Gly Ile Ser Ser Ser Ala Ala Phe Val Cys
        195                 200                 205
Ala Ser Ala Leu Ala Val Met Lys Ala Asn Gly His Asn Val Ser Lys
    210                 215                 220
Gln Asp Leu Leu Asp Leu Ala Val Val Ser Glu Arg Ala Val Gly Val
225                 230                 235                 240
Tyr Ser Gly Gly
```

<210> 24347
<211> 143
<212> PRT
<213> A.fumigatus

<400> 24347

```
Val Asp His Cys Ser Gly Ile Trp Tyr Cys Ala Leu Thr Ser Leu Cys
1               5                   10                  15
Cys Met Met Asp Gln Ala Ala Ser Ile Phe Ser Arg Arg Gly Tyr Leu
            20                  25                  30
Leu Tyr Thr Gln Phe Tyr Pro Asn Phe Ala Phe Gln His Val Pro Ile
        35                  40                  45
Pro Gln Gly Pro Met Lys Asp Ile Thr Phe Leu Met Ala Gln Ser Phe
    50                  55                  60
Val Thr Ser Asn Lys Ala Glu Thr Ala Pro Arg His Tyr Asn Leu Arg
65                  70                  75                  80
Cys Pro Glu Cys Thr Leu Ala Val Val Val Leu Val Ala Gln His Gly
                85                  90                  95
Ile Thr Leu Thr Lys Asp Asn Asn Ser Leu Gly Tyr Ser Leu Arg Asn
            100                 105                 110
Phe His Glu Glu Leu Met Arg Gln Glu Ala Arg Leu Arg Gly Pro Thr
        115                 120                 125
Gly Ile Pro Glu Pro Leu Arg Asp Ser Val His His Gly Asn Ser
    130                 135                 140
```

<210> 24348
<211> 180

<212> PRT
<213> A.fumigatus

<400> 24348
Thr Glu Ser Gln Ser Ser Pro Ser Ser Asn Pro Pro Ala Val His Ser
1 5 10 15
Arg Ser His Pro Ile Ala Pro Cys Ala Ser Pro Pro Pro Ser Pro Phe
20 25 30
Pro Pro Pro Arg Gln Ile Thr Thr Gly His Pro Pro Thr Thr His Pro
35 40 45
Arg Asp Lys Thr His Pro Ala Pro Gln Asn Pro His Pro Phe Leu Val
50 55 60
Gly Pro Pro Arg Met Gly Arg Ser Pro Pro Ala Gln Ala Pro Gly Ser
65 70 75 80
Gln Thr Arg Gly Thr Thr Ala Asn Cys Ser Pro Ala Cys Pro Cys Arg
85 90 95
Ala Gly Arg Ala Ala Thr Gln Arg Cys Gly Ser Ala Trp Pro Arg Pro
100 105 110
Gly Gly Glu Arg Arg Arg Pro Ala Arg Thr Gly Ala Arg Lys Arg Ala
115 120 125
Pro Leu Leu Arg Pro Cys Ala Gly Arg Arg Gly Arg Trp Arg Pro Ile
130 135 140
Phe Pro Gly Trp Pro Gly Ser Val Pro Ala Arg Met Pro Ser Ile His
145 150 155 160
Gly Trp Gly Thr Met Val Met Ala Val His Gly Ala Gly Ala Glu Val
165 170 175
Asn Gly Lys Ala
180

<210> 24349
<211> 286
<212> PRT
<213> A.fumigatus

<400> 24349
Arg Arg Ala Pro Pro Ser Ser Arg Asp Leu Ala Arg Pro Phe Gly Ser
1 5 10 15
Ser Gly Pro Ser Phe Met Pro Cys His Leu Pro Arg Pro Arg Pro His
20 25 30
Gly Arg Pro Ser Pro Leu Ser Pro Ser Arg Gly Ser Arg Ala Ser Gly
35 40 45
Pro Ala Gln Thr Pro Ala Ile Pro Glu Ile Trp Gly Ala Ile Ala His
50 55 60
Gly Asp Gln Arg Met Val Glu Ala Glu Val Leu Ala Cys Ala Leu Leu
65 70 75 80
Phe Ala Pro Asp Ala Phe Phe Arg Arg Gln Asp Glu Ala Met Gln Asn
85 90 95
His Ile Val Ala Trp Leu Arg Gly Leu His Gly Lys Asp Met Pro Val
100 105 110
Asn Asn Trp Arg Trp Phe Arg Val Phe Ala Asn Leu Ala Leu Val Leu
115 120 125
Val Ala Asn Val Pro Tyr Glu Glu Val Arg Pro Glu Met Asp Ala Asp
130 135 140
Phe Ala Val Leu Asp Gly Phe Tyr Leu Gly Gly Gly Trp Ser Gly Asp
145 150 155 160
Gly Pro Trp Leu Ser Ala Glu Gly Glu Glu Arg Glu Arg Glu Glu Gly

```
                165                 170                 175
Met Arg Thr Gly Arg Trp Asp Ala Ile Gly Cys Gly Arg Gln Ala Asp
            180                 185                 190
Tyr Tyr Ser Gly Ser Phe Ala Ile Gln Phe Ser Gln Leu Leu Tyr Val
        195                 200                 205
Lys Phe Ala Ser His Leu Asp Pro Glu Arg Ala Glu Arg Tyr Arg Ala
    210                 215                 220
Gln Ala Arg Glu Phe Gly Ala Ser Phe Trp Arg Tyr Phe Asp Lys Asn
225                 230                 235                 240
Gly Thr Pro Gly Asp Leu Gly Thr Gly Ala Thr Ser Ser Ala Asp Gly
                245                 250                 255
Ser Arg Arg Arg His Pro Leu Trp Thr Leu Pro Asp Val Ser Leu Arg
            260                 265                 270
Val Trp Ser Val Leu Arg Cys Ala Gly Cys Arg Arg His Pro
        275                 280                 285
```

<210> 24350
<211> 223
<212> PRT
<213> A.fumigatus

<400> 24350

```
Thr Ile Gly Gly Gly Ser Ala Cys Leu Arg Thr Trp Arg Leu Cys Trp
1               5                   10                  15
Trp Arg Thr Ser His Thr Arg Arg Ser Asp Gln Lys Trp Met Arg Ile
            20                  25                  30
Leu Arg Cys Trp Met Gly Phe Ile Ser Gly Val Gly Gly Arg Gly Met
        35                  40                  45
Ala Arg Gly Tyr Leu Pro Arg Gly Arg Lys Gly Arg Gly Arg Arg Gly
    50                  55                  60
Cys Ala Arg Gly Asp Gly Met Arg Ser Ala Val Asp Gly Arg Arg Ile
65                  70                  75                  80
Thr Thr Arg Gly Ala Leu Arg Phe Ser Leu Ala Ser Cys Phe Met Ser
                85                  90                  95
Ser Leu Arg Ala Ile Trp Thr Arg Ser Glu Arg Arg Gly Ile Ala Pro
            100                 105                 110
Arg Arg Gly Ser Leu Gly Pro Val Ser Gly Gly Ile Leu Thr Arg Thr
        115                 120                 125
Val Arg Leu Val Ile Ser Gly Gln Val Arg Arg Val Gln Leu Thr Gly
    130                 135                 140
Val Gly Gly Ala Ile Pro Phe Gly Arg Ser Leu Thr Tyr Arg Phe Ala
145                 150                 155                 160
Cys Gly Ala Phe Phe Ala Ala Leu Ala Val Ala Asp Ile Pro Asp Met
                165                 170                 175
Pro Asp Pro Leu Ala Ser Met Gly Ala Val Lys Gly Phe Leu Leu Arg
            180                 185                 190
His Leu Arg Trp Trp Ala Ala His Ser Thr Asp Val Phe Tyr Ala Asp
        195                 200                 205
Gly Leu His His Gly Ala Gly Arg Ile Arg Gly Trp Cys Gln Ile
    210                 215                 220
```

<210> 24351
<211> 156
<212> PRT
<213> A.fumigatus

<400> 24351
Glu Asp His Thr Ser Ser Asp Ser Met Thr Gly His Pro Ala Leu Gln
1 5 10 15
Pro Leu Asp Ala Ser Gly Gln Gln Glu Met Arg Ala Met Phe Ser Thr
20 25 30
Pro Asn Ser Phe Leu Thr Ser Ser Trp Thr Arg Thr Pro Asn Val Glu
35 40 45
Asp Asn Val Thr Leu Ser Leu Pro Thr Pro Ala Arg Ala Ala Gly Pro
50 55 60
Ser His His Ala Ser Gln Leu Gln Ile Pro Ala Gln Arg Pro His Ser
65 70 75 80
Ser Ile Ser Ser Ala Pro Lys Leu Ile Asn Asp Gly Ser Thr Ile Pro
85 90 95
Asp Ile Pro Ser Pro Phe Pro Val Asn Thr Pro Gln Tyr Gln Gln Thr
100 105 110
Tyr Ser Asp Pro Asn Leu His Leu Gly Pro Phe Met Asp Ile Glu Arg
115 120 125
Tyr Ala Ser Leu Arg Arg Pro Arg Ile Ala Pro Asp Leu Asp Ala Leu
130 135 140
Phe Asp Glu Leu Ala Ser Leu Asp Gly Thr Glu Lys
145 150 155

<210> 24352
<211> 156
<212> PRT
<213> A.fumigatus

<400> 24352
Lys Asn Ser Pro Met Gly Lys Phe Asn Ser Ser Tyr Ile Arg Gly Pro
1 5 10 15
Gln Leu Asn Pro Leu Gly Pro Pro Val Ser Pro Ile Ile Tyr Gly Asn
20 25 30
Pro Thr Ile Ala Glu Val Glu Thr Ser Ser Lys Ala His Ala Lys Ser
35 40 45
Leu Gly Ala Thr Trp Ala Thr Phe Lys Ser Lys Pro Glu Gly Ala Ile
50 55 60
Ile Val Arg Ile Gln Pro Pro Ala Gly Asn Val Asp Gly Ile Ile Ile
65 70 75 80
Ile Pro Gly Ala Phe Thr His Thr Ser Val Ala Ile Arg Asp Ala Leu
85 90 95
Leu Gly Val Gly Ile Pro Phe Ile Glu Leu His Val Ser Asn Val His
100 105 110
Ala Arg Glu Pro Trp Arg His His Ser Tyr Phe Ser Asp Lys Ala Ala
115 120 125
Gly Ile Ile Val Gly Leu Gly Val Tyr Gly Tyr Lys Val Ala Val Glu
130 135 140
His Val Ala Leu Asn Phe Lys Glu Arg Ala Ala Leu
145 150 155

<210> 24353
<211> 167
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (65),(104)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24353
Leu Pro Ser Leu Pro Ser Asp Cys Ile Val Leu Met Pro Leu Phe Gln
1 5 10 15
Ser Trp Thr Arg Pro Pro Ser Arg Arg Ile Tyr Leu Thr Leu Val Ser
20 25 30
Pro Val Ile Gly Leu Leu Leu Val Tyr Leu Phe Phe Ala Phe Asp Thr
35 40 45
Asp Ala Phe Thr Pro Lys Val Val Val Thr Pro Ile Ser Leu Thr Gln
50 55 60
Xaa Thr Ala Thr Cys Pro Pro Leu Arg Gly Ile Glu Asp Val Leu Val
65 70 75 80
Ile Phe Glu Thr Gly Val Thr Glu Ala Leu Glu Lys Val Pro Val His
85 90 95
Phe Gln Thr Thr Leu Arg Cys Xaa Pro Asp Tyr Val Leu Phe Ser Asp
100 105 110
Phe Glu Glu Glu Ile Asn Gly Thr Arg Val Asn Asp Gly Leu Gly Thr
115 120 125
Val Asn Glu Thr Ile Lys Arg Thr Arg Ala Asp Phe Asp Leu Tyr Asn
130 135 140
Arg Ile His Glu His Gly Arg Gln Gly Leu Thr Pro Ala Asp Leu Ser
145 150 155 160
Arg Ser Pro Thr Cys Ile Trp
165

<210> 24354
<211> 206
<212> PRT
<213> A.fumigatus

<400> 24354
Arg Asn Val Leu Ala Trp Ser Phe Leu Val Gly Ala Arg Ile Ser Phe
1 5 10 15
Val Phe His Glu Leu Tyr Ser Asn Gly Ile Lys Ala Val Asp Pro Phe
20 25 30
Asp Gln Val Lys Asp Ile Asp Ile Arg Thr Ile Leu Tyr Asn Ser Ser
35 40 45
Gly Ser Ser Pro Ala Leu Phe Val Gly Thr Thr Ala Phe Glu Leu Ile
50 55 60
Val Lys Gln Gln Ile Lys Arg Leu Glu Asp Pro Ser Leu Lys Cys Ile
65 70 75 80
Ser Leu Val Tyr Asp Glu Leu Val Arg Ile Leu Gly Gln Leu Leu Asn
85 90 95
Lys Gln Leu Phe Arg Arg Tyr Pro Met Leu Lys Glu Lys Phe His Ala
100 105 110
Val Val Ile Asn Phe Phe Lys Lys Cys Met Glu Pro Thr Asn Lys Leu
115 120 125
Val His Asp Leu Ile Ser Met Glu Ala Cys Tyr Ile Asn Thr Gly His
130 135 140
Pro Asp Phe Leu Asn Gly His Arg Val Ser Asp Val Trp Ser Gln Phe
145 150 155 160
Leu Leu Ser Thr Ile Leu Thr Glu Cys Arg Leu Trp Gln Leu Ser Met
165 170 175
Asn Ala Ser Lys Arg Ala Ser Leu His Arg Trp Thr Arg Arg Arg Ala

```
            180                 185                 190
Asn Leu Cys Leu Leu Val Gln Thr Ala Arg Arg Ser Met Pro
        195                 200                 205

<210> 24355
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24355
Arg Leu Val Pro Ile Ser Phe Val Asn Asp Pro Asp Arg Met Gln Ala
1               5                   10                  15
Met Ala Ile Val Asn Glu Arg Gln Gln Ala Ser Lys Pro Thr Gln Val
            20                  25                  30
Asp Pro Lys Thr Gly Lys Pro Leu Pro Pro Arg Ala Asn Ser Pro Ser
        35                  40                  45
Val Asp Ala Val Ala Ala Thr Glu Asn Ser Gly Ser Gly Phe Phe Gly
    50                  55                  60
Ser Phe Trp Ala Ser Lys Asn Lys Lys Lys Met Ala Ala Met Glu Pro
65                  70                  75                  80
Pro Pro Pro Thr Leu Lys Gly Ser Ala Val Phe Thr Tyr Gly Ser Cys
                85                  90                  95
Gln Asp Pro Arg Leu Met
            100

<210> 24356
<211> 233
<212> PRT
<213> A.fumigatus

<400> 24356
Ser Ser Phe Leu Gln Ser Phe Ser Leu Ser Ile Phe Phe Pro Val Leu
1               5                   10                  15
Phe Phe Leu Thr Ser Pro Gln Gln Lys Glu Thr Ile Thr Met Arg Ala
            20                  25                  30
Ser Phe Leu Leu Pro Val Ala Ile Tyr Val Leu Thr Ala Tyr Ala Asp
        35                  40                  45
Asp Lys Thr Thr Thr Val Gly Tyr Phe Ile Pro Ser Trp Ser Val Thr
    50                  55                  60
Leu Leu Ser Tyr Gly Val Trp Thr Ser Thr Gly Ala Ser Val Ala Gly
65                  70                  75                  80
Ile Asn Ala Ala Ala Thr Thr Tyr His Leu Gly Cys Leu Lys Asp Ala
                85                  90                  95
Pro Lys Thr Asp Cys Asn Ile Lys Asn Ser Trp Thr Ile Ile Gln Gly
            100                 105                 110
Pro Glu Thr Val Ser Ala Thr Gly Val Tyr Thr Ala Ser Thr Ser Gly
        115                 120                 125
Lys Glu Thr Ser Tyr Asp Ile Thr Val Thr Glu Ser Tyr Glu Cys Lys
    130                 135                 140
Ile Arg Ser Arg Thr Glu Ser Ala Ser Cys Thr Met Ser Val Gly Met
145                 150                 155                 160
Thr Gly Ser Val Gly Gly Ala Ala Ile Thr Ser Ser Thr Ser Thr Ser
                165                 170                 175
Ala Thr Tyr Ser Pro Ala Thr Ser Ser Tyr Tyr Glu Leu Val Val Thr
            180                 185                 190
Ala Gly Val Asp Lys Phe Thr Val Pro Glu Ala Thr Lys Thr Pro Gly
```

```
        195                 200                 205
Val Ala Ala Ala Gly Pro Ala Gly Ala Leu Ile Thr Ala Gly Pro Val
    210                 215                 220
Val Ala Ala Ala Val Ala Ala Leu Leu
225                 230
```

<210> 24357
<211> 486
<212> PRT
<213> A.fumigatus

<400> 24357

```
Lys Ser Gly Gly Arg His Ser Gln Ser Thr Thr Asp His Ser Leu Asp
1               5                  10                  15
Phe His Ser Arg Asp Lys Ile Leu Gly Ile Val Leu Ser Gln Met Lys
            20                  25                  30
Gln Pro Ile Pro Ala Val Leu Ser Ser Phe Pro Ser Ala Gln Leu Leu
        35                  40                  45
Asp Ser Leu Ile Arg Tyr Tyr Leu Thr Ala Pro Phe Ser Thr Ala Asn
    50                  55                  60
Thr Trp Ile His Arg Ala Thr Phe Arg Pro Arg Gln Val Cys Pro Glu
65                  70                  75                  80
Leu Leu Leu Ala Met Ala Ala Ser Gly Ala Val Leu Thr Pro Asp Pro
                85                  90                  95
Ser Leu Arg Lys Leu Gly Phe Ala Met Gln Glu Val Val Arg Leu Gln
            100                 105                 110
Leu Pro Ser Val Phe Glu Arg Asn Asn Thr Thr Ile Arg Asp Leu His
        115                 120                 125
Leu His Gln Ala Tyr Leu Leu Tyr Leu Glu Ile Gly Leu Trp Ser Gly
    130                 135                 140
Asn Ser Arg Lys Ile Glu Ile Ser Glu Ala Phe Arg Gln Pro Leu Leu
145                 150                 155                 160
Thr Met Val Arg Arg Gly Gly Asn Phe His His Ser Ala Tyr Pro Pro
                165                 170                 175
Leu Pro Ala Arg Leu Glu Glu Ser Gly Arg Ser Leu Glu Asp Thr Trp
            180                 185                 190
Arg Ala Trp Val Tyr Lys Glu Ala Tyr Lys Arg Leu Val Tyr Arg Leu
        195                 200                 205
Phe Arg Leu Glu Ala Gln Val Ser Met Ala Leu Phe Thr Ser Pro Leu
    210                 215                 220
Val Thr Tyr Val Glu Met Gly Pro Pro Leu Pro Ala Pro Ala Tyr Leu
225                 230                 235                 240
Trp Glu Ala Ser Ser Ala Ser Gln Trp Lys Asp Ala Tyr His Ser Ser
                245                 250                 255
Pro Leu Pro Ser Thr Gly Arg Ile Arg Thr Leu Asn Glu Cys Val Ala
            260                 265                 270
Asn Leu Asp Leu Leu Glu Thr Ser Arg Arg Val Ala Asp Ile Arg Leu
        275                 280                 285
Ala Cys Gly Ala Val Met His Cys Ile Trp Gly Leu Val Trp Glu Phe
    290                 295                 300
Arg Gln Leu Ser Ser Leu Leu Asn Gly His Ser Arg Tyr Trp Asp Asn
305                 310                 315                 320
Asp Leu Leu Met Val Ala Arg His Gly Gln Leu Ser Arg Ile Leu Glu
                325                 330                 335
Cys Phe Arg Ile Gly Tyr Arg Asp Glu Val Pro Val Gln Leu His Phe
            340                 345                 350
```

```
Val Met Met His Met Tyr Val Ser Leu Glu Glu Val Glu Thr Leu Ala
        355                 360                 365
Thr Ser Asp Asp Ala Gly Arg Ala Trp Glu Gln Pro Ala Leu Ser Asp
    370                 375                 380
Trp Phe Lys Ser Glu His Cys Arg His Ala Ile Trp His Ala Gly Gln
385                 390                 395                 400
Val Val Arg Gly Ile Lys Cys Leu Pro Leu Gln Gly Leu Arg Asp Phe
                405                 410                 415
Met Ala Ile Ala Leu Tyr His Ala Ser Leu Thr Leu Trp Ala Tyr Gly
            420                 425                 430
Val Val Phe Phe His Asn Met Asp Asn Gln Ser Gln Gln Leu Ala Gly
        435                 440                 445
Pro Thr Leu Gln Gln Lys Val Trp Leu Asp Gly Leu Glu Cys Glu Asp
    450                 455                 460
Ile Gln Arg Phe Ile Thr Leu His Arg Gly Ile Pro Val Leu Gln Gly
465                 470                 475                 480
Leu Gly His Ala Glu Glu
                485
```

<210> 24358
<211> 216
<212> PRT
<213> A.fumigatus

<400> 24358

```
Trp Ser Ile Ala Leu Glu Leu Ala Lys Glu Tyr Gln Met Tyr Asp Trp
1               5                   10                  15
Val Arg Ala Leu Leu Asp Pro Thr Glu Ile Pro Gln Thr Pro Lys Lys
            20                  25                  30
Gln Ile Thr Pro Pro Pro Lys Phe Glu Leu Pro Pro Ile Glu Ala Pro
        35                  40                  45
Thr Gln Leu Ser Ala Pro Ser Gln Arg Thr Arg Arg Gly Arg Ser Ala
    50                  55                  60
Ser Pro Ser Lys Arg Ala Thr Leu Ser Pro Arg Lys Pro Arg Lys Thr
65                  70                  75                  80
Arg Ala Ala Lys Glu Ala Ser Val Glu Glu Ala Ser Ala Ala Ser Ala
                85                  90                  95
Ser Leu Gln Asn Ala Leu Asp Met Thr Ala Ser Asn Ala Asp Ala Gly
            100                 105                 110
Ser Ala Asn Gly Thr Val Glu Ser Ser Val Glu Glu His Val Glu Glu
        115                 120                 125
Lys Val Val Thr Val Thr Gly Asp Thr Thr Lys Pro Ala Ser Arg Lys
    130                 135                 140
Lys Val Ala Ala Ile Pro Glu Glu Asn Glu Val Glu Glu Glu Lys Val
145                 150                 155                 160
Lys Val Asp Val Lys Thr Thr Ala Asp Thr Val Asp Asp Val Arg Thr
                165                 170                 175
Thr Gln Thr Thr Ile Ser Val Glu Met Pro Val Ser Leu Pro Glu Ala
            180                 185                 190
Pro Ser Ala Glu Asp Thr Asp Lys Cys Leu Gly Trp His Ser Cys Ser
        195                 200                 205
Pro Arg Arg Met Lys Asp Ile Cys
    210                 215
```

<210> 24359
<211> 72

<212> PRT
<213> A.fumigatus

<400> 24359
Leu Val Arg Asp Phe His Lys Leu Thr Thr Gln Leu Arg Asp Ser Gln
1 5 10 15
Ala Pro Thr Gln Ser Asp Ile Ser Gly Ser Lys Asn Ser Leu Asp Tyr
20 25 30
Leu Leu Thr Met Lys Thr Glu Tyr Ala Ser Phe Tyr His Gly Ile Glu
35 40 45
Gln Ile Asp Pro Thr Ala Pro Val Phe Ala His Ile Arg Leu Phe Arg
50 55 60
Lys Lys Lys Met Ala Cys Ser Ser
65 70

<210> 24360
<211> 227
<212> PRT
<213> A.fumigatus

<400> 24360
Arg Gly Leu Val Arg Gln Met Val Arg Phe Leu Val Met Pro Gly Arg
1 5 10 15
Arg Arg Lys Ser Arg Arg Ser Val Ser Arg Glu Arg Ser Phe Ala Arg
20 25 30
Ile Ala Thr Asn Ala Asp Tyr Glu Thr Thr Glu Ser Trp Ala Pro Gln
35 40 45
Ala Ser Leu Ile Pro His Ser Thr Ala Pro Leu Ala Ser Arg Val Ser
50 55 60
Val Pro Pro Leu Ala Ser Ala Leu Pro Pro Pro Leu His Pro Thr Pro
65 70 75 80
Leu Arg Glu Leu Asn Thr Asp Ala Gln Glu Ala Val Ile Leu Glu Asp
85 90 95
Leu Leu Phe Val Phe Met Gly Phe Glu Gly Arg Tyr Ile His Tyr His
100 105 110
His Thr Phe Asp Pro Thr Ala Glu Lys Asp Arg Leu Ala Gly Pro Ala
115 120 125
Phe Gln Leu Pro Ser Gly Leu Asp Pro Thr Leu Arg Asp Leu Thr Ser
130 135 140
Ser Met Leu Lys Met Ala Thr His Tyr Ser Ala Leu Glu Ser Phe Val
145 150 155 160
Glu Val Gln Ser Arg Ala Glu Tyr Gly Ala Val Asn His Ala Leu Cys
165 170 175
Ala Thr Ile Arg Arg Ile Leu Lys Asp Tyr Leu Ile Leu Val Ala Gln
180 185 190
Leu Glu Thr Gln Leu Leu Asn His Ser Asn Phe Thr Leu His Met Leu
195 200 205
Leu Leu His Thr Val Pro Thr Arg Ser Ser Pro Gln Gly Pro Arg Thr
210 215 220
Ala His Glu
225

<210> 24361
<211> 92
<212> PRT
<213> A.fumigatus

<400> 24361
Glu Val Val Thr Asp Pro Arg Asp Leu Gly Leu Thr Glu Ser Lys Ile
1 5 10 15
Ser Gly Asp Gln Gln Asn Gly Ala Asp Val Leu Ser Pro Gln Ala Lys
20 25 30
Asn Arg Lys Phe Met Glu Ile Thr Met Glu Thr Pro Leu Ser Val Leu
35 40 45
Asn Arg Phe Phe Glu Trp Asn Ser Ala Ala Ile Val Thr Glu Arg Asp
50 55 60
Glu His Gly Thr Met Arg Pro Leu Ala Val Ala Thr Lys Val Asp Leu
65 70 75 80
Leu Thr Trp Met Leu His His Asn Glu Asn Ser Ser
85 90

<210> 24362
<211> 279
<212> PRT
<213> A.fumigatus

<400> 24362
Ile Val Val Phe Trp Gly Ser Gln Ser Gly Thr Ala Glu Gly Phe Ala
1 5 10 15
His Arg Leu Ala Arg Glu Val Ser Leu Arg Phe Gly Gln Glu Ala Met
20 25 30
Thr Ala Asp Leu Ser Asp Tyr Asp Pro Asp Ser Val Ser Arg Ile Pro
35 40 45
Asn Ser Lys Leu Ala Ile Phe Ile Leu Ser Thr Tyr Gly Glu Gly Asp
50 55 60
Pro Ser Asp Asn Thr Ala Glu Phe Trp Asp Trp Ile His Lys Ser Gln
65 70 75 80
Asn Val Ser Leu Ser Asn Leu Arg Tyr Ala Ala Phe Gly Leu Gly Asn
85 90 95
Ser Asn Tyr Lys Phe Tyr Asn Arg Val Val Asp Val Val Val Glu Ala
100 105 110
Leu Asp Arg Phe Gly Ala Lys Ser Leu Met Pro Val Gly Lys Ala Asn
115 120 125
Asp Ala Glu Gly Thr Thr Gln Glu Asp Phe Met Ser Trp Lys Glu Asn
130 135 140
Leu Phe Ala Thr Phe Lys Gln Gln Leu Gly Phe Gln Glu Ala Glu Val
145 150 155 160
Lys Tyr Met Pro Thr Leu Ser Val Gln Glu Asp Glu Ser Leu Ala Pro
165 170 175
Ile Asp Leu His His Gly Glu Pro Asp Ile Arg Arg Asp Ser Val Lys
180 185 190
Ser Ala Ala Gln Cys Ser Pro Val Arg Ala Val Asp Ile Ser Ser Ser
195 200 205
Arg Glu Leu Phe Ala Ser Ser Asp Arg His Cys Leu His Ile Glu Leu
210 215 220
Asp Leu Ser Ser Gln Pro Glu Phe Thr Tyr Lys Thr Gly Asp His Leu
225 230 235 240
Ala Val Trp Ala Gly Asn Pro Asp Ala Glu Val Asp Ile Leu Val Asn
245 250 255
Ala Leu Gly Leu Pro Pro Ser Arg His Glu Ile Pro Ile Ser Ile Thr
260 265 270
Ser Leu Asp Pro Ala Thr Lys

275

<210> 24363
<211> 224
<212> PRT
<213> A.fumigatus

<400> 24363
Arg Thr Leu Phe Ala Met Ser Arg Leu Arg Lys Leu Gly Tyr Asp Leu
1 5 10 15
Ser Pro Ser Ser Leu Pro Ser Ser Phe Ser Gly Phe Lys His Arg Arg
20 25 30
Thr Leu Thr Val Pro Cys Lys Ser Phe Val Ser Asp Cys Ser Pro Ile
35 40 45
Arg Ser Ala Gly Ala Ser Ser Phe Ala Glu Val Arg Arg Gly Thr Tyr
50 55 60
Leu Ser Thr Arg Ser Phe Arg Ala Ser Ala Thr Ala Pro Ala Pro Ala
65 70 75 80
Pro Ala Arg Ser Ala Pro Ser Leu Pro Ala Pro Ser Thr Arg Phe Val
85 90 95
Arg Ala Pro Val Pro Ala Arg Thr Gly Thr Gly Ala Thr Leu Thr Arg
100 105 110
Ser Leu Pro Ser Gln Ser Arg Gly Ala Ala Gln Gln Asp Gly Pro Leu
115 120 125
Asp Val Val His Ser Ile Met Glu Arg Ala Arg Leu Arg Ser Gln Ala
130 135 140
Leu Arg Ser Arg Tyr Gly Leu Pro Glu Arg Leu Arg Phe Asp Pro Arg
145 150 155 160
Thr Gln Thr Arg Val Glu Gln Ser Ser Thr Ser Leu Asp Pro Thr Thr
165 170 175
Arg Pro Thr Arg Phe Ala Glu Arg Ile Arg Ile Leu Ala Glu Glu Ala
180 185 190
Ala Ala Ser Ser Ala Asn Arg Arg Ala Thr Leu Ser Lys Phe Ala Ala
195 200 205
Phe Asp Glu Val Val Ala Arg Val Arg Ala Arg Lys Gln Ser Thr Ser
210 215 220

<210> 24364
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24364
Ile Ile Gly Thr Lys Cys Ala Asn Leu Arg Gln Arg Arg Ser Ser Asn
1 5 10 15
Lys His Ala Ala Gly Thr Val Phe Ser Arg Gln Ser Ala His Leu Arg
20 25 30
Leu Gln Gly Leu Ala Leu Ser Arg Ala Arg Arg Asn Ile Asn Thr Thr
35 40 45
Cys Pro Pro Val Leu Gln Arg Leu Ser Phe Gln Gln Arg His Gln Leu
50 55 60
Ala Leu Asp Cys Thr Glu Trp Ser Arg Gly Ala Ile Met His Ile Arg
65 70 75 80
Ser Leu Leu Thr Ile Pro Val Leu Leu Gly Pro Leu Thr His Ala Ala
85 90 95
Ala Ile Pro Ala Gly Ser Ser Ser Thr Glu Ser Ile Gln Ser Arg Gln

```
            100                 105                 110
Ala Ala Asn Gly Pro Gly Tyr Trp Leu Glu Ser Ile Ser His Gln Gly
        115                 120                 125
Ile Ala Pro Leu Gly Pro Ser Gly Tyr Arg Val Phe Arg Asn Val Lys
    130                 135                 140
Asp Phe Gly Ala Lys Cys Glu Ser His Pro Gln Trp Ala Thr Ile Arg
145                 150                 155                 160
Pro Ile Leu
```

<210> 24365
<211> 332
<212> PRT
<213> A.fumigatus

<400> 24365

```
Pro Arg Pro Pro Ser Leu Arg Arg Ser Cys Pro Pro Arg Glu Asp Ala
1               5                   10                  15
Arg Gly Lys Glu Arg Ser Tyr Val Ala Ser Leu Glu Gly Tyr Cys Glu
            20                  25                  30
Arg Leu Glu Lys Gln Ile Ala Ser Leu Arg Tyr Arg Lys Glu Ser Ser
        35                  40                  45
Ser Thr Asp Glu Arg Gly Thr Val Arg Glu Ser Ser Ile Thr Ser Ala
    50                  55                  60
Ser Ser Ser Asp Cys Val Ala Gln Ser His Arg Lys Glu Val Ser Asp
65                  70                  75                  80
Ile Asp Asp Leu Val Gly Asp Phe Gly Phe Leu Ser Val His Val Arg
                85                  90                  95
Ser Ala Val Val Val Ser Leu Leu Thr Ser Cys Ser Arg Ser Val Asn
            100                 105                 110
Ala Thr Ser Arg Asp Phe His Gly Ile Thr Ser Ser Thr Ser Phe Ala
        115                 120                 125
Asn Leu Leu Leu Ser Leu Ala Ile Ala Glu Pro Leu Pro Lys Leu Ser
    130                 135                 140
Ser Gln Ser Leu Pro Ser Arg His Glu Ile Thr Pro Leu Leu Arg His
145                 150                 155                 160
Tyr Phe Asp Asn Leu Tyr Thr Gln Leu Pro Phe Phe Val Glu Thr Ser
                165                 170                 175
Phe Trp Thr Ser Val Asp Ala Val Tyr Gln Ser Gly Gly Arg Phe Ala
            180                 185                 190
Lys Pro Phe Asp His Trp Ile Leu Arg Leu Val Leu Ala Ile Ser Ser
        195                 200                 205
Ala Ser Thr Ser Tyr Gln Pro Gly Asp Arg Asp His Gln Arg Ala Leu
    210                 215                 220
Ser Leu Ile Ser Gly Ala Leu Lys Tyr Ala Glu Glu Val Leu Arg Pro
225                 230                 235                 240
Gly Ser Val Val Gly Ile Gln Gly Ile Leu Leu Leu Ala Gln Tyr Ser
                245                 250                 255
Phe Phe Asp Pro Asn His Phe Arg Ser Trp Tyr Leu Val Gly Thr Ala
            260                 265                 270
Val Arg Ala Met Val Asp Leu Gly Leu His Gln Asp Pro Pro Leu Glu
        275                 280                 285
Glu Leu Ser Thr Pro Asp Arg Leu Asp Ile Arg Arg Ile Val Tyr His
    290                 295                 300
Cys Val Tyr Cys Leu Asp Arg Phe Val Ser Pro Leu His Ser Asp Thr
305                 310                 315                 320
```

```
Ser Ser Ile Leu Leu Ile Trp Leu Arg Lys Gly Val
                325                 330

<210> 24366
<211> 144
<212> PRT
<213> A.fumigatus

<400> 24366
Ser Pro Ala Pro Glu Cys Pro Asp Leu Lys Lys Tyr Ser Ser Pro Phe
1               5                  10                  15
Leu Trp Pro Lys Trp Arg Lys Ser Met Met Thr Trp Ile Ser Cys Ala
            20                  25                  30
Val Thr Ala Leu Ala Gly Tyr Ser Ala Gly Glu Ile Ser Pro Ser Ser
        35                  40                  45
Ala Glu Leu Thr Lys Glu Trp Gly Ile Ser Gln Val Val Tyr Asn Leu
    50                  55                  60
Gly Ile Thr Leu Phe Cys Ile Gly Phe Ala Leu Ala Pro Met Val Leu
65                  70                  75                  80
Ala Pro Phe Ser Glu Ile Asn Gly Arg Arg Pro Ile Phe Ile Ala Ser
                85                  90                  95
Gly Ile Leu Phe Val Gly Met Val Arg Leu Met Asn Asp Arg Gln Ser
            100                 105                 110
Phe Pro Asn Ala Asn Leu Arg Ser Lys Pro Ala Ser Leu Pro Val Gly
        115                 120                 125
Ala Leu Thr Leu Leu Glu Glu Cys Leu Leu His Asp Ser Ser Arg Ala
    130                 135                 140

<210> 24367
<211> 155
<212> PRT
<213> A.fumigatus

<400> 24367
Ala Asp Val Cys Gln Ser Ser His Arg His Ser Cys His Arg Ser Leu
1               5                  10                  15
Leu Thr Ala Ala Ala Thr Phe Ser Thr Met Val Gly Gly Val Ile Ser
            20                  25                  30
Asp Ile Tyr His Ala Glu Asp Arg Asn Thr Pro Met Ala Leu Phe Ser
        35                  40                  45
Gly Ala Ala Leu Phe Gly Thr Gly Leu Ala Pro Met Leu Ala Gly Ala
    50                  55                  60
Val Val Gln His Thr Thr Trp Arg Trp Val Trp Tyr Ser His Ala Ile
65                  70                  75                  80
Val Ser Ala Val Phe Val Ile Ile Ile Tyr Phe Phe Phe Lys Glu Thr
                85                  90                  95
Arg Gly Ser Val Leu Leu Ser Arg Lys Ala Lys Ala Leu Asn Thr Tyr
            100                 105                 110
Tyr Glu Lys Leu Glu Ser Ala Gly His Tyr Gly Val Ile Met Ser Asp
        115                 120                 125
Lys Glu Thr Val Lys Arg Ile Arg Trp Lys Val Lys Ser Asp Glu Glu
    130                 135                 140
Ser Ser Pro Arg Ala Gly His Pro Arg Lys Arg
145                 150                 155

<210> 24368
```

<211> 106
<212> PRT
<213> A.fumigatus

<400> 24368
Arg Thr Ser Ser Ala Tyr Ile Leu Phe Ser Leu Glu His Pro Cys Glu
1 5 10 15
Glu Thr Phe Glu Arg Leu Lys Val Ala Leu Pro Val Ser Ile Ser Asn
20 25 30
Ser Val Lys Leu Trp Pro Ala Val Thr Ala Phe Ser Phe Val Tyr Val
35 40 45
Ser Pro Pro Phe Arg Ser Ile Phe Ala Gly Val Ile Ala Val Gly Trp
50 55 60
Gln Thr Tyr Leu Ser Trp Leu Asn Gln Lys Ala Ala Arg Glu Val Glu
65 70 75 80
Ala Glu Met Ala Glu Ser Asp Arg Ser Ser His Val Leu Val Ser Gly
85 90 95
Ser Ile Ser Pro Ser Thr Thr Ile Lys Ala
100 105

<210> 24369
<211> 130
<212> PRT
<213> A.fumigatus

<400> 24369
Tyr Glu Phe Ile Thr Ile Ile Thr Gly Met Ser Cys Pro Pro Thr Ser
1 5 10 15
Tyr Ile Val Met Ser Asp Asp Leu Asp Asp Cys Ser Asp Tyr Gly Ser
20 25 30
Asp Phe Thr Pro Asp Glu Glu Glu Leu Leu Asn Asp Leu Leu Ala Lys
35 40 45
Val Ala Thr Glu Tyr Ala Thr Ala Gln Ala Ser Ala Thr Ala Thr Ala
50 55 60
Thr Thr Thr Thr Ala Ser Lys Thr Val Gln Ala Thr Val Thr Thr Gly
65 70 75 80
Ala Asp Ile Glu Asp Tyr Ala Glu Ser Pro Ala Ser Gln Arg Val Pro
85 90 95
Lys Val Leu Gly Arg Glu Lys Pro Asp Phe Leu Trp Gln Lys Arg Met
100 105 110
Val Gln Gln Val Thr Asp Leu Ser Val Phe Ala Thr Arg Leu Glu Gly
115 120 125
Pro Arg
130 .

<210> 24370
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24370
Leu His Gln Val Glu Leu Ile Gly Tyr Ile Gly Arg Cys Leu Ser Ala
1 5 10 15
Ser Gln Ser Pro Asn Trp Thr Leu Gly Pro Tyr Ile Met Gln Ser Thr
20 25 30
Leu Leu Leu Val Ala Pro Ala Leu Phe Ala Ala Ser Ile Tyr Met Glu

```
        35                  40                  45
Leu Gly Arg Met Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg His
    50                  55                  60

<210> 24371
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24371
Thr His Trp Ser Leu Ile Gln Lys Gly Val Lys Val Thr Gly Ser Asn
1               5                   10                  15
Ile Gly Ser Pro Asp Asp Ile Arg Ala Met Leu Gln Leu Ala Ala Glu
            20                  25                  30
Lys Glu Val Leu Pro Trp Ile Gln Glu Arg Pro Met His Asp Ile Asn
        35                  40                  45
Ala Ala Leu Ala Asp Met Asp Ala Asn Lys Ala Arg Tyr Arg Tyr Val
    50                  55                  60
Leu Ser Asn Glu Met Gly Ala Gln Ser Lys Leu
65                  70                  75

<210> 24372
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24372
Ile Ile Ala Met Leu Leu Lys Arg Gly Tyr Glu Gly Trp Val Ala Tyr
1               5                   10                  15
Glu Tyr Tyr Pro Ser Met Ala Ala Gly Val Ile Phe Val Val Leu Phe
            20                  25                  30
Gly Ile Val Thr Leu Leu His Thr Phe His Leu Phe Arg Thr Arg Thr
        35                  40                  45
Trp Phe Cys Ile Ser Leu Val Ile Gly Gly Tyr Cys Thr Phe
    50                  55                  60

<210> 24373
<211> 190
<212> PRT
<213> A.fumigatus

<400> 24373
Gln Ser His Ile Gly Trp Thr Thr Arg Ile Phe Ala Pro Ile Phe Ala
1               5                   10                  15
Leu Gly Ala Phe Tyr Gly Ile Met His Ser Arg Gly Lys Asp Ser Ala
            20                  25                  30
Phe Asp Met Ser Thr Ala Tyr Thr Ser Leu Ser Leu Phe Ala Leu Leu
        35                  40                  45
Ala Asp Pro Leu Leu Ser Leu Val Met Ala Leu Met Thr Phe Val Gly
    50                  55                  60
Ser Ile Gly Ser Phe Ser Arg Ile Gln Glu Phe Leu Glu Lys Asp Asp
65                  70                  75                  80
His Val Asp Cys Arg Leu Lys Pro Leu His Ala Ser Tyr Glu Ser Phe
                85                  90                  95
Glu Ser Lys Ala Met Val Leu Val Asp Asp Ser Asp Ala Thr Glu Thr
            100                 105                 110
```

```
Ala Ser Asp Arg Ser Ile His Arg Gly Lys Ser Val Tyr His Asp Ala
        115                 120                 125
Leu Thr Val Lys Asn Ala Thr Phe Ala Trp Asn Val Glu Lys Glu Pro
    130                 135                 140
Val Leu Lys Gly Leu Thr Ile Ser Ile Ala Arg Gly Ser Phe Thr Met
145                 150                 155                 160
Ile Val Gly Pro Ser Gly Cys Gly Lys Ser Thr Leu Leu Lys Ala Ile
                165                 170                 175
Leu Gly Leu Tyr His Arg Arg Arg Lys Ser Thr Leu Ser Leu
            180                 185                 190
```

<210> 24374
<211> 112
<212> PRT
<213> A.fumigatus

<400> 24374

```
Val Arg Gln Leu Phe Gln Gln Ser Ser Gln Thr Lys Ser Pro Val Ser
1               5                   10                  15
Val His Thr Ala Thr Gln Ser Lys Met Lys Tyr Leu Ser Leu Ala Val
            20                  25                  30
Ala Phe Leu Pro Leu Leu Ala Ala Ala Ala Pro Ala Ala Asp Pro Glu
        35                  40                  45
Val Glu Ala Asp Gly Glu Leu Asp Leu Glu Lys Arg Ala Ser Ala Gln
    50                  55                  60
Thr Cys Lys Ile Val Asn Val Asp Thr Tyr Val Asn Cys Arg Tyr Asp
65                  70                  75                  80
Ala Lys Leu Asp Ala Gly Ala Ile Phe Gly Phe Pro Lys Gly Glu Lys
                85                  90                  95
Leu Thr Phe Ala Cys Trp Lys His Gly Asp Cys Tyr Asn Gly Val Trp
            100                 105                 110
```

<210> 24375
<211> 148
<212> PRT
<213> A.fumigatus

<400> 24375

```
Gln Ser Val Thr Asn Arg Asn Glu Leu Leu Gly Arg Arg Pro His His
1               5                   10                  15
Ala Ala Thr Pro Glu Asn Pro Tyr Ala Gln Ser Ser Leu Pro Gln Ser
            20                  25                  30
Ser Ser Phe Ala Asn Thr Ser Ser Ser Arg Ser Gly Leu Ser Phe Gly
        35                  40                  45
Ala Ser Pro Ala Asp Tyr Thr Arg Glu Thr His Ala Leu Arg Glu Gln
    50                  55                  60
Ser Phe Phe Ala Asn Thr Asn Ser Gln Leu Asp Glu Phe Leu Asp Arg
65                  70                  75                  80
Gly Arg Ala Val Leu Ala Asp Leu Gly Gln Gln Arg Glu Val Leu Lys
                85                  90                  95
Gly Thr Gln Arg Arg Leu Tyr Ser Val Ala Asn Thr Leu Gly Val Ser
            100                 105                 110
Gly Asp Thr Ile Arg Lys Val Glu Arg Arg Ala Lys Gln Asp Lys Trp
        115                 120                 125
Ile Phe Trp Gly Gly Leu Leu Val Cys Leu Pro Leu Leu Leu Val Gly
    130                 135                 140
```

Tyr Tyr Thr Phe
145

<210> 24376
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24376
Asn Ser Phe Asp Gln Gln Ser Asp Pro Lys Val Glu Asp Gly Leu Ala
1 5 10 15
Asn Thr Thr Lys Gly His Ile Tyr Leu Val Lys Gln Lys Phe Ser Arg
20 25 30
Ser Asn Ile Leu Leu Asn Glu Arg Ser Asn Ser Thr Ile Ile Arg Phe
35 40 45
Pro Ile Tyr Asn Asn Thr Pro Ser Leu Gln Leu Pro Asp Tyr Gly Lys
50 55 60

<210> 24377
<211> 290
<212> PRT
<213> A.fumigatus

<400> 24377
His Leu Ala Val Asn Thr Val Leu Val His Ala Phe Ile Pro Phe Ala
1 5 10 15
Ile His Trp Ala Tyr Val Val Tyr Thr Gly Arg Asn Ile Thr Pro Val
20 25 30
Ala Ala Phe Ile Phe Tyr Ser Thr Ala Phe Lys Ala Ile Gly Ile His
35 40 45
Glu Leu His Ile Leu Arg Arg Leu Gly His Arg Leu Gly Phe Phe Asp
50 55 60
Gly Asp Lys His Glu Arg Asp Gly Val Pro Asp Val Gly Val Ala Lys
65 70 75 80
Val Val Gln Ser Leu Leu Ser Thr Ser Thr Phe Arg Pro Met Phe Thr
85 90 95
Val Phe Leu Ser Tyr Gln Thr Asn Leu Pro Pro Ser Ser Ile Asn Trp
100 105 110
Leu Trp Leu Pro Leu Glu Ile Gly Leu Tyr Gly Ile Val Leu Asp Phe
115 120 125
Trp Phe Tyr Trp Tyr His Arg Leu Met His Asp Ile Gly Ser Leu Trp
130 135 140
Lys Tyr His Arg Thr His His Leu Thr Lys His Pro Asn Pro Leu Leu
145 150 155 160
Thr Leu Tyr Ala Asp Ser Glu Gln Glu Phe Phe Asp Ile Ala Gly Ile
165 170 175
Pro Val Met Thr Tyr Phe Ser Leu Lys Leu Met Gly Leu Pro Met Gly
180 185 190
Phe Tyr Glu Trp Trp Phe Cys His Gln Tyr Val Val Phe Ser Glu Leu
195 200 205
Ala Gly His Ser Gly Val Arg Leu His Thr Phe Thr Pro Ser Thr Leu
210 215 220
Thr Trp Leu Leu Arg Leu Val Asn Ala Asp Leu Val Ile Glu Asp His
225 230 235 240
Asp Leu His His Arg Tyr Gly Trp Lys Ser Ser Tyr Asn Tyr Gly Lys
245 250 255

```
Gln Thr Arg Leu Trp Asp Arg Ile Phe Gly Thr Cys Arg Glu Arg Val
            260                 265                 270
Glu Ser Arg Pro Asp Asn Ile Asp Tyr Asn Asn Lys Val Thr Leu Pro
        275                 280                 285
Leu Trp
    290
```

<210> 24378
<211> 199
<212> PRT
<213> A.fumigatus

```
<400> 24378
Ala Ala Pro Pro Pro Pro Pro Pro Phe Phe Phe Ser Pro Pro Ser Asn
1               5                   10                  15
Gly Gln Asn Leu Thr Arg Pro Gly Gly Ser Gly Ala Asp His Cys Gly
            20                  25                  30
Glu Ile Asp Phe Lys Tyr Gly Cys Pro Leu Pro Glu Gly Ser His His
        35                  40                  45
Met Asp Leu Ser Asp Ile Ala Met Gly Arg Leu Gln Gly Asn Gly Ser
    50                  55                  60
Leu Ala Asp Gly Val Ile Pro Ile Arg Tyr Arg Arg Val Pro Cys Pro
65                  70                  75                  80
Lys Pro Gly Asn Ile Tyr Ile Trp Leu His Asp Gly Ala Gly Pro Tyr
                85                  90                  95
Tyr Phe Ala Leu Ser Ala Val Asn Thr Asn Gly Pro Gly Ser Val Ile
            100                 105                 110
Ser Ile Glu Val Gln Ala Gly Gly Ser Gly Pro Trp Val Ala Leu Glu
        115                 120                 125
His Asp Pro Asn Tyr Thr Ser Ser Arg Pro Gln Glu Arg Tyr Gly Ser
    130                 135                 140
Trp Val Leu Pro Gln Gly Lys Gly Pro Ile Thr Val Pro Val Ser Met
145                 150                 155                 160
Arg Leu Thr Ala Pro Asn Gly Gln Gln Val Val Lys Glu Gly Ala Ile
                165                 170                 175
Thr Ser Tyr Thr Pro Pro Ala Thr Ala Val Glu Gly Phe Trp Tyr Ile
            180                 185                 190
Asp Leu Gly Val Gln Phe Thr
        195
```

<210> 24379
<211> 112
<212> PRT
<213> A.fumigatus

```
<400> 24379
Arg Val Asp Pro Ser Ser Pro Val Val Lys Thr Glu Lys Glu Arg Asp
1               5                   10                  15
Phe Tyr Phe Ala Lys Leu Arg Asp Ile Glu Leu Leu Leu Gln Asn Ala
            20                  25                  30
Ile Glu Ala Asp Pro Glu Leu Glu Lys Asp Glu Asp Ser Leu Val Lys
        35                  40                  45
His Ile Gln Gly Ile Leu Tyr Ser Thr Glu Val Arg Val Cys Asp Ala
    50                  55                  60
Leu Pro Leu Phe Phe Ala Ser Gly Ala Asn Ser Leu Tyr Arg Lys Gly
65                  70                  75                  80
```

```
Leu Arg Ser Gln Leu Lys Arg Arg Ser Ala Met Ser Trp Arg His Ser
                85                  90                  95
Thr Phe Met Ala Lys Asp Val Phe Ser Leu Ile Ile Pro Leu Tyr His
            100                 105                 110

<210> 24380
<211> 407
<212> PRT
<213> A.fumigatus

<400> 24380
Pro Trp Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Pro Pro Ala Thr
1               5                  10                  15
Ser Gly Pro Glu Phe Ser Asn Gln Thr Pro His Thr Ser His Val Asp
            20                  25                  30
Ser His Ala His Leu Ala Thr Ser Gly Tyr Ala Pro Asn Asp Asn Gln
        35                  40                  45
Leu Ala Gly Leu Val Glu Ala Ala Thr Ala Ala Ala Gly Gln Asp Val
    50                  55                  60
Ser Glu Trp Ala Ala Ala Ala Ala Val Ala Ala Ala Ala Gly Ala Ala
65                  70                  75                  80
Gly His Gln His His Leu Asp Ser Tyr Gly Pro Glu Ile His Ile Glu
                85                  90                  95
Asp Asp Gly Phe Gly Asp Gly Ser Phe Gly Ala Gly Met Ser Ala Gly
            100                 105                 110
Arg Gln Leu Arg Gly Ser Gly Ser Ala Ser Val Asn Asp Gln Gly Gln
        115                 120                 125
Ser Ser Gly Leu Ser Arg Ser Val Ser Lys Lys Arg Lys Arg Gly Glu
    130                 135                 140
Asp Ala Leu Asp Pro Ala Leu Thr Ala Ala Gly Gly Val Gly Leu Pro
145                 150                 155                 160
Gly Gly Pro Gln Gln Ser Gln Gln Gln Gln Gln His His Leu Gln Pro
                165                 170                 175
Pro Ser His His Tyr Asp Gly Asp Asn Leu Asp Ile Arg Ala Val Pro
            180                 185                 190
Pro Gln Ser Leu Ser Asp Ala Arg Ala Ala Gly Val His Ser Ala Ala
        195                 200                 205
Ala Leu Phe Arg Gln Pro Ser Ser Asn Lys Lys His Thr Arg Pro Pro
    210                 215                 220
Met Ser Lys Leu Phe Ala Ser Leu Glu Leu Ser Pro Glu Asn Phe Leu
225                 230                 235                 240
His Leu Gln Ala Ala Ala Lys Ala Tyr Met Leu Asp Pro Lys His Pro
                245                 250                 255
Glu Arg Arg Glu Cys Val Gly Gln Arg Gly Lys Gly Asp Thr Glu Met
            260                 265                 270
Val Lys Leu Arg Leu Trp Asn Cys Val Arg His Phe Leu Glu Val Glu
        275                 280                 285
Gly Asn Gly Glu Arg Phe Phe Ser Glu Asn Val Val Asn Glu Gly Met
    290                 295                 300
Gly Pro Arg Ser Tyr Ile Trp Pro Arg Asp Gln Gln Lys Ile Ile Ser
305                 310                 315                 320
Leu Val Ile Pro Leu Ile Arg Arg Met Val Thr Asn Glu Arg Gln Arg
                325                 330                 335
Gln Tyr Ala Val Glu Thr Arg Lys Gly Gly Gly Ala Asp Glu Arg Arg
            340                 345                 350
Arg Arg Lys Thr Asn Glu Ser Phe Gln Thr Phe Thr Thr Ser Ala Ser
```

```
        355                 360                 365
Pro Pro Arg Phe Ser Ser Asp Gly Gln Leu Gln Met His Pro His His
    370                 375                 380
His Met Pro Glu Glu Tyr Ser Ser Tyr Gln Val Pro Ser Leu His His
385                 390                 395                 400
Gly Gly Arg Arg Ile Arg Thr
                405
```

<210> 24381
<211> 123
<212> PRT
<213> A.fumigatus

<400> 24381

```
Glu Glu Arg Lys Leu Leu Phe Lys Leu Asp Thr Ala Ile Leu Thr Phe
1               5                  10                  15
Ala Ser Leu Gly Ser Thr Ser Thr Val Asn Leu Val Ala Lys Leu Thr
            20                  25                  30
Val Met Gln Gly Tyr Phe Ile Lys Tyr Leu Asp Gln Val Asn Ile Asn
        35                  40                  45
Asn Ala Phe Val Ser Gly Met Tyr Val Cys Leu Ala Asp Ile Asp Ile
    50                  55                  60
Asp Pro Leu Thr Gly Tyr Arg Lys Glu Asp Leu Asn Leu Tyr Gly Asn
65                  70                  75                  80
Gln Leu Asn Tyr Met Gln Thr Cys Trp Thr Val Gly Tyr Val Ile Gly
                85                  90                  95
Glu Ile Pro Ser Asn Leu Leu Leu Thr Arg Ile Arg Pro Arg Tyr Trp
            100                 105                 110
Ile Pro Ala Met Glu Val Ser Ala Asp Phe Phe
        115                 120
```

<210> 24382
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24382

```
Cys Pro Val Val Gly Arg Gly Arg Val Val Thr Ala Thr Gly Leu Ala
1               5                  10                  15
Glu Ser Thr Phe Tyr Pro Gly Met Gln Tyr Ile Ile Gly Ser Trp Tyr
            20                  25                  30
Arg Lys Asp Glu Leu Ala Lys Arg Ser Cys Ile Phe His Thr Ser Gly
        35                  40                  45
Gly Ile Ala Ser Met Phe Ser Gly Tyr Leu Met Ala Gly Val Tyr His
    50                  55                  60
Leu Gly Gly Arg Gly Gly Phe Lys Gly Trp Gln Trp
65                  70                  75
```

<210> 24383
<211> 174
<212> PRT
<213> A.fumigatus

<400> 24383

```
Tyr Ala Val Glu Ser Gln Ile Arg His His Asn Leu Asp Pro Lys Asp
1               5                  10                  15
```

```
Ala Met Val Leu Ile Glu Pro Glu Asp Leu Asp Arg Pro Ile Leu Asp
            20                  25                  30
Thr Lys Tyr Ile Leu Arg Val Ile Asp Glu Asn Ala His Ser Thr Ala
        35                  40                  45
Leu Ile Leu Leu Pro Ala Ile Gln Phe Tyr Thr Gly Gln Tyr Phe Asp
    50                  55                  60
Ile Gln Arg Ile Thr Ala His Ala Gln Ser Lys Gly Ile Leu Val Gly
65                  70                  75                  80
Trp Asp Cys Ala His Ala Ala Gly Asn Val Asp Leu Arg Leu His Asp
                85                  90                  95
Trp Asn Val Asp Phe Ala Ala Trp Cys Thr Tyr Lys Tyr Leu Asn Ala
            100                 105                 110
Gly Pro Gly Gly Met Ala Ala Leu Phe Val His Glu Arg His Gly Arg
        115                 120                 125
Val Asp Ile Glu Gln Ala Ala Ser Gly Lys Glu Ala Phe His Pro Arg
    130                 135                 140
Phe Ser Gly Trp Trp Gly Gly Asp Lys Gln Thr Arg Phe Leu Met Asn
145                 150                 155                 160
Thr Arg Met Leu Ser Arg Arg Phe Arg Leu Cys Phe Leu Tyr
                165                 170
```

<210> 24384
<211> 147
<212> PRT
<213> A.fumigatus

<400> 24384

```
Ser Val Ile Leu Ser Leu Leu Leu Thr Gln Ser Leu Arg Arg Met Gly
1               5                   10                  15
Ser Arg Leu His Val Gln Val Ile His Gly Gly Pro Pro Leu Pro Tyr
            20                  25                  30
Lys Asp Asp Ile Arg Ala Phe Gly Lys Glu Tyr Ala Glu Gln Leu Asp
        35                  40                  45
Ala Gln Asp Pro Leu Arg Arg Phe Arg Asp Glu Phe Ile Ile Pro Ser
    50                  55                  60
Lys Lys Asp Leu Lys Arg Lys Thr Leu Phe Pro Asn Asp Gly Met Tyr
65                  70                  75                  80
Ser Cys Gly His Pro Ile Cys Phe Ala Asn Thr Ser Cys Ala Cys Val
                85                  90                  95
His Ala Ala Glu Thr Glu Glu Thr Ser Asp Glu Lys Cys Ile Tyr Leu
            100                 105                 110
Cys Gly Asn Ser Leu Gly Leu Gln Pro Arg Ser Thr Arg Lys Tyr Ile
        115                 120                 125
Asp His Tyr Leu Arg Thr Trp Ala Thr Gln Arg Arg Asn Arg Ser Phe
    130                 135                 140
Cys Ser Ala
145
```

<210> 24385
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24385

```
Lys Glu Arg Leu Cys Ser Gln Thr Met Val Cys Ile Arg Val Asp Thr
1               5                   10                  15
```

```
Pro Phe Ala Ser Leu Ile Gln Ala Val Pro Ala Ser Met Leu Gln Lys
            20                  25                  30
Leu Lys Arg His Pro Met Lys Asn Val Ser Thr Ser Ala Ala Thr Arg
        35                  40                  45
Leu Ala Phe Asn Pro Val Ala Pro Gly Asn Thr Ser Thr Thr Thr Phe
    50                  55                  60
Gly His Gly Gln Pro Lys Gly Val Thr Gly His Phe Val Pro His Glu
65                  70                  75                  80
Ala Gln Leu Leu Pro Pro Phe Val Asp Val Asp Glu Ala Gly Ala Lys
                85                  90                  95
Leu Met Ala Pro Ile Val Gly Ala Leu Lys Ser Glu Val Ala Val Met
            100                 105                 110
Gly Thr Leu Thr Ala Asn Leu His Leu Leu Met Ala Ser Phe Tyr Arg
        115                 120                 125
Pro Thr Pro Glu Arg Asn Lys Ile Ile Ile Glu Gly Lys Ala Phe Pro
    130                 135                 140
Ser Asp His Val Arg Phe Met Asp Leu Ile Ser Ser Ser Lys Leu Cys
145                 150                 155                 160
Gly Gln Ser
```

<210> 24386
<211> 399
<212> PRT
<213> A.fumigatus

<400> 24386

```
Leu Phe Tyr Arg Tyr Leu Arg Arg Ala Ile Gln Trp Gly Cys Glu Tyr
1               5                   10                  15
Ile Asp Val Glu Leu Trp Leu Pro Glu Glu Ile Arg Arg Arg Leu Ala
            20                  25                  30
Glu Gln Lys Gly His Ser Val Ile Met Ser Ala Phe His Asp Phe Ser
        35                  40                  45
Gly Thr Trp Lys Trp Thr Ser Pro Glu Ala Ala Arg Ile Phe Ala Glu
    50                  55                  60
Ser Ala Arg Tyr Ala Asp Ile Val Lys Met Ile Ala Met Val His Thr
65                  70                  75                  80
Ile Glu Ala Asn Tyr Glu Leu Glu Tyr Phe Arg Ser Thr Val Lys Ala
                85                  90                  95
Arg Gly Ala Gly Asp Ser Ser Pro Leu Leu Ser Ala Val Asn Met Gly
            100                 105                 110
Gln Met Gly Gln Leu Ser Arg Ala Leu Asn Thr Val Phe Ser Pro Ile
        115                 120                 125
Thr His Pro Leu Leu Pro Met Ile Ala Ala Pro Gly Gln Leu Thr Ala
    130                 135                 140
Ala Glu Ile Asn Glu Ala Met His Ile Met Gly Ala Leu Pro Lys Arg
145                 150                 155                 160
Asp Leu Tyr Val Ile Gly Ser Phe Arg Ala Thr Pro Gln Ser Met Phe
                165                 170                 175
Met Glu Lys Cys Phe Asn Glu Leu Ser Leu Pro His Thr Leu Thr Ser
            180                 185                 190
Ile Asp Arg Gly Pro Lys Gly Thr Ile Glu Gly Val Ile Met Gln Pro
        195                 200                 205
Ser Phe Gly Gly Ala Ser Val Asn Pro Pro Ile Ser Ala Ala Thr Pro
    210                 215                 220
Tyr Ile Pro Ala Val Ser Glu Ala Ala Arg Ala Ile Gly Leu Val Asp
```

```
225                 230                 235                 240
Thr Ile Val Val Gly Glu Ser Gln Ser Gln Ser Gln Ser Gln Ser Gln
                245                 250                 255
Ser Gln Ser Gln Ser Gln Ser Gln Ser His Pro His Gly Pro Pro Thr
            260                 265                 270
Ala Arg Thr Leu Ile Gly Glu Asn Ala Thr Trp Lys Gly Ile Arg Ala
        275                 280                 285
Thr Leu Thr Arg Asp Tyr Val Pro Ser Ala Tyr Arg Gly Arg Ala Ala
    290                 295                 300
Ile Ile Leu Ala Gly Ser Glu Ser Asp Ala Ser Ala Ala Ile Tyr Ala
305                 310                 315                 320
Leu Arg Ser Leu Gly Val Gly Ser Ile Tyr Thr Val Gly Phe Arg Ala
                325                 330                 335
Thr Gly Pro Leu Ala Ala Gly Leu Glu Pro Phe Thr Ser Ile Gln Ser
            340                 345                 350
Val Lys Leu Val Glu Gln Pro Phe Val Met Val Ser Ala Leu Pro Pro
        355                 360                 365
Glu Lys Ser Leu Leu Val Gln Pro Leu Leu Arg His Tyr Arg Ser Asn
    370                 375                 380
Gly Arg Thr Ser Val Phe Thr Arg Gly Trp Lys Glu Pro Leu Tyr
385                 390                 395
```

<210> 24387
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24387

```
Phe Thr Asn Phe Leu Ile Ala Glu Gln Leu Pro Thr Val Thr Leu Asp
1               5                   10                  15
Phe Ser Thr Arg Asp Ser Gly Ser Thr Gln Glu Ala Ala Asn Cys Ile
            20                  25                  30
Ser Thr Thr Thr Phe Thr Arg Gln Ile Gly Met His Ser Asp Met Val
        35                  40                  45
Ser Ile Ser Ile Ile Asp Ser Arg Ile Ser His Thr Tyr Asn Tyr Leu
    50                  55                  60
Met Asn Ser Thr Val Ser Gln Phe
65                  70
```

<210> 24388
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24388

```
Leu Asn Asn Pro Leu Val Ser Asn Leu Leu Leu Pro Thr Ile Ile Asn
1               5                   10                  15
Arg His Trp Lys Thr Lys Glu Leu Ser Tyr Phe Trp Pro Asn Ile Leu
            20                  25                  30
Glu Asp Thr Ser Ile Lys Gln Tyr Asn Thr Ser Leu Phe Tyr Lys Asn
        35                  40                  45
Met Asn Ile Phe Thr Asn Tyr Ile Lys Asp Ile Ile Asn Tyr Lys Gly
    50                  55                  60
Lys Pro Phe Val Lys Ala Asn Leu
65                  70
```

<210> 24389
<211> 90
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (63),(82)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24389
Lys Leu Arg Leu Ile Asn Ile His Glu Met Thr Leu Ile Ala Tyr Ser
1 5 10 15
Ile Leu Leu Phe Ser Pro Leu Tyr Ile Ile Ser Tyr Ile Ile Ala Tyr
20 25 30
Ser Leu Arg Trp Phe Pro His Gly Gly Arg Phe Pro Ser Leu Val Leu
35 40 45
Pro Phe Ser Ser Ser Phe Ser Thr Gln Ser Ile Val Ser Arg Xaa Asn
50 55 60
Gly Gly Gly Arg Gln Lys Ala Trp Gly Leu Ala Asn Trp Ser Leu His
65 70 75 80
Leu Xaa Arg Tyr His Pro Gly Phe Arg Thr
85 90

<210> 24390
<211> 116
<212> PRT
<213> A.fumigatus

<400> 24390
Thr Asp Gly Pro Phe Gln Pro Arg Gly Glu Asp Asp Ala Gly Arg Lys
1 5 10 15
Val Phe Pro Gly Leu Gly Val Tyr Ser Ala Ser Lys Phe Phe Val Glu
20 25 30
Ala Thr Leu Gln Ser Leu Arg Leu Glu Thr Ala Gly Met Gly Leu Arg
35 40 45
Val Thr Ala Val Gln Pro Gly Asn Thr Ala Thr Asp Leu Leu Gly Met
50 55 60
Ser Thr Asp Ala Glu Ala Ile Lys Lys Tyr Gly Glu Pro Ser Gly Ala
65 70 75 80
Lys Ile Leu Asp Pro Glu Asp Val Ala Asn Ser Ile Val Tyr Ala Leu
85 90 95
Arg Gln Pro Ala His Val Ala Val Asn Glu Val Leu Ile Glu Pro Arg
100 105 110
Asp Glu Pro Ile
115

<210> 24391
<211> 185
<212> PRT
<213> A.fumigatus

<400> 24391
Lys Ile Ile Arg Pro Val Phe Tyr Val Asn Ser Ser Ile Ile Thr Thr
1 5 10 15
Pro Leu Leu Glu Lys Trp Leu Arg Ile Leu Glu Leu Leu Pro Ser Ser

```
            20                  25                  30
Leu Lys Gln Ala Trp Thr Gln Gly Lys Thr Asn Lys Val Trp Glu Ile
        35                  40                  45
Arg Ile Val Arg Leu Val Cys Leu Phe Cys Asp Gly Leu Ser Asp Val
    50                  55                  60
Phe Ala Ala Glu Ala Thr Leu Arg Gln Glu Glu Gln Lys Pro Gly Phe
65                  70                  75                  80
Ser Leu Gln Leu Leu Gln Ile Thr Ala Ser Thr Ser Tyr Pro Tyr Asn
                85                  90                  95
Thr Arg Leu Ala Ser Ala Leu Cys Phe Lys Asn Phe Ile Lys Arg Asn
            100                 105                 110
Trp Thr Asp Glu Asp Gly Asn Tyr Lys Leu Gln Leu Asp Glu Val Ala
        115                 120                 125
Thr Ile Lys Arg Glu Leu Ile Ser Leu Met Ile Ser Val Pro Ala Gly
    130                 135                 140
Ile Gln Ser Gln Leu Gly Glu Ala Val Ser Val Ile Ala Asp Ser Asp
145                 150                 155                 160
Phe Trp Glu Arg Trp Asp Thr Leu Val Asp Val Ser Ser Thr Asn Lys
                165                 170                 175
Tyr Phe Phe Val Val Leu Tyr Leu Tyr
            180                 185
```

<210> 24392
<211> 405
<212> PRT
<213> A.fumigatus

<400> 24392

```
Val Lys Pro Arg Phe Ser Phe Leu Leu His Lys Pro Thr Asp Asp Ser
1               5                   10                  15
Val Glu Ile Ala Val Gly Leu Thr Arg Glu Val Gly Gln His Leu Glu
            20                  25                  30
Glu Met Ser Pro Pro Ile Ala Leu Ala Val Phe Asp Gln Phe Arg Asn
        35                  40                  45
Ile Leu His Glu Ala Asp Ile Asp Lys Arg Val Gln Tyr Met Ile Glu
    50                  55                  60
Val Leu Phe Gln Val Arg Lys Asp Arg Tyr Lys Asp Asn Pro Ala Ile
65                  70                  75                  80
Lys Asp Glu Leu Asp Leu Val Glu Glu Glu Asp Gln Ile Thr His Arg
                85                  90                  95
Ile Gly Leu Asp Asp Glu Ile Asp Thr Gln Asp Gly Leu Asn Val Phe
            100                 105                 110
Lys Tyr Asp Pro Gln Trp Glu Glu His Glu Glu Ala Tyr Lys Lys Leu
        115                 120                 125
Lys Ala Glu Ile Leu Gly Glu Gly Ser Asp Asp Asp Glu Glu Asp Glu
    130                 135                 140
Asp Glu Thr Asp Glu Ser Ser Asp Glu Glu Glu Glu Glu Arg Gln Met
145                 150                 155                 160
Glu Ile Lys Asp Gln Ser Asn Thr Asp Leu Val Asn Leu Arg Arg Thr
                165                 170                 175
Ile Tyr Leu Thr Ile Met Ser Ser Ile Asp Phe Glu Glu Cys Cys His
            180                 185                 190
Lys Leu Met Lys Ile Ser Leu Pro Pro Gly Leu Glu Pro Glu Leu Pro
        195                 200                 205
Ser Met Ile Ile Glu Cys Cys Ser Gln Glu Arg Thr Tyr Ser Lys Phe
    210                 215                 220
```

```
Tyr Gly Leu Ile Gly Glu Arg Phe Ala Lys Ile Asn Arg Leu Trp Ser
225                 230                 235                 240
Asp Leu Phe Glu Ala Ala Phe Ala Lys Tyr Tyr Asp Thr Ile His Arg
                245                 250                 255
Tyr Glu Thr Asn Arg Leu Arg Asn Ile Ala Arg Phe Phe Gly His Met
            260                 265                 270
Leu Ser Thr Asp Ala Ile Gly Trp His Val Met Ser Val Ile His Leu
        275                 280                 285
Asn Glu Asp Glu Thr Thr Ser Ser Ser Arg Ile Phe Ile Lys Ile Leu
    290                 295                 300
Phe Gln Asp Leu Gly Glu His Leu Gly Leu Ala Lys Leu Gln Glu Arg
305                 310                 315                 320
Met Arg Asp Glu Ile Leu Arg Pro Ser Phe Glu Gly Leu Phe Pro Leu
                325                 330                 335
Asp Asn Pro Arg Asn Thr Arg Phe Ser Ile Asn Tyr Phe Thr Ser Ile
            340                 345                 350
Gly Phe Gly Ile Leu Thr Glu Asp Met Arg Glu His Leu Lys Asn Leu
        355                 360                 365
Pro Lys Pro Thr Val Pro Ala Leu Pro Ala Arg Asp Ala Lys Ser Asp
    370                 375                 380
Ser Glu Ser Val Ser Ser His Ser Thr Cys Ser Thr Cys Thr Gly Ser
385                 390                 395                 400
Ser Arg Ser Arg Ser
                405
```

<210> 24393
<211> 241
<212> PRT
<213> A.fumigatus

```
<400> 24393
Met Tyr Gln Asn Gln Phe Gln Lys Tyr Asn Pro Glu Leu Phe Val Glu
1                   5                   10                  15
Ala Asp Val Pro Pro His Val Met Asn Asp Glu Gly Pro Val Val Ala
            20                  25                  30
Pro Trp Val Cys Lys Ala Ala Leu Gln Arg Ser Val Ala Lys Ile Phe
        35                  40                  45
Tyr His Thr Gly Phe Glu Glu Tyr Gln Pro Ser Ala Leu Asp Val Val
    50                  55                  60
Thr Asp Ile Ala Ser Asp Phe Phe Leu Lys Ile Gly Glu Thr Met Lys
65                  70                  75                  80
Ser Tyr Ile Glu Ala Pro Lys Val Pro Pro Thr Glu Thr Ser Ser Ser
                85                  90                  95
Thr Ser Gln Trp Lys Arg Ala Tyr Thr Glu Pro Glu Ile Val Leu His
            100                 105                 110
Thr Leu Ser Ser Val Gly Thr Asp Val Glu Ser Leu Glu Ser Tyr Ile
        115                 120                 125
Lys Asp Asp Val Glu Arg Leu Gly Thr Lys Leu Ala Thr Val His Glu
    130                 135                 140
Arg Met Arg Ser Leu Leu Ser Glu Leu Leu Arg Pro Ala Leu Ala Asp
145                 150                 155                 160
Gly Gly Glu Asp Gly Ser Lys Ala Phe Ala Asp Gly Ser Glu Gln Phe
                165                 170                 175
Ile Gly Gly Asp Phe Ala Glu Asp Ile Asp Glu Asp Phe Phe Gly Phe
            180                 185                 190
Lys Glu Leu Gly Leu Asp Arg Glu Phe Gly Leu Ala Thr Leu Ser Val
```

```
        195                 200                 205
Pro Leu His Leu Leu Gln Asn Arg Met Tyr Asn Ala Ala Gln Ala Gln
    210                 215                 220
Asn Pro Arg Tyr Val Thr Phe Leu Tyr Thr Leu Thr Ala Glu His Trp
225                 230                 235                 240
Ser
```

<210> 24394
<211> 255
<212> PRT
<213> A.fumigatus

<400> 24394

```
Pro Ala Asn Pro Arg Val Pro Lys Ala Ser Gly Lys Arg Val Lys Val
1               5                   10                  15
Leu His Leu Ser Asp Phe His Leu Asp Pro Arg Tyr Ser Val Ser Ser
            20                  25                  30
Glu Gly Asn Cys Ser Ser Gly Leu Cys Cys Ser Asn Asn Asn Phe Asn
        35                  40                  45
Ser Ala Ala Lys Asp Gln Val Leu Ile Ser Ala Pro Ala Tyr Gly Thr
    50                  55                  60
Phe Lys Cys Asp Thr Pro Tyr Asp Leu Gly Leu Ala Ala Leu Gln Ala
65                  70                  75                  80
Ile Gly Pro Leu Thr Gly Thr Gly Lys Gly Lys Asp Gln Asp Ser Leu
                85                  90                  95
Ala Trp Ser Leu Tyr Thr Gly Asp Leu Val Ser His Asp Pro Val Gln
            100                 105                 110
Ala Met Ser Arg Glu Tyr Val Glu Tyr Thr Glu Thr Ser Ile Tyr Gly
        115                 120                 125
Ile Phe Lys Glu Tyr Leu Thr Gly Pro Val Phe Ala Ala Leu Gly Asn
    130                 135                 140
His Asp Thr Ser Pro Glu Asn Ile Asn Ala Pro His Asn Leu Pro Gly
145                 150                 155                 160
Pro Leu Gly Glu Gln Gln Ser Trp Lys Tyr Glu His Val Ala Gly Leu
                165                 170                 175
Trp Lys His Glu Gly Trp Ile Asp Glu Lys Ala Asp Gln Glu Ala Arg
            180                 185                 190
Thr His Tyr Gly Gly Tyr Ser Val Lys Thr His Tyr Gly Leu Arg Ile
        195                 200                 205
Ile Ala Phe Asn Thr Gly Lys Tyr Leu Asp Ile Gly Asn Tyr Ala Arg
    210                 215                 220
Thr Asp Pro Ile Arg Phe Leu Val Arg Glu Lys Leu Leu Gln Gln His
225                 230                 235                 240
Gln Leu Tyr Gln Ser Arg Gln Leu Arg Arg Leu Phe Leu Asp His
                245                 250                 255
```

<210> 24395
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24395

```
Arg Ala Ser Lys Gly Arg Arg Cys Arg Arg Ala Cys Leu Asp His Arg
1               5                   10                  15
Pro Cys Tyr Thr Ala Asp Gly Arg Ala Pro Ile Pro Ser Leu Ile Leu
```

```
            20                  25                  30
Pro Ile Tyr Ser Thr Lys Leu Leu Glu Arg Tyr Ser Pro His Val Ile
        35                  40                  45
Ala Asn Tyr Leu Leu Ser Gly Leu Pro Pro Lys Asn Pro Phe Leu Ile
    50                  55                  60
```

<210> 24396
<211> 151
<212> PRT
<213> A.fumigatus

<400> 24396

```
Pro Gly Leu Ser Leu Leu Arg Trp Gly Thr Thr Ile Gln Ala Leu Arg
1               5                   10                  15
Thr Ser Met Leu Leu Thr Ile Ser Gln Gly Leu Trp Ala Asn Ser Arg
            20                  25                  30
Ala Gly Asn Thr Ser Met Leu Pro Asp Ser Gly Asn Met Lys Asp Gly
        35                  40                  45
Ser Thr Arg Arg Leu Ile Arg Arg Arg Ala His Thr Met Val Asp Thr
    50                  55                  60
Leu Ser Arg Leu Thr Thr Val Cys Ala Leu Leu Arg Leu Ile Leu Val
65                  70                  75                  80
Ser Thr Trp Ile Ser Ala Ile Met Arg Gly Leu Thr Leu Ser Asp Phe
                85                  90                  95
Trp Tyr Ala Lys Asn Tyr Phe Asn Asn Ile Asn Ser Thr Asn Pro Asp
            100                 105                 110
Asn Ser Gly Val Phe Ser Trp Ile Ile Asp Glu Leu Gln Lys Ala Glu
        115                 120                 125
Asp Ala Gly Glu Arg Val Trp Ile Ile Gly His Val Ile Gln Arg Met
    130                 135                 140
Gly Gly Leu Gln Phe Pro Pro
145                 150
```

<210> 24397
<211> 331
<212> PRT
<213> A.fumigatus

<400> 24397

```
Phe Ile Gln Phe Val Glu Arg Pro His Met Gln Lys Leu Tyr Gly Arg
1               5                   10                  15
Ser Leu Arg Arg Asp Ala Gly Leu Thr Lys Ser Leu Lys Arg Ser Leu
            20                  25                  30
Leu Pro Ser Leu Gln Gln Leu His Gly Ser Val Asp Lys Ile Phe Asp
        35                  40                  45
Glu Ser Phe Glu Phe Ile Glu Glu Leu Ile Asp Thr Ala Arg Pro Lys
    50                  55                  60
Leu Ala Ala Gly Val Asn Thr Phe Val Lys Asp Thr Ser Ala Leu Phe
65                  70                  75                  80
Gln Lys Tyr Pro Ala Arg Val Thr Ile Ser Arg Ile Asp Glu Asp Leu
                85                  90                  95
Ala Gly Tyr Asp Leu Arg Asp Tyr Ser Leu Glu Ile Glu Gly Thr Asp
            100                 105                 110
Ser Leu Ser Pro Asn Asp Asn Asp Gln Ser Gly Arg Glu Gly Ala Asn
        115                 120                 125
Ala Arg Met Pro Leu Asp Arg Arg Gly Asp Leu Lys Asn Leu Val Phe
```

```
    130                 135                 140
Glu Tyr Gly Ser Pro Ile Lys Val Lys Trp Thr Ala Pro Leu Asn His
145                 150                 155                 160
Ser Lys Lys Asp Trp Ile Gly Leu Tyr Arg Val Thr Asp Asn Thr Ser
                165                 170                 175
Arg Glu Val Thr Arg Val Ser Ser Gln Gly Arg Trp Ile Ala Val Asn
            180                 185                 190
Glu Gly Ser Tyr Asp Asn Leu Thr Cys Glu Lys Gly Ile Val Ser Ser
        195                 200                 205
Asp Ile Leu Ile Pro Ala Ser Gln Arg Lys Asp Asn Glu Asn Arg Asp
    210                 215                 220
Leu Ala Ser Gly Glu Val Ile Phe Ser Gly Asp Lys Leu Phe Trp Thr
225                 230                 235                 240
Gln Gly Val Phe Glu Phe Arg Tyr His His Asn Gly Lys His Asn Val
                245                 250                 255
Met Ala Ile Ser Arg Pro Phe Glu Ile Arg Ile Ser Arg Phe Asp Glu
            260                 265                 270
Asp Glu Ile Pro Leu Met Asn Pro Thr Ser Val Glu Leu Ser Leu Phe
        275                 280                 285
Pro Val Val Arg Asn Cys Leu Asp Arg Asp Pro Gln Ile Ala Pro Glu
    290                 295                 300
Thr Val Asp Glu Pro Phe Gly Gly Leu Val Glu Arg Asp Gly Lys Tyr
305                 310                 315                 320
Ala Lys Arg Val Val Phe Ala Val His Gln Met
                325                 330
```

<210> 24398
<211> 154
<212> PRT
<213> A.fumigatus

<400> 24398

```
Val Ser Ser Lys Thr Lys Met Lys Leu Ala Val Phe Ser Ala Lys Ser
1               5                   10                  15
Tyr Asp Lys Leu Phe Leu Asp Ser Ser Leu Glu Lys Asp Tyr Ala Ser
            20                  25                  30
Phe Cys Glu Ile Val Tyr His Ser Phe Ala Leu Ser Ser Glu Thr Val
        35                  40                  45
Ser Leu Ala Lys Gly Ser Asp Ala Val Cys Ala Phe Val Asn Asp Thr
    50                  55                  60
Leu Asp Ala Pro Val Leu Lys Ser Leu His Arg Tyr Gly Ile Arg Ala
65                  70                  75                  80
Ile Leu Leu Arg Cys Ala Gly Phe Asn Asn Val Asp Leu Gln Val Ala
                85                  90                  95
Glu Glu Leu Gly Phe Phe Val Ala Asn Val Pro Ser Tyr Ser Pro Glu
            100                 105                 110
Ala Val Ala Glu Phe Ala Val Ala Leu Ile Gln Thr Leu Asn Arg Lys
        115                 120                 125
Thr His Arg Ala Tyr Asn Arg Val Arg Glu Gly Asn Phe Asn Leu Glu
    130                 135                 140
Gly Phe Leu Gly His Thr Leu His Gly Lys
145                 150
```

<210> 24399
<211> 109
<212> PRT

<213> A.fumigatus

<400> 24399
Ser Gly Gly Pro Val Ala Asn Phe Lys Ser Ala Thr Arg Ile Ser Asp
1 5 10 15
Gln Ile Gln Ser Met Leu Arg Glu Ala Gly Leu Lys Val Ala Thr Gln
20 25 30
Lys Tyr Glu Tyr Thr Ser Ser Gly Ile Thr His Glu Gly Gln Asn Val
35 40 45
Tyr Ala Ile Ile His Ala Pro Arg Gly Asp Ala Thr Glu Ala Ile Val
50 55 60
Leu Val Ala Ala Trp Lys Thr Ala Asp Gly Glu Leu Asn Leu Asn Gly
65 70 75 80
Val Ser Leu Ala Leu Thr Leu Ala Arg Tyr Phe Lys Arg Gly Ser Ile
85 90 95
Leu Val Thr Met Val Glu Glu Gly Ser Phe Lys Pro Cys
100 105

<210> 24400
<211> 208
<212> PRT
<213> A.fumigatus

<400> 24400
Arg Arg Ser Ser Leu Gly Trp Ser Leu Trp Ser Lys Asp Ile Ile Phe
1 5 10 15
Leu Phe Pro Pro Asp Ser Lys Ser Gly Thr Gln Ala Trp Ile Asp Ala
20 25 30
Tyr His Asp Met Gln Thr Ser Ser Val Gln Pro Leu Pro Leu Lys Ser
35 40 45
Gly Ala Leu Gln Gly Gly Leu Val Ile Glu Tyr Pro Phe Asp His Arg
50 55 60
Phe Glu Ser Leu His Ile Val Tyr Asp Gly Val Asn Gly Gln Leu Pro
65 70 75 80
Asn Leu Asp Leu Phe Asn Thr Ala Ile Ser Ile Ala Gly Gly Gln Met
85 90 95
Gly Ile Gly Thr Ser Leu Gln Glu Met Trp Glu His Asp Asp Ser Tyr
100 105 110
Gln Lys Arg Leu Gln Thr Ile Ile Arg Gly Met Val Lys Gln Gly Leu
115 120 125
Gly His Ala Thr Gly Ala His Ser Ser Phe Met Pro Tyr His Ile Asp
130 135 140
Ala Ile Thr Leu Gln Thr Lys Gly Asp Gly Trp Gln Asp Glu Met Ala
145 150 155 160
Leu Gly Arg Thr Val Glu Ser Leu Cys Arg Ser Leu Asn Asn Leu Leu
165 170 175
Glu His Leu His Gln Ser Phe Phe Phe Tyr Leu Leu Met His Thr Asn
180 185 190
Arg Phe Val Ser Ile Val Phe Thr Pro Gly Pro Glu Gly Asn Ala Tyr
195 200 205

<210> 24401
<211> 90
<212> PRT
<213> A.fumigatus

<400> 24401
Ser Gly Asn Gln Gly Ile Gln Ser Phe Ala Phe Trp Ser Arg Leu Asp
1 5 10 15
Cys Glu Tyr Glu Arg Pro Arg Ser Cys Arg Tyr Ala Leu Arg Tyr Phe
20 25 30
Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Ile Trp Leu Leu Ser
35 40 45
Asn Phe Thr Ser Asp Met Asp Lys Leu Val Ser Ile Lys Gly Leu Val
50 55 60
Ile Arg Thr Thr Pro Ile Ile Pro Asp Met Lys Glu Gly Thr Ile His
65 70 75 80
Leu Leu Asp Ile His Leu Ile Arg Leu Ser
85 90

<210> 24402
<211> 171
<212> PRT
<213> A.fumigatus

<400> 24402
Ser Thr Glu Gly Thr Gly Ile His Gln His Val Glu His His Gly Gln
1 5 10 15
Leu Glu Val Thr Ser Leu Asn Leu Asp Ala Lys Asn Leu Lys Ala Tyr
20 25 30
Pro Ser Thr Leu Lys Leu Trp His Gln Leu His Ala Tyr Pro Gln Glu
35 40 45
Ile Ile Pro Leu Met Asp Gln Thr Val Lys Asp Val Met Val Glu Leu
50 55 60
Ala Ile Lys Glu Met Glu Arg Leu Arg Ala Gln Asn Gln Arg Asn Gln
65 70 75 80
Asn His Asn Arg Gly Leu Ser Ser Gly Pro Ala Val Pro Ser Ser Asp
85 90 95
Ala Leu Ser Glu Thr Gly Arg Met Pro Gln Asn Glu Ile Pro Asp Leu
100 105 110
Val Gly Glu Val Glu Thr Lys Ala Phe Lys Val Leu Pro Phe Gly Leu
115 120 125
Asp Ser Thr Val Asn Met Arg Asp Leu Asp Pro Ala Gly Met His Tyr
130 135 140
Asp Ile Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Ser Phe Gly
145 150 155 160
Phe Cys Leu Thr Leu Leu Gln Thr Trp Ile Asn
165 170

<210> 24403
<211> 100
<212> PRT
<213> A.fumigatus

<400> 24403
Leu Ile Phe Pro Ala Phe Phe Arg Cys Gln Val Cys Asn His Gly Val
1 5 10 15
Gln Val Asp Ile Asp Arg Gly Lys Ile Ala Glu Pro Thr Glu Cys Pro
20 25 30
Arg Pro Val Cys Lys Glu Arg Asn Ser Met Gln Leu Ile His Asn Arg
35 40 45
Cys Val Phe Ala Asp Lys Gln Val Ile Lys Leu Gln Glu Thr Pro Asp

```
    50                  55                  60
Ser Ile Pro Asp Gly Gln Thr Pro His Ser Val Ser Leu Cys Val Tyr
65                  70                  75                  80
Asp Glu Leu Val Asp Val Ser Ser Pro Arg Gly Trp Lys Glu Pro Leu
                85                  90                  95
Asn Gly His Ser
            100
```

<210> 24404
<211> 122
<212> PRT
<213> A.fumigatus

<400> 24404

```
Gln Gly Leu Val Lys Met Pro Val Thr Ala Tyr Pro Ile Tyr Leu His
1               5                   10                  15
Leu Cys Gly Ser Ile His Phe Glu Leu Leu Val Leu Glu Arg Arg Gln
            20                  25                  30
Lys Asp Gln Leu Ala Gly Ile Glu Asn Gln Val Leu Lys Thr Leu Trp
        35                  40                  45
Met Val Leu Met Cys Tyr Phe Ile Phe Phe His Ile Leu Cys Phe Leu
    50                  55                  60
Val Val Val Leu Trp Ile Trp Leu Thr Pro Val Phe Gly Gln Ser Val
65                  70                  75                  80
Met Val Asp Gly Val Lys Thr Phe Arg Trp Glu Leu Phe Thr Ala Gly
                85                  90                  95
Ser Ser Phe Lys Val Leu Gly Tyr Thr Leu Thr Pro Asp Thr Met Val
            100                 105                 110
Ser Phe Lys Asn Ala Ala Phe Pro Ser Thr
        115                 120
```

<210> 24405
<211> 323
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (276)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24405

```
Leu Gly Lys Arg Thr Leu Leu Tyr Ser Thr Ala Glu Val Leu Thr Thr
1               5                   10                  15
Pro Val Phe Glu Asn Arg Leu Thr Leu Val Leu Trp Val Pro Thr Gly
            20                  25                  30
Glu Ser Gly Glu Phe Ala Ile Lys Gly Ala Lys Ser Gly Lys Val Glu
        35                  40                  45
Asn Gly Asp Gly Cys Ser Gly Ile Lys Phe Lys Arg Glu Lys Asp Tyr
    50                  55                  60
Leu Val Val Asn Phe Ser Gln Ala Lys Gly Leu Ser Val Leu Arg Leu
65                  70                  75                  80
Asp Asn Gly Val Arg Val Val Leu Leu Asp Lys Ala Ala Ala Tyr Arg
                85                  90                  95
Phe Trp Ala Pro Ala Leu Thr Asp Asp Pro Asn Val Gln Glu Thr Glu
            100                 105                 110
```

```
Thr Gly Glu Cys Thr Ser Tyr Arg Val His Cys Arg Phe Ile Leu Met
        115                 120                 125
Val Thr Val Leu Val His Gly Pro Tyr Leu Val Arg Ser Ala Ser Ile
    130                 135                 140
Ser Lys Thr Thr Leu Ala Leu Arg Gly Asp Ser Val Glu Lys Thr Thr
145                 150                 155                 160
Leu Glu Ile Phe Ala Pro His Ser Val Arg Lys Ile Thr Trp Asn Gly
                165                 170                 175
Lys Glu Val Gln Thr Ser His Thr Pro Tyr Gly Ser Leu Lys Ala Thr
            180                 185                 190
Leu Ala Ala Pro Pro Asp Ile Lys Leu Pro Ala Leu Thr Ser Trp Arg
        195                 200                 205
Ser Asn Asp Ser Leu Pro Glu Arg Leu Pro Ser Tyr Asp Asp Ser Gly
    210                 215                 220
Pro Ala Trp Ile Gly Arg Leu Asp Pro Ile Tyr Lys Thr Trp Pro Asn
225                 230                 235                 240
Leu Ile Arg Ser Thr Glu Ala Asn His Met Thr Thr Ser Asn Pro Ser
                245                 250                 255
Pro Pro Ala Thr Phe Pro Val Leu Tyr Ala Asp Glu Tyr Gly Met Ser
            260                 265                 270
Thr Pro Val Xaa Pro Ile Tyr His Trp Phe Asn Pro His Thr Ser Phe
        275                 280                 285
His Asn Gly Val Arg Leu Trp Arg Gly Tyr Phe Asn Gly Ser Ala Ser
    290                 295                 300
Gly Val Ser Leu Asn Asn Pro Arg Arg Lys Arg Leu Gly Thr Ser Leu
305                 310                 315                 320
Ser Pro Ser
```

<210> 24406
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24406

```
Thr Gly Lys Leu Phe Ser Thr His Leu Leu Asp Phe Thr Asp Ile Ile
1               5                   10                  15
Gln Gly Leu Ala Asp Val Arg Gly Leu Ser Pro Arg Glu Arg Ala Arg
            20                  25                  30
Val Ile Ile Lys Gln Cys Ala His Pro Asp Tyr Gln Pro Ile Leu Thr
        35                  40                  45
Asp Tyr Leu Asp Arg Ala Glu Tyr Glu Cys Leu Lys Lys
    50                  55                  60
```

<210> 24407
<211> 318
<212> PRT
<213> A.fumigatus

<400> 24407

```
Arg His Ile Thr Met Ser Glu Val Pro Pro Arg Arg Lys Pro Tyr Leu
1               5                   10                  15
Ile Met Gln Pro Glu Asp Arg Ile Gly Thr Pro His Ile Pro Val Asp
            20                  25                  30
Pro Glu Lys Val Val Ala Ile Val Glu Ser Asp Tyr Pro Asp Gln Thr
        35                  40                  45
```

```
Gln Pro Asn Ala Pro Glu Asp Ala Thr Ser Gln Ala Ile Ala Ser Asn
    50                  55                  60
Leu Ile Glu Phe Leu Lys His Glu Val Arg His Gly Arg Leu Pro Gln
65                  70                  75                  80
Asn Leu Leu Pro Ile Gln Ser Gly Ile Gly Asn Ile Ala Asn Ala Val
                85                  90                  95
Ile Gly Gly Leu Ser Lys Gly Gly Ala Asp Phe Thr Asn Leu Lys Val
            100                 105                 110
Trp Thr Glu Val Leu Gln Asp Ser Phe Leu Asp Leu Phe Asp Ser Gly
        115                 120                 125
Asn Leu Asp Phe Ala Thr Ala Thr Ser Ile Arg Phe Ser Pro Asp Gly
    130                 135                 140
Phe Lys Arg Phe Tyr Asp Asn Trp Glu His Tyr Ala Gly Lys Leu Leu
145                 150                 155                 160
Leu Arg Ser Gln Gln Val Ser Asn Ser Pro Glu Ile Ile Arg Arg Ile
                165                 170                 175
Gly Cys Ile Gly Met Asn Thr Pro Val Glu Val Asp Ile Tyr Ala His
            180                 185                 190
Ala Asn Ser Thr Cys Val Met Gly Ser Arg Met Leu Asn Gly Leu Gly
        195                 200                 205
Arg Ser Ala Asp Phe Leu Arg Asn Ser Lys Tyr Ser Ile Met His Thr
    210                 215                 220
Pro Ser Thr Arg Pro Ser Lys Val Asp Pro Thr Gly Val Ser Cys Ile
225                 230                 235                 240
Val Pro Phe Cys Thr His Ile Asp Gln Thr Glu His Asp Leu Asp Val
                245                 250                 255
Val Val Thr Glu Gln Val Ser Tyr Ser Gln Pro Ile Tyr Trp Thr Leu
            260                 265                 270
Leu Thr Leu Ser Arg Val Ser Pro Thr Tyr Val Val Cys Leu Pro Val
        275                 280                 285
Ser Val Leu Val Ser Ser Ser Ser Ser Ala Pro Thr Pro Thr Thr Ser
    290                 295                 300
Pro Ser Leu Gln Thr Thr Trp Thr Ala Leu Asn Thr Ser Ala
305                 310                 315
```

<210> 24408
<211> 282
<212> PRT
<213> A.fumigatus

```
<400> 24408
Ser Pro Ile Asp Gly Leu Arg Ile Ala Tyr Leu Phe Ser His Asn His
1               5                   10                  15
Ile Gln Ile Val Leu Ser Leu Ile Asn Val Ser Ala Glu Arg His Asn
            20                  25                  30
Ala Ala Asp Thr Gly Arg Ile Asn Leu Ala Gly Ala Gly Thr Gly Gly
        35                  40                  45
Val His Asp Thr Val Leu Gly Ile Ala Glu Glu Val Gly Arg Ser Ser
    50                  55                  60
Gln Thr Ile Glu His Pro Arg Ala His Asp Thr Gly Ala Val Gly Met
65                  70                  75                  80
Gly Ile Asp Ile His Leu Asp Gly Ser Val His Ala Asp Thr Ser Asp
                85                  90                  95
Thr Ala Asp Asp Leu Arg Arg Val Gly Asn Leu Leu Arg Thr Gln Gln
            100                 105                 110
Lys Leu Ala Gly Ile Val Leu Pro Val Ile Val Glu Pro Leu Glu Ser
```

```
        115                 120                 125
Val Gly Gly Glu Pro Asp Gly Gly Gly Arg Gly Lys Val Gln Val Ser
    130                 135                 140
Arg Val Lys Lys Ile Gln Glu Gly Ile Leu Gln His Leu Ser Pro His
145                 150                 155                 160
Leu Glu Val Gly Lys Val Gly Thr Ala Leu Ala Gln Ala Thr Asn Asp
                165                 170                 175
Arg Val Gly Asp Val Ser Asn Thr Gly Leu Asp Gly Glu Gln Val Leu
            180                 185                 190
Gly Gln Thr Ala Met Pro Asp Leu Val Leu Gln Lys Leu Asn Lys Val
        195                 200                 205
Ala Gly Asn Gly Leu Arg Gly Cys Ile Leu Gly Ser Val Gly Leu Arg
    210                 215                 220
Leu Ile Arg Val Val Arg Leu Asp Asn Gly Asp Asp Leu Leu Arg Val
225                 230                 235                 240
Asp Gly Asp Met Trp Ser Ser Asn Ala Val Leu Gly Leu His Asp Gln
                245                 250                 255
Val Arg Leu Pro Ala Arg Arg Asn Leu Arg His Gly Asp Val Ser Ser
            260                 265                 270
Pro Gly Ala Gly Arg Thr Ala Ala Cys Ala
        275                 280
```

<210> 24409
<211> 83
<212> PRT
<213> A.fumigatus

<400> 24409

```
Pro Pro Trp Arg Asp Ala Asp Gly Asp Tyr Gly Gln Lys Ser Gly Gln
1               5                   10                  15
Pro Gln Arg Tyr Phe Cys Gln Lys Ser Ala Val Ser Ala His Ile Val
            20                  25                  30
Cys Asp His Ile Phe Glu Gly Ser Lys Gly Gly Lys Met Val Cys Val
        35                  40                  45
Leu Ala Leu Ile Ile Asn Gln Asp Val Asp Thr Gly Ala Ile Lys Ala
    50                  55                  60
Ile Lys Lys Thr Arg Leu His Ile Ile Gly Leu His Arg Gly Leu Lys
65                  70                  75                  80
Gly Thr Gln
```

<210> 24410
<211> 145
<212> PRT
<213> A.fumigatus

<400> 24410

```
Cys Pro Pro Gly Ala Val Asp Tyr Ile Phe Gly Asp Ala Ser Ala Trp
1               5                   10                  15
Phe Gly Glu Cys Glu Leu Val Ser Val Gly Pro Gly Tyr Ile Thr Ala
            20                  25                  30
Met Ser Arg Thr Thr Ala Asp Glu Thr Thr Trp Tyr Ala Ile Asp His
        35                  40                  45
Cys Asn Ile Tyr Gly Lys Pro Gly Val Asp Leu Thr Ser Ala Val Tyr
    50                  55                  60
Leu Gly Arg Pro Trp Arg Val Leu Ala Arg Val Ile Phe Gln Asn Ser
```

```
65                  70                  75                  80
Gln Leu Ser Asn Ile Ile Asn Pro Lys Gly Trp Ser Pro Met Ala Thr
                85                  90                  95
Gly Ala Thr Pro Leu Tyr Tyr Glu Tyr Asn Asn Lys Gly Ala Gly Ala
            100                 105                 110
Asp Thr Ser Lys Arg Glu Tyr Glu Ser Pro Ile Ser Gly Ala Val Ser
        115                 120                 125
Ile Ala Thr Val Leu Gly Gly Gly Trp Asn Ser Trp Val Asp Thr Thr
    130                 135                 140
Tyr
145
```

<210> 24411
<211> 187
<212> PRT
<213> A.fumigatus

<400> 24411

```
Pro Pro Pro Pro Pro Pro Pro Phe Pro Gly Leu Leu Glu Asp Glu Gln
1               5                   10                  15
Ser Phe Val Arg Thr Ser Arg Arg Pro Glu Gln Pro His Cys Arg Leu
            20                  25                  30
Leu Thr Ser Gly Thr Arg Met Tyr Leu Pro Ser Leu Val Leu Gly Leu
        35                  40                  45
Leu Gly Phe Gly Leu Thr Ala Ser Thr Ser Pro Ile Glu Glu Arg Ser
    50                  55                  60
Asn Arg Ser Lys Ala Pro Ala Gly Cys Leu Thr Val Gly Ser Ser Gly
65                  70                  75                  80
Thr Tyr Ala Thr Ile Gly Ala Ala Leu Ser Ala Leu Gly Ser Ser Thr
                85                  90                  95
Ser Asp Ala Cys Ile Phe Ile Gly Ala Gly Thr Tyr Gln Glu Gln Ile
            100                 105                 110
Thr Ile Asp Tyr Lys Gly Lys Leu Thr Met Tyr Gly Glu Thr Thr Asp
        115                 120                 125
Thr Ser Ser Tyr Lys Gln Asn Leu Val Thr Ile Thr His Ser Ile Ser
    130                 135                 140
Ser Pro Glu Ala Gly Ser Leu Asp Lys Ser Ala Thr Val Asn Val Arg
145                 150                 155                 160
Ser Asp Gly Phe Lys Met Tyr Asn Ile Asn Val Ile Asn Gly Tyr Gly
                165                 170                 175
Lys Gly Ala Gln Ala Val Thr Tyr Val Val Leu
            180                 185
```

<210> 24412
<211> 225
<212> PRT
<213> A.fumigatus

<400> 24412

```
Pro Leu Arg Arg Arg Val Ala Asp Arg Asp Met Leu Gly Ser Ser Pro
1               5                   10                  15
Met Pro Thr Asn Leu Ala Ser Thr Asp Ala Val Leu Ser Ala Thr Lys
            20                  25                  30
Thr Leu Ser Thr Pro Arg Pro Val Val Asn Thr Thr Leu Thr Ala Thr
        35                  40                  45
Ser Arg Val Gly Ser Phe Pro Pro Pro Ser Ile His Ala Ser Pro Ala
```

```
    50                  55                  60
Tyr Ala Asn Val Leu Gln Glu Pro Leu Thr Thr Ser Ser Val Thr Pro
65                  70                  75                  80
Arg Pro Gly Ser Ala Asn Ala Asn Ser Cys Pro Ser Ala Pro Ala Thr
                85                  90                  95
Leu Pro Pro Cys Arg Ala Arg Arg Arg Thr Arg Pro Pro Gly Thr Arg
            100                 105                 110
Ser Thr Thr Ala Thr Ser Thr Gly Ser Pro Ala Ser Ile Leu Pro Ala
        115                 120                 125
Arg Cys Thr Leu Val Gly Leu Gly Val Cys Leu Pro Val Ser Ser Ser
    130                 135                 140
Lys Ile Pro Ser Cys Arg Thr Ser Ser Thr Pro Arg Ala Gly Ala Pro
145                 150                 155                 160
Trp Gln Arg Gly Pro His Arg Phe Thr Met Ser Thr Ile Thr Arg Val
                165                 170                 175
Leu Glu Arg Ile Pro Arg Arg Glu Ser Thr Ser Leu Pro Ser Leu Val
            180                 185                 190
Leu Leu Ala Ser Pro Arg Phe Leu Ala Ala Val Gly Thr Ala Gly Leu
        195                 200                 205
Ile Pro Arg Ile Lys Ser Arg Trp Trp Ala Gly Arg Phe Ala His Gly
    210                 215                 220
Cys
225
```

<210> 24413
<211> 69
<212> PRT
<213> A.fumigatus

```
<400> 24413
Pro Lys Pro Val Arg Trp Ser Arg Pro Pro Gly Glu Asp Leu His Asp
1               5                   10                  15
Pro Ser Asp Phe Ser Asp Thr His Phe Val Ser Val Asn Thr Ile Val
            20                  25                  30
Phe Tyr Val Lys Ile Asn Ser Tyr Arg Trp Thr Gln Pro Cys Met Lys
        35                  40                  45
Arg Pro Arg Ala Leu Ala Ile Trp Ser Glu Ser Ser Pro Arg Gly Trp
    50                  55                  60
Lys Glu Thr Arg His
65
```

<210> 24414
<211> 291
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (251),(260),(263)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24414
Val Cys Asn Ser Val Gly Ser Arg Phe Ser Ser His Gly Ile Leu Ser
1               5                   10                  15
Val Asp Leu Ala Leu Ala Ser Ser Val Val Ser Leu Ile Ile Arg Ile
            20                  25                  30
```

```
Cys Val Gln Ile Glu His Thr Ser Gly Ser Phe Thr Arg Leu Lys Ser
        35                  40                  45
Gln Ser Gln Arg Thr Glu Leu Leu Gln Leu Ala Asp Gln Thr Val Asn
    50                  55                  60
Ile Leu His Leu Thr Ala Ala Leu Ala Arg Arg Arg Phe Cys His Gly
65                  70                  75                  80
Gln His Pro Leu Cys Ile Thr Thr Arg Glu Lys Arg Arg Lys Pro Thr
                85                  90                  95
Ser Asn Leu Asn Cys Leu Gln Pro Pro Leu Ile Leu Asn Pro Glu Ile
            100                 105                 110
Leu Gln Leu Leu Leu Leu Lys Arg Leu Leu Leu Arg Leu His Asp Val
        115                 120                 125
Arg Gln Thr Ser Ile Pro Arg Leu Val Gln Pro Gln Ile Arg Arg Asn
    130                 135                 140
Asn His Gly Gln Leu Ser Thr Gln Arg Leu Asn Thr Pro Ile His Leu
145                 150                 155                 160
Val Ser His Leu His Arg Ala Leu Val Val Leu Asp Leu Asp Leu Ala
                165                 170                 175
Arg Leu Arg Arg Leu Arg Pro Pro Gln Gln Thr Arg Gln His Leu Ala
            180                 185                 190
Arg Leu Pro Leu Val Thr Val Asn Arg Leu Leu Pro Pro Glu His Gln
        195                 200                 205
Val Asp Val Leu Leu Leu His His Cys Leu Gln His Leu Asn His Gly
    210                 215                 220
Gln Arg Leu His Ala Pro Val Ile Ala Ile Gly Asp Leu Asp Val Glu
225                 230                 235                 240
Arg Pro Gly Pro Arg Pro Leu Pro Met Leu Xaa Gly Ala Tyr Gln Arg
                245                 250                 255
Thr Trp Leu Xaa Gln Arg Xaa Ser Ala Lys Ile Phe Phe Asp Phe Gln
            260                 265                 270
Gly Gly Pro Cys Ala Ser Arg Glu Ala Gly Arg Pro Ser Leu Ile Glu
        275                 280                 285
Arg Leu Asn
    290
```

<210> 24415
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24415

```
Phe Arg Ser Lys Ser Asn His Lys Asn Met Arg Thr Asp Arg Ala Tyr
1               5                   10                  15
Val Trp Leu Ile Tyr Thr Ile Glu Ile Thr Ile Thr Ala His Arg Ala
            20                  25                  30
Pro Ser Ala Cys Arg Ser Asp Arg Gln His Pro Pro Pro Tyr Arg Arg
        35                  40                  45
Pro Gly Ala Gln Glu Val Leu Ser Trp Ser Ala Ser Ala Leu His Tyr
    50                  55                  60
Asn Lys Gly Lys Lys Lys Lys Thr Tyr Gln
65                  70
```

<210> 24416
<211> 249
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (37),(40),(49)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24416
Gln Ala Phe Pro Ser Thr Pro Leu Ile Lys Ser Leu Asp Gln Gly Arg
1 5 10 15
Pro Ser Arg Leu Pro Arg Gly Ala Arg Ala Pro Leu Lys Val Glu Lys
20 25 30
Asn Leu Gly Thr Xaa Pro Leu Xaa Lys Pro Ser Ala Leu Ile Arg Ser
35 40 45
Xaa Gln His Gly Gln Trp Ala Arg Thr Gly Pro Phe His Val Glu Val
50 55 60
Pro Asp Ser Asn Asp Gly Gly Met Glu Pro Leu Thr Val Val Lys Met
65 70 75 80
Leu Gln Ala Val Val Lys Gln Glu Asn Ile Asn Leu Val Leu Trp Gly
85 90 95
Lys Gln Ala Ile Asp Gly Asp Gln Gly Gln Thr Gly Gln Met Leu Pro
100 105 110
Gly Leu Leu Gly Trp Pro Gln Ala Thr Gln Ala Ser Lys Val Glu Ile
115 120 125
Lys Asp Asp Lys Gly Thr Val Glu Val Thr His Glu Val Asp Gly Gly
130 135 140
Val Glu Thr Leu Arg Ala Gln Leu Pro Met Val Ile Thr Thr Asp Leu
145 150 155 160
Arg Leu Asn Glu Pro Arg Tyr Ala Ser Leu Pro Asn Ile Met Lys Ala
165 170 175
Lys Lys Lys Pro Leu Glu Lys Lys Lys Leu Glu Asp Phe Gly Val Glu
180 185 190
Asp Lys Arg Arg Leu Lys Thr Ile Lys Val Thr Gly Arg Phe Ser Ser
195 200 205
Phe Phe Pro Cys Cys Asn Ala Glu Arg Met Leu Thr Met Thr Glu Pro
210 215 220
Pro Ala Arg Gln Gly Gly Gly Lys Val Glu Asp Val Asp Gly Leu Ile
225 230 235 240
Gly Lys Leu Lys Glu Leu Gly Ala Leu
245

<210> 24417
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24417
Lys Val Gly Trp Ile Cys Leu Tyr Asn Phe Ser Lys Tyr Lys Val Tyr
1 5 10 15
Ile Tyr Phe Pro Ile Ile Val Ile Ile Ser Asn Ser Leu Leu Tyr Leu
20 25 30
Leu Leu Ser Phe Leu Tyr Arg Tyr Tyr Ile Leu Lys Phe Phe Asn Lys
35 40 45
Ser Ser Thr Phe Ser Leu Ile Glu Asn Lys Met Ser
50 55 60

<210> 24418

<211> 86
<212> PRT
<213> A.fumigatus

<400> 24418
Glu Thr Leu Ile Thr Lys Tyr Asn Thr Arg Ala Ile Ile Ala Leu His
1 5 10 15
Asn Glu Ile Glu Val Ile Ile Gly Phe Ile Pro Lys Tyr Asn Ile Gly
20 25 30
Arg Val Ile His Ala Leu Gln Leu Ile Asn Tyr Asn Leu Phe Lys Leu
35 40 45
Tyr Ile Thr Thr Asn Met Ile Ile Arg His Pro Thr Pro Ala Pro Lys
50 55 60
Asp Glu Thr Met Val Phe Gln Asn Phe Thr Arg Val Ala Thr Lys Ser
65 70 75 80
Ser Asn Lys Gly Lys Lys
85

<210> 24419
<211> 185
<212> PRT
<213> A.fumigatus

<400> 24419
Ile Lys Met Ser His Ile Ala Arg Thr Ala Val His Arg Thr Thr Leu
1 5 10 15
Ala Val Arg Leu Gln Trp Pro Leu Ile Arg Ser Arg Phe Ser Thr Ser
20 25 30
Ala Arg Arg Pro Leu Met Glu Leu Thr Gly Phe Thr Glu Glu Gln Leu
35 40 45
Thr Val Arg Asp Ala Ile Ser Ala Ile Thr Ser Lys Phe Pro Asn Thr
50 55 60
Tyr Trp Gln Glu Cys Asp Gln Asn Glu Arg Asp Pro Lys Glu Phe His
65 70 75 80
Ala Ala Leu Ala Lys Asp Gly Trp Leu Gly Ile Ala Leu Pro Glu His
85 90 95
Leu Gly Gly Ala Gly Leu Gly Gln Tyr Ile His Val Ser Thr Leu Ser
100 105 110
Asp Thr Ala Ile Leu Thr Leu Asn Arg Asn Leu Arg Ser Tyr Asn Asp
115 120 125
Asp Ala Asp His His Ser Ile Trp Cys Arg Asn Gly Arg Cys Ser Gly
130 135 140
His Pro Cys Gln Arg Val Cys His Thr Thr Ala Gly Gln Ile Arg His
145 150 155 160
Gln Gly Ala Ala Arg Gly Asp Asp Ser Gln Asp His Gln Trp Asp Met
165 170 175
Ala Asp Leu Leu Arg Arg His Arg Ala
180 185

<210> 24420
<211> 261
<212> PRT
<213> A.fumigatus

<400> 24420
Thr Gly Ile Ser Glu Ala Thr Met Met Met Gln Thr Ile Thr Gln Ser

```
1               5                   10                  15
Gly Ala Gly Met Ala Gly Ala Gln Ala Ile His Ala Asn Val Tyr Ala
            20                  25                  30
Thr Gln Pro Leu Ala Lys Phe Gly Thr Lys Glu Gln Leu Glu Glu Thr
        35                  40                  45
Ile Pro Lys Ile Ile Asn Gly Thr Trp Arg Thr Cys Phe Gly Val Thr
    50                  55                  60
Glu Pro Asn Thr Gly Leu Glu Thr Leu Lys Leu Lys Thr Thr Ala Thr
65                  70                  75                  80
Lys Asn Ala Ser Gly Asp Ser Tyr Ser Val Thr Gly Gln Lys Ile Trp
                85                  90                  95
Ile Thr Cys Ala Gln Val Ala Ser Lys Met Ile Leu Leu Ala Arg Thr
            100                 105                 110
Thr Pro Ile Glu Glu Ile Lys Arg Ser Thr His Gly Leu Ser Met Phe
        115                 120                 125
Cys Ile Asp Leu Asp Arg Asp Lys Pro Gly Leu Asp Met Arg Lys Ile
    130                 135                 140
Lys Lys Met Gly Gly Arg Ala Val Asp Ala Asn Glu Val Phe Phe Asp
145                 150                 155                 160
Asn Tyr Gln Ile Pro Thr Asn Thr Leu Val Gly Glu Glu Asn Glu Gly
                165                 170                 175
Phe Lys Ile Ile Leu His Gly Met Asn Ala Glu Arg Cys Leu Leu Ala
            180                 185                 190
Gly Glu Ala Leu Gly Leu Gly Tyr Ala Ala Leu Glu Arg Ala Thr Gln
        195                 200                 205
Tyr Ala Asn Asp Arg Val Val Phe Gly Arg Pro Ile Gly Gln Asn Gln
    210                 215                 220
Gly Ile Ala His Pro Leu Ala Asp Ala Tyr Met Lys Ile Glu Ala Ser
225                 230                 235                 240
Lys Gly Gln Thr His Val Phe Ser Ile Gly Asp Ala Thr Pro Ala Val
                245                 250                 255
Ile Glu Pro Pro Asp
            260
```

<210> 24421
<211> 62
<212> PRT
<213> A.fumigatus

```
<400> 24421
His Ala Leu Val Cys Ser Ala Thr Ile Ala Ser Thr Phe Gly Val Ala
1               5                   10                  15
Ala Gly Ala Phe Ala Leu Phe Phe Phe Gly Glu Val Pro Arg Val Arg
            20                  25                  30
Asn Asp Ile Leu Arg Lys Val Pro Phe Leu Asp Glu Tyr Phe Asp Arg
        35                  40                  45
Ser Ile Pro Ala Glu Asp Asn Val Arg Thr Phe Glu Ser Cys
    50                  55                  60
```

<210> 24422
<211> 71
<212> PRT
<213> A.fumigatus

```
<400> 24422
Ser Ile Leu Cys Leu Asn Gln Glu Gln Thr Glu Tyr Cys Gly Ser Leu
```

```
1               5                   10                  15
Ala Cys Pro Arg Trp Ser Arg Pro Ala Gly Asn Asn Leu Gly Leu Pro
            20                  25                  30
Pro Val Lys Pro Ser Pro Ala Leu Glu Asn Ser Leu Ala Lys Gly Leu
        35                  40                  45
Asn Arg Leu Ser Phe Leu Leu Ala Gly Asp Phe Arg Val Lys Phe Arg
    50                  55                  60
Ile Phe Ala Phe Thr Leu Glu
65                  70
```

<210> 24423
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24423

```
Ala Ser Trp Arg Asn Val Arg Asn Leu Asn His Gln Pro Val Val Glu
1               5                   10                  15
Ser Arg Ile Ala Asp Pro Lys Asn Ser Asp Ser Ala Pro Gly Ile Pro
            20                  25                  30
Val Lys Gly Ile His Ala Ala Leu Asn Pro Ala Asn Ser Val Ala Gln
        35                  40                  45
Tyr Phe Trp Met Lys Thr Leu Asn Glu Leu Glu Phe Pro Gly
    50                  55                  60
```

<210> 24424
<211> 398
<212> PRT
<213> A.fumigatus

<400> 24424

```
Arg His Ala Asn Met Asp Glu Ile Arg Val Thr Ile Asp Arg Glu Ser
1               5                   10                  15
Gly Glu Ile Ser Val Trp Asn Asn Gly Arg Gly Ile Pro Ile Glu Ile
            20                  25                  30
His Ala Lys Glu Gly Ile Tyr Val Pro Glu Leu Ile Phe Gly His Leu
        35                  40                  45
Leu Thr Ser Ser Asn Tyr Asp Asp Thr Gln Lys Lys Val Thr Gly Gly
    50                  55                  60
Arg Asn Gly Phe Gly Ala Lys Leu Cys Asn Val Phe Ser Thr Glu Phe
65                  70                  75                  80
Thr Ile Glu Thr Gln Asp Ser Arg Gln Lys Lys Lys Tyr Lys Gln Thr
                85                  90                  95
Trp Thr Asn Asn Met Ser Lys Met Gly Lys Ala Lys Ile Thr Asp Ala
            100                 105                 110
Lys Gly Glu Asp Tyr Thr Lys Val Thr Phe Lys Pro Asp Tyr Ala Lys
        115                 120                 125
Phe Gly Met Glu Gly Met Asp Asp Asp Phe Glu Ala Leu Val Lys Arg
    130                 135                 140
Arg Val Tyr Asp Leu Ala Gly Thr Thr Lys Val Ala Val Lys Leu Asn
145                 150                 155                 160
Gly Ser Arg Ile Pro Val Arg Asn Phe Lys Lys Tyr Met Glu Met Tyr
                165                 170                 175
Thr Lys Ala Ile Arg Arg Glu Arg Gly Glu Glu Asp Thr Asn Ala Lys
            180                 185                 190
Asp Glu Ile Ile Thr Cys Ser Pro Asp Pro Arg Trp Glu Ile Gly Phe
```

```
        195                 200                 205
Ala Val Ser Asp Gly Ser Phe His Gln Val Ser Phe Val Asn Ser Ile
    210                 215                 220
Ala Thr Thr Ser Gly Gly Thr His Val Asn Tyr Ile Ala Asp Gln Ile
225                 230                 235                 240
Cys Ala Arg Leu Ala Asp Gln Val Lys Lys Lys Asn Lys Asn Gly Ala
                245                 250                 255
Thr Leu Lys Pro Ala Gln Ile Arg Asn His Ile Phe Ile Phe Val Asn
            260                 265                 270
Ala Leu Ile Val Asn Pro Ala Phe Thr Ser Gln Thr Lys Glu Gln Leu
        275                 280                 285
Thr Thr Lys Ser Ser Gln Phe Gly Ser Lys Cys Val Leu Glu Glu Asp
    290                 295                 300
Phe Tyr Lys Lys Ile Leu Arg Thr Glu Val Met Asn Asn Ile Leu His
305                 310                 315                 320
Phe Ala Gln Ala Lys Ala Asp Gln Leu Leu Lys Lys Thr Asp Gly Gly
                325                 330                 335
Arg Arg Thr Arg Met Asn Asn Pro Lys Leu Val Asp Ala Asn Lys Ala
            340                 345                 350
Gly Thr Lys Asp Gly His His Cys Thr Leu Ile Leu Thr Glu Gly Asp
        355                 360                 365
Ser Ala Lys Gly Leu Ala Met Ala Gly Arg Ala Val Val Gly Pro Asp
    370                 375                 380
Leu Leu Asn Arg Arg Asp Glu Arg Thr Cys Ala Pro Gly Lys
385                 390                 395
```

<210> 24425
<211> 376
<212> PRT
<213> A.fumigatus

<400> 24425

```
Thr Thr Arg Asn Gly Ser Pro Pro Tyr Val Leu Ser Gln Val Glu Lys
1                   5                   10                  15
Ala Ser Ala Ser Ala Thr Glu Phe Ser Thr Ala Phe Asn Asn Phe Ile
            20                  25                  30
Ala Asp Gly Pro Asn Ser Pro His Ala Glu Ile Ile Arg Thr Val Ser
        35                  40                  45
Ile Phe Ser Gly Ser Ile Ala Asp Val Leu Ser Asn Thr Lys Gly Leu
    50                  55                  60
Thr Arg Phe Ala Asn Asp Asp Lys Ser Ala Asp Gln Leu Leu Asn Ala
65                  70                  75                  80
Ala Arg Lys Ser Ala Gln Ala Thr Val Arg Phe Phe Arg Gly Leu Gln
                85                  90                  95
Ser Phe Arg Leu Glu Gly Leu Glu Pro Leu Gln Lys Thr Asp Val Val
            100                 105                 110
Ile Asn Asn Asn Leu Glu Val Gln Lys Asp Leu Gln Ser Leu Ser Lys
        115                 120                 125
Leu Val Asp Ala Phe Ala Pro Lys Ser Thr Lys Ile Ser Thr Ser Gly
    130                 135                 140
Asp Leu Gly Asp Leu Val Asp Lys Glu Leu Ser Lys Ala Ala Asp Ala
145                 150                 155                 160
Ile Glu Ala Ala Ala Ala Arg Leu Ala Lys Leu Lys Thr Lys Pro Arg
                165                 170                 175
Glu Ser Phe Ser Thr Tyr Glu Leu Arg Ile Asn Asp Val Ile Leu Ala
            180                 185                 190
```

```
Ala Ala Ile Ala Val Thr Asn Ala Ile Ala Glu Leu Ile Lys Ala Ala
        195                 200                 205
Thr Glu Ser Gln Gln Glu Ile Val Arg Glu Gly Arg Gly Ser Ser Ser
    210                 215                 220
Arg Thr Ala Phe Tyr Lys Lys Asn Asn Arg Trp Thr Glu Gly Leu Ile
225                 230                 235                 240
Ser Ala Ala Lys Ala Val Ala Thr Ser Thr Asn Thr Leu Ile Glu Thr
                245                 250                 255
Ala Asp Gly Val Ile Ser Gly Arg Asn Ser Pro Glu Gln Leu Ile Val
            260                 265                 270
Ala Ser Asn Asp Val Ala Ala Ser Thr Ala Gln Leu Val Ala Ala Ser
        275                 280                 285
Arg Val Lys Ala Thr Phe Met Ser Lys Thr Gln Asp Arg Leu Glu Ala
    290                 295                 300
Ala Ser Lys Ala Val Gly Ala Ala Cys Arg Ala Leu Val Arg Gln Val
305                 310                 315                 320
Gln Asp Ile Ile Ala Glu Arg Asn Arg Asp Glu Gly Glu Thr Val Asp
                325                 330                 335
Tyr Ala Lys Leu Ser Ser His Glu Phe Lys Val Arg Glu Met Glu Gln
            340                 345                 350
Gln Val Cys Leu Ile Leu Ser Asp Leu Leu His Cys Phe Ser Arg Ala
        355                 360                 365
Ser Leu Ser Lys Leu Leu Thr Arg
    370                 375
```

<210> 24426
<211> 147
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(4),(5),(6),(7),(9),(10),(11),(12),(14),(15),(16),(18),(19),(21),(22),(23),(25)
,(26),(28),(29),(30),(31),(32),(33),(39),(40),(41),(42),(44),(45),(47),(48),(49
),(50),(51),(52),(53),(54),(55),(56),(57),(58)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24426

```
Pro Pro Pro Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa
1               5                   10                  15
Pro Xaa Xaa Pro Xaa Xaa Xaa Pro Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa
            20                  25                  30
Xaa Pro Pro Pro Pro Pro Xaa Xaa Xaa Xaa Pro Xaa Xaa Pro Xaa Xaa
        35                  40                  45
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Pro Pro Pro Pro Pro
    50                  55                  60
Pro Pro Met Val Ile Gly Glu Trp Ala Leu Val Phe Leu Val Arg Asn
65                  70                  75                  80
Phe Ala His Leu Ser Lys Ala Leu Thr Cys Pro Gly Gln Thr Val Leu
                85                  90                  95
Glu Leu Lys Asp Phe Asp Leu Phe Thr Arg Asn Gln Arg Val Ser Asn
            100                 105                 110
Leu Glu Arg Asp Ala Arg Glu Lys Gln Cys Asn Arg Ser Asp Lys Ile
        115                 120                 125
Arg His Thr Cys Cys Ser Ile Ser Arg Thr Leu Asn Ser Cys Glu Leu
```

```
    130                 135                 140
Ser Phe Ala
145

<210> 24427
<211> 112
<212> PRT
<213> A.fumigatus

<400> 24427
Met Lys Leu Met Arg Ser Phe Gln Pro Arg Gly Glu Asp Thr Asn Ile
1               5                  10                  15
Pro Thr Ile Gly Glu Lys Gly Tyr Gly Trp Glu Lys Leu Val Lys Trp
            20                  25                  30
Ala Ser Cys Val Glu Glu Leu Thr Glu Ser Glu Arg Gln Ala Thr Arg
        35                  40                  45
Leu Leu Ala Gly Leu Met Glu Leu Asp Pro Tyr Lys Arg Leu Ser Ala
    50                  55                  60
Arg Glu Ala Leu Gln His Glu Phe Phe Thr Asn Pro Ile Glu His Asp
65                  70                  75                  80
Val Glu Trp Gly Gly Leu Pro Glu Asp Ser Ala Asp Thr Gly Glu Asp
                85                  90                  95
Glu Glu Gly Asp Arg Asp Asp Asp Glu Ala Asp Glu Val Ala Met Val
            100                 105                 110

<210> 24428
<211> 250
<212> PRT
<213> A.fumigatus

<400> 24428
Ser Ala Ile Pro Ser Ser Pro Gly Ala Met Thr Thr Ala Gln Asp Glu
1               5                  10                  15
Asp Asp Gly Lys Val Ser Leu Thr Arg Lys Ala His Glu Gly Val Ser
            20                  25                  30
Asp Asp Pro Pro Glu Ile Ala Ser Pro Glu His Ser Gly Thr Phe Val
        35                  40                  45
Leu Arg Ile Met Pro Asp Asp Asn Ser Cys Leu Phe Arg Ala Val Gly
    50                  55                  60
Ser Ala Ile Met Gly Gly Met Asp Thr Met Thr Glu Leu Arg Ser Ile
65                  70                  75                  80
Val Ala Gln Thr Ile Gln Ala Asn Pro Asp Val Tyr Ser Glu Ala Val
                85                  90                  95
Leu Glu Lys Lys Ala Asp Asp Tyr Cys Arg Trp Ile Gln Gln Glu Asn
            100                 105                 110
Ser Trp Gly Gly Ala Ile Glu Leu Ser Ile Leu Ser Lys His Phe Asp
        115                 120                 125
Ile Glu Ile Cys Ser Ile Asp Val Gln Thr Leu Arg Val Asp Arg Phe
    130                 135                 140
Asn Glu Gly Pro Pro Thr Arg Cys Val Leu Val Tyr Ser Gly Ile His
145                 150                 155                 160
Tyr Asp Thr Ile Ala Leu Ser Pro Ser Asp Pro Pro Tyr Thr His Ala
                165                 170                 175
Tyr Ala Pro Pro Glu Phe Asp Thr Lys Val Phe Asp Ala Ala Asp Pro
            180                 185                 190
Val Val Leu Glu Lys Ala Leu Ala Leu Cys Glu Ile Leu Gln Arg Lys
```

```
        195                 200                 205
His Tyr Tyr Thr Asp Thr Ala Gly Phe Arg Ile Arg Cys Asn Thr Cys
    210                 215                 220
Gly Gly Ile Phe Ile Gly Glu Lys Gly Ala Thr Thr His Ala Thr Gln
225                 230                 235                 240
Thr Gly His Tyr Asn Phe Gly Glu Ala Ser
                245                 250
```

<210> 24429
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24429

```
Phe Arg Phe Phe His Asn Asp Tyr Phe Leu Leu Ile Arg Leu Gly Ser
1               5                   10                  15
Ile Glu Val Ser Ser Leu Phe Tyr Ser Leu Met Phe Phe Phe Pro Phe
            20                  25                  30
Phe Leu Phe Tyr Lys Asn His Ile Asn Ile Leu Phe Leu Phe Ile Leu
        35                  40                  45
Phe Tyr Phe Phe Leu Ile Phe Asn Phe Arg Leu His His Glu Ala Ala
    50                  55                  60
Gly Ser Ala Ile Ser
65
```

<210> 24430
<211> 281
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (212),(253),(273)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24430

```
Val Phe Cys Cys Phe Pro Ala Leu Glu Arg Leu His Ala Leu Lys Arg
1               5                   10                  15
Ala Gly Ser Gln Ile Ala Ile Asn Ser Arg Glu Ala Val Arg Phe Leu
            20                  25                  30
Asp Arg Val Thr Ser Gly Lys Asp Asn Ile Pro Ala Asp Ser Ile Val
        35                  40                  45
Leu Gln Gly Pro Met Glu Gln Tyr Glu Asn Trp Glu Glu Ala Glu Lys
    50                  55                  60
Phe Phe Leu Pro Glu Phe Glu Glu Glu Pro Glu Ala Pro Asn Gly Asp
65                  70                  75                  80
Asp Thr Glu Glu Gln Ser Pro Arg Glu Thr Pro Ala Glu Lys Met Lys
                85                  90                  95
Ser Ser Thr Lys Lys Asn Gly Ala Ala Pro Asp Asp Leu Ser Gln Met
            100                 105                 110
Leu Leu Asn Lys Leu Asn Phe Lys Thr Glu Ser Asp Ala Ala Ser Ile
        115                 120                 125
Pro Ser Ala Gly Thr His Ser Asn Pro Ala Ser Ser Pro Ser Ser Arg
    130                 135                 140
Ser Ser Arg Thr Ser Pro Glu Asp Ser Asn Leu Arg Thr Ala Ala Asp
145                 150                 155                 160
```

```
Asn Arg Val Thr Asn Glu Ala Thr Leu Lys Ile Glu Ser Gly His Arg
                165                 170                 175
Arg Thr Ala Ser Gly Ser Val Val Pro Thr Val Pro Val Val Leu Arg
            180                 185                 190
Pro Leu Leu Ser Ala Ile Leu Trp Arg Leu His Ser Gly Pro Asp Ala
        195                 200                 205
Thr Asn Ala Xaa Lys Ala Cys Ile Leu Val Thr Asn Asp Lys Val Thr
    210                 215                 220
Gly Leu Trp Ala Gln Lys Phe Gly Ile Ala Val Lys Asn Ile His Gln
225                 230                 235                 240
Leu Gln Thr Ser Ile Gln Tyr Glu Glu Arg Glu Phe Xaa Lys Arg Cys
                245                 250                 255
Lys Phe Val Glu Lys Asn Gln Val Ser Glu Pro Lys Ser Leu Leu Leu
            260                 265                 270
Xaa Arg Arg Thr Lys Ala Thr Arg Met
        275                 280
```

<210> 24431
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24431

```
Arg Ser Leu Arg Ala Met Ser Ala Gly Arg Lys Val Phe His Cys Ala
1               5                   10                  15
Val Asp Glu Thr Ala Leu Thr Thr Asn Ile Ser Glu Ile Lys Arg Trp
            20                  25                  30
Thr Thr Ser Gly Ala Ile Thr Leu Ile Val Pro Leu Tyr Ser Lys Tyr
        35                  40                  45
Ile Asp Phe Arg Asp Ala Ile Pro Pro Ser Arg Ser Leu Ile Arg Phe
    50                  55                  60
Ser Ala Val Phe Gln Pro Leu Asn Ala Cys Met Arg
65                  70                  75
```

<210> 24432
<211> 153
<212> PRT
<213> A.fumigatus

<400> 24432

```
Gln Gly Asp Pro Pro Thr Ala Glu Asp Leu Arg Ala Arg Gly Ala Ala
1               5                   10                  15
Gly Ala Arg Gln Gln Arg Glu Pro Cys Ala Ser Ser Cys Ala Ala Ala
            20                  25                  30
Ala Ser Ser Ser Thr Ser Ser Ala Ala Ala Thr Ala Ser Pro Ser Ala
        35                  40                  45
Ala Glu Cys Ala Ile Leu Leu Pro Ser Ala Gly Thr Val His Val Ala
    50                  55                  60
Ser Asp Ala Gly Pro Gly Cys Asp Ser Ala Ser Thr Ala Leu Asp Gly
65                  70                  75                  80
Ala Phe Pro Ala Ala Ala Ala Ala Pro Gly Pro Gly Ser Ala Ala Ala
                85                  90                  95
Asp Lys Arg Val Val Ser Leu Gly Ser Asp Gly Arg Arg Thr Ile Arg
            100                 105                 110
Arg Cys Ile Lys Ser Ala Ala Arg Cys Phe Asp Met Ile Pro Val His
        115                 120                 125
```

```
Tyr Trp Ser Val Gly Val Arg His Thr Asp Ser Thr Ile Asp Thr Thr
    130                 135                 140
Ile Leu Met Arg Leu Thr His Val Arg
145                 150
```

<210> 24433
<211> 222
<212> PRT
<213> A.fumigatus

<400> 24433

```
Pro Pro Arg Leu Ile Phe Gln Pro Ala Gly Glu Asp Gly Lys Glu Pro
1               5                   10                  15
Val Ala Asp Pro Thr Gly Ser Pro Val Asn Val Ser Ala Ser Pro Thr
            20                  25                  30
Val Gln Ser Gly Ala Ala Leu Gln Asn Gln Lys Pro Ala Ala Val Ala
        35                  40                  45
Pro Asn Ala Lys Ala Asn Asp Lys Gln Pro Ala Ser Ser Arg Pro Ala
    50                  55                  60
Glu Thr Gln Val Thr Lys Pro Ser Pro Thr Pro Ala Pro Ala Gln Ala
65                  70                  75                  80
Pro Ala Pro Thr Gln Gln Gln Lys Thr Lys Lys Lys Gln Glu Leu Ser
                85                  90                  95
Arg Lys Glu Glu Glu Lys Arg Thr Lys Lys Arg Leu Glu Glu Glu Glu
            100                 105                 110
Lys Ala Arg Arg Lys Arg Gln Ala Glu Ile Asp Lys Glu Thr Arg Arg
        115                 120                 125
Leu Gln Lys Ile Tyr Gly Arg Glu Glu Gln Gln Val Arg Ala Ser Ser
    130                 135                 140
Val Asn Leu Ala Arg Pro Pro Ala Gln Pro Pro Arg Pro Pro Ala Pro
145                 150                 155                 160
Pro Arg Gln Gln Gln Pro His Pro Pro Pro Arg Pro Asn Ala Arg Tyr
                165                 170                 175
Tyr Tyr His Gln Gln Ala Pro Ser Met Leu His Leu Thr Pro Gly Pro
            180                 185                 190
Val Ala Thr Pro Pro Arg Pro His Ser Thr Val His Ser Leu Gln Pro
        195                 200                 205
Pro Gln Pro Gln Asp Gln Gly Gln Gln Pro Pro Thr Lys Glu
    210                 215                 220
```

<210> 24434
<211> 140
<212> PRT
<213> A.fumigatus

<400> 24434

```
Phe Ser Ser Arg Leu Val Lys Met Gly Arg Asn Leu Trp Leu Ile Arg
1               5                   10                  15
Gln Ala Val Leu Ser Met Leu Val Leu Ala Gln Arg Tyr Arg Val Val
            20                  25                  30
Arg Pro Cys Arg Ile Arg Ser Leu Arg Arg Ser Pro Arg Met Gln Arg
        35                  40                  45
Pro Thr Thr Ser Ser Leu His Pro Arg Ala Gln Gln Arg Leu Lys Ser
    50                  55                  60
Arg Ser Gln Ala Gln Arg Gln Arg Pro Pro Lys Pro Gln Leu Gln Arg
65                  70                  75                  80
```

```
Ser Ser Arg Arg Arg Arg Arg Ser Lys Asn Cys Arg Ala Arg Arg Arg
                85                  90                  95
Lys Asn Gly Pro Arg Lys Asp Trp Lys Lys Arg Arg Arg Leu Val Ala
            100                 105                 110
Ser Ala Arg Pro Arg Leu Thr Arg Arg Pro Ala Asp Cys Arg Arg Ser
        115                 120                 125
Thr Gly Ala Arg Ser Ser Arg Cys Ala Pro Ala Ala
    130                 135                 140
```

<210> 24435
<211> 182
<212> PRT
<213> A.fumigatus

<400> 24435

```
Cys Thr Gly Ile Ile Ser Lys His Arg Ala Ala Leu Phe Met His Leu
1               5                   10                  15
Arg Ile Val Arg Arg Pro Ser Glu Pro Lys Glu Thr Thr Leu Leu Ser
            20                  25                  30
Ala Ala Ala Asp Pro Gly Pro Gly Ala Ala Ala Ala Ala Gly Asn Ala
        35                  40                  45
Pro Ser Ser Ala Val Glu Ala Glu Ser Gln Pro Gly Pro Ala Ser Asp
    50                  55                  60
Ala Thr Trp Thr Val Pro Ala Asp Gly Ser Ser Ile Ala His Ser Ala
65                  70                  75                  80
Ala Glu Gly Asp Ala Val Ala Ala Ala Glu Glu Val Leu Glu Asp Ala
                85                  90                  95
Ala Ala Ala Gln Glu Asp Ala Gln Gly Ser Arg Cys Trp Arg Ala Pro
            100                 105                 110
Ala Ala Pro Arg Ala Arg Arg Ser Ser Ala Val Gly Gly Ser Pro Cys
        115                 120                 125
Gln Ser Arg Pro Gly Ala Cys Asp Glu Pro Ser Pro Leu Leu Pro Val
    130                 135                 140
Phe Ser Trp Ser Val Phe Pro Pro Pro Cys Ala Thr Val Leu Ala Ser
145                 150                 155                 160
Ser Ser Ser Ser Ala Ala Ala Leu Glu Leu Gly Leu Gly Arg Ala Leu
                165                 170                 175
Ala Leu Gly Leu Ala Ser
            180
```

<210> 24436
<211> 98
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (73),(75),(83)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24436

```
Leu Thr Trp Ser Phe Ser Gly Ala Pro Leu Met Ser Asp Pro Ala Ile
1               5                   10                  15
Gln Glu Met Ala Lys Lys Tyr Gly Val Ser Pro Ala Thr Val Leu Ile
            20                  25                  30
Ser Tyr His Val Asn Arg Gly Val Val Val Leu Pro Lys Ser Thr Gln
```

```
        35                  40                  45
Glu Asn Arg Ile Leu Ser Asn Arg Gln Val Ile Pro Leu Ser Pro Glu
    50                  55                  60
Asp Met Asp Val Leu Asn Gly Leu Xaa Ala Xaa Arg Lys Ala Lys Arg
65                  70                  75                  80
Ile Asn Xaa Pro Leu Phe Gly Trp Asp Leu Gly Phe Asp Asp Trp Tyr
                85                  90                  95
Gln Gln
```

<210> 24437
<211> 121
<212> PRT
<213> A.fumigatus

<400> 24437

```
Lys Arg Trp Thr Phe Gln Pro Arg Gly Glu Tyr Glu Thr Ser Glu Leu
1               5                   10                  15
Leu Pro Val Asn Pro Asp Gly Thr Arg Ser Val Asp Arg Ser Trp Asp
            20                  25                  30
Gln Ser Glu Thr Trp Arg Gln Met Glu Glu Ile Tyr Lys Ala Gly Lys
        35                  40                  45
Val Lys Ala Ile Gly Val Ala Asn Trp Ser Ile Pro Tyr Leu Glu Glu
    50                  55                  60
Leu Lys Lys Lys Trp Thr Val Val Pro Ala Val Asn Gln Val Glu Leu
65                  70                  75                  80
His Pro Phe Leu Pro Gln His Ala Leu Lys Glu Trp Cys Asp Lys His
                85                  90                  95
Gly Ile Leu Leu Glu Ala Tyr Ser Pro Leu Gly Ser Glu Gly Glu Cys
            100                 105                 110
Pro Trp Thr Arg Tyr Val Arg Phe Pro
        115                 120
```

<210> 24438
<211> 381
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(26),(376)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24438

```
Xaa Asp Arg Phe Lys Glu Ile Thr Ser Ser Ala Ile Tyr Asn Pro Ser
1               5                   10                  15
Ala Lys Arg Phe Ala Ser Gln Met Thr Xaa Thr Pro Lys Gly Ile Pro
            20                  25                  30
Ile Lys Lys Pro Arg Gln Ser Ala Leu Ser Arg Ala Gln Pro Val Glu
        35                  40                  45
Val Ser Val Thr Ser Leu Gln Asp Ile Gln Asp Tyr Gln Met Arg Val
    50                  55                  60
Lys Val Glu Arg Met Leu Lys Val Met Pro Gln Lys Ser Val Gln Ala
65                  70                  75                  80
Cys Met Gln Ala Leu Val Phe Lys Arg Gly Asn Tyr Glu Asp Ala Leu
                85                  90                  95
```

```
Asp His Leu Ala Asn Thr Glu Glu Arg Asp Ala Pro Gly Ser Ser Asp
            100                 105                 110
Asp Glu Leu Ile Thr Ala Gln Gln Ala Glu Gln Ile Ala Pro Ala Lys
        115                 120                 125
Gln Asn Ile Lys Ala Arg Gly Thr Ile Gln Asp Lys Trp Ser Ala Met
    130                 135                 140
Asn Leu Gln Lys Asn Leu Ala Ser Gln Lys Val Gln Ser Gln Ser Gln
145                 150                 155                 160
Pro Gln Pro Leu Asn Glu Glu Glu Ala Lys Pro Arg Arg Arg Leu Met
                165                 170                 175
Arg Gly Pro Lys Ser Arg Gly Ile Ser Pro Ser Pro Ala Arg Ser Glu
            180                 185                 190
Thr Pro Pro Lys Lys Lys Pro Gly Arg Leu Val Gln Gly Arg Lys Gln
        195                 200                 205
Pro Ser Pro Ala Arg Ser Glu Ser Pro Glu Ala Pro Leu Ile Met Thr
    210                 215                 220
Asp Asp Ser Asp Ser Gly Val Gly Asp Ala Leu Glu Asn Val Glu Ser
225                 230                 235                 240
Glu Ile Lys Val Leu Arg Phe Ile Asn Thr Cys Gln Ala Val Glu Leu
                245                 250                 255
Ala Asp Leu Ala Ala Thr Thr Glu Asp Val Ala Gln Val Ile Ile Ser
            260                 265                 270
His Arg Pro Phe Arg Ser Leu Asp Glu Ala Arg Ala Val Pro Ala Pro
        275                 280                 285
Ser Thr Glu Gln Asn Thr Lys Pro Arg Gly Ala Arg Gly Arg Lys Thr
    290                 295                 300
Pro Lys Pro Ile Gly Asp Lys Ile Val Asp Lys Cys Leu Asp Met Trp
305                 310                 315                 320
Val Gly Tyr Glu Ala Val Asp Ser Leu Val Ala Lys Cys Glu Ala Leu
                325                 330                 335
Gly Arg Pro Val Ala Ala Glu Met Lys Asn Trp Gly Val Asp Ile Phe
            340                 345                 350
Gly Lys Arg Glu Arg Glu Leu Asp Leu Val Ser Ile Asn Gln Glu Ser
        355                 360                 365
His Asp Ser Gly Ile Gly Asp Xaa Ala Ser Ser Ala Phe
    370                 375                 380
```

<210> 24439
<211> 64
<212> PRT
<213> A.fumigatus

```
<400> 24439
Leu Ser Asn Tyr Pro Ile Leu Leu Gly Leu Phe Phe Gly Ser Phe Ser
1               5                   10                  15
Lys His Phe Thr Gln Asn Phe Ser Lys Gly Val Leu Thr Asn Gly Val
            20                  25                  30
Asp Lys Asn Tyr Pro Thr Ser Tyr Ser Leu Asp Arg Arg His Phe Ala
        35                  40                  45
Ile His Glu Ser Asp Asn Val Val Arg Gly Ser Val Val Pro Trp Leu
    50                  55                  60
```

<210> 24440
<211> 93
<212> PRT
<213> A.fumigatus

<400> 24440
Ile Asp His Lys Met Arg Pro Lys Ala Asn Ala Ser Tyr Leu Asn Arg
1 5 10 15
Asn Asp Asp Glu Arg Pro Arg Ala Tyr Ile Val Leu Lys Pro Gly His
20 25 30
His Ala Ala Ala Asn Asp Ile Val Ala Phe Met Asp Gly Lys Val Ser
35 40 45
Ala Ile Lys Arg Ile Thr Gly Gly Val Val Phe Val Asp Ala Ile Arg
50 55 60
Lys Asn Pro Phe Gly Lys Ile Leu Arg Lys Val Leu Arg Glu Arg Ala
65 70 75 80
Lys Glu Glu Thr Gln Lys Asn Gly Val Ile Ala Lys Leu
85 90

<210> 24441
<211> 119
<212> PRT
<213> A.fumigatus

<400> 24441
Ala Asn Tyr Tyr Val Ser Asn Arg Thr Thr Cys Ser Ile Leu Gly Trp
1 5 10 15
Asn Pro Ser Glu Lys Ser Tyr Ser Ala Ser Val Gly Glu Leu Asn Ala
20 25 30
Asn Cys Glu Ala Lys Ile Met Ala Asp Asp Gly Val Thr Glu Tyr Gly
35 40 45
His Asn Gln Arg Gly Glu Leu Trp Val Arg Ala Pro Asn Ile Met Lys
50 55 60
Gly Tyr Trp Lys Asn Pro Gln Ala Thr Glu Glu Thr Lys Thr Ala Asp
65 70 75 80
Gly Trp Leu Lys Thr Gly Asp Ile Ala Tyr Val Asp Asp Asn Gly Arg
85 90 95
Phe His Val Val Asp Arg Lys Lys Val Ser Pro Asn Phe Pro Thr Glu
100 105 110
Pro Met Leu Asn Asp Phe Gly
115

<210> 24442
<211> 240
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (101),(146)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24442
Tyr Arg Asp Arg Leu Ser Phe Ala Arg Leu Ile Leu Asn His Leu Thr
1 5 10 15
Leu Val His Asn Leu Phe Trp Glu Glu Tyr Thr Tyr Asp Ala Tyr His
20 25 30
Arg Val Asp Val Ser Arg Val Leu Val Leu Ala Thr Asn Ala Asn Ser
35 40 45
Ser Cys Arg Val Phe Phe Ile Pro Ala Asn Pro Asn Ala Ser Thr Ala

```
    50                  55                  60
Leu Ala Thr Ile Thr Glu Arg Leu His Ser Ala Val Ala Glu Glu Pro
65                  70                  75                  80
Val Ala Ile Gly Arg Trp Ala Leu Glu His Lys Leu Met Arg Asp Thr
                85                  90                  95
Pro Ser Cys Val Xaa Gly Ser Gly Pro Gln Arg His Ala His Pro Arg
            100                 105                 110
Tyr Met Gln Phe Leu Ser Leu Ser Tyr Tyr Pro Asn His Gly Phe Ile
        115                 120                 125
Tyr Thr Ser Gln Pro Pro Glu Lys Thr Ala Gln Ser Pro Ala Pro Asn
    130                 135                 140
Ala Xaa Thr Pro Gln Thr Gly Leu Thr Pro Ala Leu Gly Ser Ala Thr
145                 150                 155                 160
Pro Ser Asn Ala Ala Ala Ala Gly Gly Ser Gly Met Val Met Ile Thr
                165                 170                 175
Val Pro Leu Pro Ser Ser Gly Ala Leu Phe Lys His Phe Val Tyr Ala
            180                 185                 190
Cys Gln Pro Phe Trp Cys His Arg His Thr Val Ala Val Pro Gly Gly
        195                 200                 205
Met Val Tyr Asp Val Gly Asp Phe Arg Val Arg Ile Gly Asp Val Arg
    210                 215                 220
Gln Thr Gln Arg Leu His His Gly Asp Trp Gln Asp Pro Ser Leu Arg
225                 230                 235                 240
```

<210> 24443
<211> 318
<212> PRT
<213> A.fumigatus

<400> 24443

```
Arg Leu Thr Asn Tyr Ser Ser Ala Val Phe Gln Gln Thr Asp Phe Ala
1               5                   10                  15
Ala Asp Phe Thr Glu Tyr Asp Ile Ile Gln Thr Ser Ile Thr Thr Gly
            20                  25                  30
Val Ser Ile Leu Pro Trp Thr Ser Ala Asn Arg Ser Phe Val Pro Ile
        35                  40                  45
Thr Ile Lys Asp Pro Asp Ser Asp Ala Leu Tyr Gly Ala Asn Thr Leu
    50                  55                  60
Gly Ile Gly Ala Asp Leu Ala Cys Glu Glu Leu Ser Ile Ala Asp Ser
65                  70                  75                  80
Leu Val Val Asn Pro Gln Asn Gly Ser Ala Tyr Trp Glu Tyr Gln Thr
                85                  90                  95
Phe Asp Asp Pro Ser Arg His Cys Lys Val Asp Met Ser Met Leu Gln
            100                 105                 110
His Pro His Glu Asn Ile Thr Leu Ser Ile His Phe Leu Ser Pro Val
        115                 120                 125
Val Thr Glu Asp Asp Thr Tyr Asp Cys Gln Thr Ser Thr Val Val Val
    130                 135                 140
Leu Gly Arg Trp Asn Tyr Thr Ala Gly Ser Pro Ile Thr Asp Lys Asn
145                 150                 155                 160
Thr Ile Ala Leu His Cys Glu Pro Arg Ile Lys Leu Glu Asn Tyr Ser
                165                 170                 175
Ile Thr Phe Asp Thr Lys Gly Gln Ile Gln Asp Leu Ser Pro Ile Ala
            180                 185                 190
Gly Thr Ala Ile Thr Ser Gly Pro Met Tyr Asp Asn Ala Thr Ile Ser
        195                 200                 205
```

```
Val Gly Gln Phe Asn Lys Val Phe Ala Ala Ile Pro Gln Ser Tyr Ile
    210                 215                 220
Ser Asn Ser Thr Tyr Asp Arg Lys Thr Tyr Ile Thr Ser Tyr Asp Trp
225                 230                 235                 240
Ala Gly Val Leu Val Ala Arg Leu Tyr Arg Arg Arg Asp Pro Gly Phe
                245                 250                 255
Met Ala Leu Asn Pro Asp Asp Leu Met Asp Met Ser Arg Ile Val Tyr
            260                 265                 270
Gln Gly Val Tyr Ser Thr Leu Phe Tyr Gln Ser Gly Gly Gly Ile Asn
        275                 280                 285
Leu Gln Pro Val Gly Gln Thr Gly Gly Trp Phe Gly Thr Leu Arg Gly
    290                 295                 300
Ile Phe Asp Pro Trp Asp His Gly Asn Arg His Ser Pro Leu
305                 310                 315
```

<210> 24444
<211> 372
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (372)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24444

```
Tyr Arg Ile Pro Asn Asn Pro Gly Glu His Gln Pro Ala Ser Gly Ile
1                   5                   10                  15
Thr Gly Glu Ala Gly Ile Gly Pro Met Gly Ile Gly Thr Lys Asn Ser
            20                  25                  30
Gly Glu Leu Ala Arg Gln His Ile Asp Glu Gln Ala Thr Ser Ala Ile
        35                  40                  45
Pro Gly Tyr Arg Ala Gly Thr Arg Val Ala Lys Arg Arg Thr Ala Ala
    50                  55                  60
Leu Gly Gln Arg Leu Pro Ile Ser Ser Ile Leu Gly Gln Asp Leu Pro
65                  70                  75                  80
Pro Thr Glu Ile Met Tyr Ser Leu Leu Glu Asp Tyr Phe Asp Ala Val
                85                  90                  95
His Trp Phe Ser Leu Ala Ile Tyr Glu Pro Thr Phe Arg Arg Lys Leu
            100                 105                 110
Leu Ser Val Ala Asp Gly Phe Ala Tyr Pro Ser Gln Lys Ser Phe Leu
        115                 120                 125
Leu Leu Leu Ala Val Val Leu Gly Met Gly Ala Trp Tyr Arg Ser Gln
    130                 135                 140
Arg Arg Thr Thr Asp Ser Thr Asp Asn Gly Asp Trp Gln Gln Leu Ser
145                 150                 155                 160
Ala Asn Leu Leu Lys Ile Val Glu Ser His Val Val Glu Leu Met Asp
                165                 170                 175
Gln Pro Ser Val Thr Ala Ala Gln Ile Cys Ile Leu Phe Gly Ser His
            180                 185                 190
His Val Tyr His Gly Arg Pro Asn Leu Ser Phe Ser Leu Leu Gly Ala
        195                 200                 205
Thr Ile Lys Ile Ser Gln Ala Ala Gly Leu His Arg Glu Leu Pro Arg
    210                 215                 220
Gly Asn Phe Glu Asp Ile Glu Glu Arg Lys Arg Val Trp Trp Thr Ile
225                 230                 235                 240
```

```
Tyr Thr Trp Asp Arg Phe Ala Ser Ile Thr Tyr Gly Arg Pro Leu Gly
                245                 250                 255
Ile Asn Asp Lys Asp Cys Asn Leu Asn Met Pro Ala Asp Thr Phe Glu
            260                 265                 270
Asn Pro Tyr Phe Val Ala Pro Arg Ser Glu Gln Gly Tyr Thr Val Cys
        275                 280                 285
Tyr Ser Thr Tyr Gln Arg Glu Leu Asn Arg Leu Tyr Leu Met Ala Ser
    290                 295                 300
Thr Ala Leu Glu Val Ile Phe Gly Ser Arg Thr Ser Gly Ser Ser Glu
305                 310                 315                 320
Glu Leu Ala Gly Asp Ala Tyr Val Ala Leu Val Lys Glu Ala Thr Gln
                325                 330                 335
Asn Leu Arg Arg Trp Arg Asp Glu Leu Pro Glu His Leu Val Leu Asp
            340                 345                 350
Leu Glu Arg Asp Phe Pro Pro Asp Arg Ser Ser Pro Arg Gly Trp Lys
        355                 360                 365
Asp Arg Arg Xaa
    370
```

<210> 24445
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24445

```
Arg Tyr Arg Pro Leu Ser Asn Phe Phe Ile Lys Ser Thr Ser Ile Thr
1               5                   10                  15
Ile Arg Leu Asp Asn Ser Leu Ile Tyr Pro Phe Leu Ser Ile Leu Leu
            20                  25                  30
Arg Tyr Leu His Arg Ala Ser Ser Ser Ser Tyr Asn Ile Val Asn Arg
        35                  40                  45
Gly Leu Tyr Ser Ser Asn Phe Leu Leu Ser Ser Tyr Ile Leu
    50                  55                  60
```

<210> 24446
<211> 65
<212> PRT
<213> A.fumigatus

<400> 24446

```
Leu Ile Ile Ser Ser Pro Ala Lys His Val Val Trp Asp Thr Leu Arg
1               5                   10                  15
Ser Ser Gly Thr Pro Ser Asp His Ser Ser Ala Pro Lys Trp Ala Cys
            20                  25                  30
Asp Gln Glu Val Ser Val Thr Lys Ala Pro Pro His Arg Ser Ala Leu
        35                  40                  45
Arg Val Ser His Ser Glu Thr Thr Asn His Thr Glu Ser Thr Ile Phe
    50                  55                  60
Arg
65
```

<210> 24447
<211> 243
<212> PRT
<213> A.fumigatus

<400> 24447
Asp Ala Lys Lys Arg Leu Cys Gly Ile Gln Pro Phe Gly Phe Val Ala
1 5 10 15
Ala Glu Arg Ile Glu Glu Leu Leu Asp Pro Asp His Gly Asp Leu Ile
20 25 30
Val Ile Gln Ala Arg Glu Arg Ala Pro Phe Thr Gly Gly Ser Thr Pro
35 40 45
Ile Gly Asp Leu Arg Arg Ala Leu His Thr Ala Ala Val Ser Ser Gly
50 55 60
Phe Lys Pro Ala Pro Thr Gly Phe Asp Phe Leu Trp Val Val Asp Phe
65 70 75 80
Pro Leu Phe Ser Pro Ser Ser Asp Ser Glu Pro Gly Gln Gly Gly Ala
85 90 95
Ala Gly Ile Ser Ser Thr His His Pro Phe Thr Ala Pro Lys Thr Ala
100 105 110
Ala Asp Val Asp Gln Leu Leu Thr Asp Pro Thr Lys Ala Val Ala Asp
115 120 125
His Tyr Asp Leu Val Val Asn Gly Val Glu Leu Gly Gly Gly Ser Arg
130 135 140
Arg Ile His Asp Ala Ala Val Gln Glu Phe Ile Leu Arg Asp Ile Leu
145 150 155 160
Gln Met Lys Pro Glu Arg Leu Ala Asp Phe Ser His Leu Leu Asp Ala
165 170 175
Leu Arg Ala Gly Cys Pro Pro His Ala Gly Leu Ala Leu Gly Phe Asp
180 185 190
Arg Leu Val Ala Val Met Leu Gly Lys Glu Ser Val Arg Asp Val Ile
195 200 205
Ala Phe Pro Lys Thr Gly Lys Gly Gly Asp Asp Ala Met Val Lys Ala
210 215 220
Pro Ser Met Met Thr Lys Glu Ala Leu Glu Thr Tyr His Leu Arg Leu
225 230 235 240
Lys Asp Glu

<210> 24448
<211> 79
<212> PRT
<213> A.fumigatus

<400> 24448
Glu Val Glu Pro Arg Gly Ser Gly Leu Glu Ser Gly Arg Asp Cys Ser
1 5 10 15
Gly Val Glu Cys Thr Ala Lys Val Ala Asp Trp Ser Gly Ala Thr Gly
20 25 30
Glu Gly Gly Ser Phe Thr Gly Leu Asp Asp Asp Gln Ile Ala Val Ile
35 40 45
Gly Ile Gln Glu Phe Leu Asn Ala Phe Ser Ser Tyr Lys Thr Glu Trp
50 55 60
Leu Asp Ala Thr Gln Thr Phe Leu Gly Val Leu His Glu Asp Thr
65 70 75

<210> 24449
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24449
Leu Gly Gly Ile Leu Phe Ala Trp Gln Phe Pro His Phe Asn Ala Leu
1 5 10 15
Ser Tyr Met Ile Arg Glu Glu Tyr Lys Ala Ala Gly Tyr Arg Met Leu
20 25 30
Ala Trp Thr Asn Pro Ala Ala Asn Ala Arg Val Ala Leu Arg Tyr Ser
35 40 45
Leu Leu Met Phe Pro Phe Ser Val Gly Leu Trp Trp Val Gly Val Val
50 55 60
Gly Asn Gly Phe Leu Val Gly Ser Thr Val Ala Asn Gly Trp Leu Val
65 70 75 80
Lys Glu Ala Tyr Lys Phe Trp Arg His Gln Gly Ala Asn Gly Ser Ala
85 90 95
Arg Arg Leu Phe Trp Ala Ser Ile Trp Gln Leu Pro Ile Leu Leu Val
100 105 110
Gly Gly Leu Val Thr Lys Lys Gly Leu Trp Asp Gly Val Trp Asn Asn
115 120 125
Val Phe Gly Gln Pro Val Glu Asp Glu Asp Asp Tyr Leu Trp Glu Asp
130 135 140
Glu Asp Glu Val Ala Glu Ala Glu Arg Arg Met Ile Pro Ala Lys Thr
145 150 155 160
Ser Ser Ser

<210> 24450
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24450
Val Leu Tyr His Asn Leu Leu Ala Leu Thr Gln Asp Tyr Ile Gly Val
1 5 10 15
Ser Met Arg Gln Leu Xaa Thr Asp Arg Pro Lys Lys Ala Arg Glu Lys
20 25 30
Arg Leu Gly Ile Met Ser Ile Leu Met Tyr Asn Ser Ala Glu Arg Pro
35 40 45
Ala Ala Thr Ala Ser Ser Tyr Thr His Ser Ser Phe Lys Arg Arg Trp
50 55 60

<210> 24451
<211> 105
<212> PRT
<213> A.fumigatus

<400> 24451
Val Ser Asn Ala Ser Phe Val Ile Met Leu Gly Ala Leu Thr Met Ala
1 5 10 15
Ser Ser Pro Pro Leu Pro Val Leu Gly Asn Ala Met Thr Ser Arg Thr
20 25 30
Asp Ser Leu Pro Ser Met Thr Ala Thr Ser Arg Ser Lys Pro Ser Ala
35 40 45

Ser Pro Ala Cys Gly Gly His Pro Ala Arg Lys Ala Ser Ser Arg Trp
50 55 60
Glu Lys Ser Ala Ser Leu Ser Gly Phe Ile Trp Arg Ile Ser Arg Arg
65 70 75 80
Met Asn Ser Cys Thr Ala Ala Ser Trp Ile Arg Arg Leu Pro Pro Pro
85 90 95
Asn Ser Thr Pro Phe Thr Thr Arg Ser
100 105

<210> 24452
<211> 260
<212> PRT
<213> A.fumigatus

<400> 24452
Ala Gln Ser Pro Gln Thr Ala Ala Ala Ala Asn Pro Gln Phe Thr Tyr
1 5 10 15
Pro Ala Pro Tyr Ala Gly Thr Gly Ser Pro Phe Pro Gln Ala Ala Ser
20 25 30
Pro Val Tyr Pro Asn Phe Ser Pro Gly Ala Gln Ala Gln Tyr Pro Ile
35 40 45
Gln His Thr Pro Thr Gly Tyr Thr Pro Gln Pro Tyr Pro Val Gly Thr
50 55 60
Ala Pro Gln Ala Thr Pro Pro Tyr Gly Thr Thr Pro Pro Pro Phe Pro
65 70 75 80
Leu Pro Pro His Gln Gln Ala Ser Pro Ser His Thr Val Pro Gln Thr
85 90 95
Ala Pro Ala Phe Pro Gln Arg Ser Gly Ser Leu Pro Ala Ala Pro Ser
100 105 110
Leu Pro Gln Arg Pro Ala Phe Gln Pro Pro Pro Val Asn Ala Tyr Gln
115 120 125
Met Gln Gln Ile His Met Gly His Pro Leu Pro Asn Ala Gly Val His
130 135 140
Thr Ala Val Pro Asp Gly Gly Arg Ala Pro Gly Ala Glu Ala Ala Ser
145 150 155 160
Ile Ser Ser Ser Val Asn Asp Leu Val Ser Gly Ala Ala Lys Glu Ala
165 170 175
Asp Gln Ala Thr Ala Lys Ala Ala Ala Ser Ala Gly Ala Thr Thr Glu
180 185 190
Glu Lys Pro Ser Lys Lys Asp Lys Gly Lys Pro Thr Arg Leu Val Tyr
195 200 205
Ser Asp Asn Glu Thr Ser Pro Glu Glu Lys Met Ala Arg Leu Ser Arg
210 215 220
Tyr Ala Phe Val Pro Asp Arg Arg Gly Glu Thr Thr Leu Glu Glu Leu
225 230 235 240
Pro Ala Ala Val Val Val Gly Thr Ile Arg Glu Ser Asp Lys Ile Phe
245 250 255
Asp Ser Ala Gln
260

<210> 24453
<211> 65
<212> PRT
<213> A.fumigatus

<400> 24453

```
Asp Ala Cys Asn Met Ile Ile Asn Ala Arg Pro Asn Asn Asp Leu Cys
1               5                  10                  15
Thr Glu Ser Met Pro Lys Phe Ser Asp Ile Asn Asn Thr Gly Tyr Leu
            20                  25                  30
Ala Met Phe Leu Leu Leu Thr Ser Thr Gln Thr Asp Ser Ser Ala Gln
        35                  40                  45
Ser Trp Val Ser Asn Val Cys Gly Asn Leu Ile Arg Arg Arg Asn Ile
    50                  55                  60
Phe
65
```

<210> 24454
<211> 205
<212> PRT
<213> A.fumigatus

```
<400> 24454
Arg Gly Arg Ala Ala Pro Val Val Lys Thr Met Asp Lys Asn Ile Leu
1               5                  10                  15
Asp Gly Leu Leu Asp Leu Glu Asp Glu Phe Tyr Gln Glu Gly Tyr Asn
            20                  25                  30
Leu Gly Ala Thr Asp Gly Ala Gln Ala Gly Tyr Thr Glu Gly Ser Val
        35                  40                  45
Phe Ala Val Glu Lys Gly Phe Glu Lys Phe Leu Glu Leu Gly Arg Leu
    50                  55                  60
Tyr Gly Lys Ala Leu Val Trp Ala Gln Arg Leu Ala Asp Ser Glu Ile
65                  70                  75                  80
Ser Arg Asn Ser Ser Gln Glu Ser Asp Gly Thr Asp Thr Arg Lys Ser
                85                  90                  95
Gln Pro Tyr Asn Glu Gly Asp Leu Leu Leu Glu Pro Phe Val Cys Lys
            100                 105                 110
Glu Met Leu Pro Leu Pro Ser Ser Ser Arg Leu Ala Lys Asn Leu Glu
        115                 120                 125
Ile Leu Leu Glu Leu Val Asp Pro Ala Ser Leu Pro Met Glu Asn Thr
    130                 135                 140
Glu Glu Ala Val Thr Asp Val Asp Glu Arg Leu Lys Gly Ala Ala Ile
145                 150                 155                 160
Lys Ala Lys Leu Ile Gln Arg Ala Leu Gly Glu Arg Glu Gly Ala Ser
                165                 170                 175
Asp Ile His Pro Asp Val Lys Asp Thr Gln Val Ala Gly Asp Gly Thr
            180                 185                 190
Gly Ser Ile Glu Asp Ile Ser Ser Leu Lys Val Arg His
        195                 200                 205
```

<210> 24455
<211> 355
<212> PRT
<213> A.fumigatus

```
<400> 24455
Tyr Pro Arg Asp Gly Leu Leu Gly Arg Gly Glu Glu Gln Lys Glu Ser
1               5                  10                  15
Ala Glu Ala Arg Thr Glu Leu Gly Leu Thr Gly Arg Lys Thr Ile Val
            20                  25                  30
Phe Cys Asp Glu Ile His Arg Phe Ser Lys Ser Gln Gln Asp Val Phe
        35                  40                  45
```

```
Leu Gly Pro Val Glu Ser Gly Gln Ile Thr Leu Ile Gly Ala Thr Thr
    50                  55                  60
Glu Asn Pro Ser Phe Lys Val Gln Asn Ala Leu Leu Ser Arg Cys Arg
65                  70                  75                  80
Thr Phe Thr Leu Ser Lys Leu Ser Asp Glu Asp Val Lys Ser Ile Leu
                85                  90                  95
Asp Arg Ala Leu Arg Val Glu Gly Pro Asn Tyr Ser Pro Ser Ser Leu
            100                 105                 110
Val Asp Asp Glu Leu Ile Glu Tyr Leu Ala Arg Phe Ser Asp Gly Asp
        115                 120                 125
Ala Arg Thr Ser Leu Asn Leu Leu Glu Leu Ala Met Asp Leu Ser Lys
    130                 135                 140
Arg Pro Ser Met Thr Lys Glu Glu Leu Lys Arg Ser Leu Thr Lys Thr
145                 150                 155                 160
Leu Val Tyr Asp Arg Ala Gly Asp Gln His Tyr Asp Thr Ile Ser Ala
                165                 170                 175
Phe His Lys Ser Ile Arg Gly Ser Asp Pro Asp Ala Ala Leu Tyr Tyr
            180                 185                 190
Leu Ala Arg Met Leu Gln Ser Gly Glu Asp Pro Leu Tyr Ile Ala Arg
        195                 200                 205
Arg Leu Val Val Val Ala Ser Glu Asp Ile Gly Leu Ala Asp Asn Ser
    210                 215                 220
Met Leu Pro Leu Ala Ile Ala Thr His Ser Ala Val Glu Lys Ile Gly
225                 230                 235                 240
Leu Pro Glu Ala Arg Ile Asn Leu Ala His Ala Thr Val Ala Met Ala
                245                 250                 255
Leu Ser Lys Lys Ser Thr Arg Val Tyr Arg Ala Leu Asn Asn Thr Phe
            260                 265                 270
Ala Ala Leu Ala Glu Pro Gly Val Ala Gly Leu Pro Val Pro Ile His
        275                 280                 285
Leu Arg Asn Ala Pro Thr Arg Leu Met Lys Glu Leu Gly Tyr Gly Lys
    290                 295                 300
Glu Tyr Lys Tyr Asn Pro Asn Tyr Leu Asp Gly Gln Val Val Gln Asp
305                 310                 315                 320
Tyr Leu Pro Glu Lys Leu Leu Gly Arg Lys Phe Leu Glu Asp Arg Asp
                325                 330                 335
Leu Gly Thr Lys Ile Asp Pro Asp Leu Ile Ala Gln Asp Glu Arg His
            340                 345                 350
Leu Glu Pro
        355
```

<210> 24456
<211> 261
<212> PRT
<213> A.fumigatus

```
<400> 24456
His Asn Asp Lys Val Gln Glu Ile Ser Ile Asp Tyr Ser Glu Cys Ala
1               5                   10                  15
Glu Lys Ala Pro Ser Tyr Pro Val Ser Ile Ala Asp Arg Val Lys Ser
            20                  25                  30
Ser Phe Lys Ser Ser Thr Gly Gln Ser Thr Pro Thr Trp Glu Arg Arg
        35                  40                  45
Ile Glu Asn Gly Thr Thr Ile Cys Arg Leu Ser Phe Glu Val Pro Asp
    50                  55                  60
Asp Leu Gly Pro Pro Val Phe Leu Tyr Tyr Arg Leu Thr Asn Phe Tyr
```

```
65                  70                  75                  80
Gln Asn His Arg Arg Tyr Val Lys Ser Leu Asp Ile Asp Gln Leu Lys
                85                  90                  95
Gly Lys Ala Val Asp Asn Lys Thr Ile Asp Gly Gly Ser Cys Asp Pro
            100                 105                 110
Leu Lys Leu Asp Pro Thr Gly Lys Ala Tyr Tyr Pro Cys Gly Leu Ile
        115                 120                 125
Ala Asn Ser Gln Phe Asn Asp Thr Ile His Ser Pro Glu Leu Leu Ser
    130                 135                 140
Asp Leu Asn Pro Thr Val Tyr Phe Met Thr Asn Lys Gly Ile Ala Trp
145                 150                 155                 160
Asp Ser Asp Lys Glu Leu Ile Lys Thr Thr Gln Tyr Lys Pro Trp Glu
                165                 170                 175
Val Val Pro Pro Pro Asn Trp His Asp Arg Tyr Pro Asn Gly Tyr Ile
            180                 185                 190
Asp Gly Ile Pro Asp Leu His Glu Asp Glu Asp Phe Met Val Trp Met
        195                 200                 205
Lys Thr Ala Ala Leu Pro Ala Phe Ser Lys Leu Ser Arg Arg Asn Asp
    210                 215                 220
Ser Ala Pro Met Lys Ala Gly Ser Tyr Arg Leu Asp Ile Glu Asp Arg
225                 230                 235                 240
Ser Phe Ala Leu Cys Asn Thr Pro Tyr Gln Leu Ala Asn Trp Ala Leu
                245                 250                 255
Arg Val Ser Gly Tyr
            260
```

<210> 24457
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24457

```
Thr Ser His Ala Leu Lys Thr Leu Leu Ile Gln Arg Leu Asn Asn Leu
1               5                   10                  15
Ser Leu Ala Pro Val Asp Ala Leu Ser Thr Ala Asp Pro His Leu Thr
            20                  25                  30
Arg Ser Gly Ser Gly Leu Val Pro Asn Leu Gly Ile Thr Leu Val Leu
        35                  40                  45
Val Ser Val Ser Leu Leu Val Ile Cys Thr Ser Gln Leu Lys Gly Gln
    50                  55                  60
Ala Trp
65
```

<210> 24458
<211> 182
<212> PRT
<213> A.fumigatus

<400> 24458

```
Trp Cys Gly Thr Phe Gln Pro Arg Gly Glu Asp Glu Pro Arg Ala Cys
1               5                   10                  15
Arg Arg Leu Ala His Arg Arg Lys Tyr Ser Pro Ile Ala Ser Thr Gln
            20                  25                  30
Ile Ser Glu Pro His Arg Leu Phe Gly Arg Lys Ile Asp His Asp Glu
        35                  40                  45
Pro Ile Asp Thr Gly Leu Leu Thr Ile Leu Glu His Thr Leu Leu Thr
```

```
    50                  55                  60
Val Pro Gln Asp Arg Val Ile Val Ala His Gln Lys Gln Arg Gly Leu
65                  70                  75                  80
Glu Ala Ser Ala Ser Ser Leu Thr Asp His Val Gln His Cys Gly Asp
                85                  90                  95
Arg Asp Ala Ile Gly Gln Ser Leu Gly Val Gly Pro Leu Asn Gly Gly
            100                 105                 110
Ala Ile Cys Asp Gly Ile Cys Glu Gly Asn Ala Gln Phe Asp Asp Ile
        115                 120                 125
Cys Arg Asn Pro Thr Asp Cys Val Ser Ile Glu Ala Ser Trp Ser Gly
    130                 135                 140
Val Arg Glu Cys Glu Cys Glu Gly Ala Arg Arg Gly Lys Glu Pro Tyr
145                 150                 155                 160
Leu Arg Leu His Phe Leu Ala Pro Glu Glu Cys Gln Leu Ser Pro Arg
                165                 170                 175
Arg Trp Asp Ser Arg Leu
            180

<210> 24459
<211> 79
<212> PRT
<213> A.fumigatus

<400> 24459
Ala Val Ser Arg Ser Pro Phe Thr His Ala Met Glu Gly Ile Lys Ser
1               5                   10                  15
Thr Phe Ala Arg Cys Gln Glu Gln Lys Arg Ala Ala Leu Val Ala Tyr
            20                  25                  30
Ile Thr Ala Gly Tyr Pro Thr Val Glu Glu Thr Val Asp Ile Leu Leu
        35                  40                  45
Gly Leu Glu Asn Gly Gly Ala Gly Met Ala Pro Tyr Pro Ala Ala His
    50                  55                  60
Pro His Ile Arg Thr Pro Gly Pro Arg Thr Arg Lys Pro Gln Cys
65                  70                  75

<210> 24460
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24460
Lys Met Glu Ala Gln Val Trp Leu Leu Thr Pro Pro Arg Thr Leu Thr
1               5                   10                  15
Phe Ala Leu Pro Asp Pro Gly Pro Gly Ser Leu Asn Ala Asn Ala Ile
            20                  25                  30
Arg Trp Ile Ser Thr Asp Ile Ile Glu Leu Gly Ile Pro Phe Thr Asp
        35                  40                  45
Pro Ile Ala Asp Gly Pro Thr Ile Gln Arg Ala Asn Thr Gln Ala Leu
    50                  55                  60
Ala Asn Gly Val Thr Val Thr Thr Val Leu Asn Met Val Arg Gln Ala
65                  70                  75                  80
Arg Ser Arg Gly Leu Lys Ala Pro Leu Leu Leu Met Gly Tyr Tyr Asn
                85                  90                  95
Pro Val Leu Arg Tyr Gly Glu Glu Arg Met Leu Lys Asp Cys Lys Glu
            100                 105                 110
Ala Gly Val Asn Gly Phe Ile Met Val Asp Leu Pro Pro Glu Glu Ala
```

```
        115                 120                 125
Val Arg Phe Arg Asp Leu Cys Ala Ser Asn Gly
    130                 135

<210> 24461
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24461
Leu Cys Asp Thr Pro Ser Pro Pro Leu Pro Ile Ser Arg His Ile His
1               5                  10                  15
Pro Pro Thr Met Ser Asp Leu Tyr Ala Thr Ile Glu Thr Pro Gln Gly
            20                  25                  30
Lys Tyr Glu Gln Pro Leu Gly Leu Tyr Val Phe Pro Leu His Ser Ile
        35                  40                  45
Val Thr Tyr Ser Ile Leu His Val Val Leu Ile Ala Ser Arg Ser
    50                  55                  60

<210> 24462
<211> 220
<212> PRT
<213> A.fumigatus

<400> 24462
Leu Leu Leu Val Pro Arg Phe Ile Asn Asn Glu Phe Val Lys Gly Val
1               5                  10                  15
Glu Gly Lys Thr Phe Glu Thr Ile Asn Pro Ala Thr Glu Gln Pro Ile
            20                  25                  30
Val Ala Val His Glu Ala Thr Glu Lys Asp Val Asp Ile Ala Val Ala
        35                  40                  45
Ala Ala Arg Lys Ala Phe Glu Gly Pro Trp Arg Gln Val Thr Pro Ser
    50                  55                  60
Asp Arg Gly Arg Met Leu Asn Lys Leu Ala Asp Leu Met Glu Arg Glu
65                  70                  75                  80
Ile Glu Thr Leu Ala Ala Ile Glu Ala Leu Asp Asn Gly Lys Ala Phe
                85                  90                  95
Ser Ile Ala Lys Leu Asp Met Ala Gly Ala Ala Gly Cys Ile Arg Tyr
            100                 105                 110
Tyr Ala Gly Trp Ala Asp Lys Ile His Gly Gln Thr Ile Asp Val Asn
        115                 120                 125
Pro Glu Thr Leu Thr Tyr Thr Arg His Glu Pro Ile Gly Val Cys Gly
    130                 135                 140
Gln Ile Ile Pro Trp Asn Phe Pro Met Leu Met Trp Ser Trp Lys Ile
145                 150                 155                 160
Gly Pro Ala Val Ala Thr Gly Asn Thr Val Val Leu Lys Thr Ala Glu
                165                 170                 175
Gln Thr Pro Leu Ser Ala Leu Tyr Ala Ala Lys Leu Ile Lys Glu Ala
            180                 185                 190
Gly Phe Pro Pro Gly Val Ile Asn Ile Ile Ser Gly Phe Gly Arg Thr
        195                 200                 205
Ala Gly Ala Ala Ile Ala Ser His Met Asp Val Asp
    210                 215                 220

<210> 24463
<211> 111
```

<212> PRT
<213> A.fumigatus

<400> 24463
Arg Met Gln Pro Ala Ala Pro Ala Met Ser Ser Leu Ala Met Leu Lys
1 5 10 15
Ala Leu Pro Leu Ser Arg Ala Ser Met Ala Ala Arg Val Ser Ile Ser
20 25 30
Arg Ser Ile Arg Ser Ala Ser Leu Leu Ser Ile Arg Pro Arg Ser Glu
35 40 45
Gly Val Thr Cys Leu Gln Gly Pro Ser Asn Ala Leu Arg Ala Ala Ala
50 55 60
Thr Ala Met Ser Thr Ser Phe Ser Val Ala Ser Trp Thr Ala Thr Met
65 70 75 80
Gly Cys Ser Val Ala Gly Leu Met Val Ser Lys Val Leu Pro Ser Thr
85 90 95
Pro Phe Thr Asn Ser Leu Leu Met Asn Leu Gly Thr Arg Ser Asn
100 105 110

<210> 24464
<211> 226
<212> PRT
<213> A.fumigatus

<400> 24464
Val Asp Val His Met Ala Ser Asn Ser Ser Ser Ser Ser Thr Ser Glu
1 5 10 15
Ala Gly Asn Asn Val Asp Asp Ala Arg Gly Glu Ala Ser Phe Leu Asp
20 25 30
Gln Leu Gly Gly Ile Glu Gly Gly Gln Arg Ser Leu Leu Ser Gly Leu
35 40 45
Glu Asp Asn Ser Val Thr Ser Gly Asp Gly Arg Thr Asp Leu Pro Arg
50 55 60
Pro His Gln His Gly Glu Val Pro Arg Asn Asp Leu Thr Ala Asp Thr
65 70 75 80
Asp Gly Phe Val Ala Ser Val Gly Glu Cys Leu Arg Val Asp Val Asn
85 90 95
Gly Leu Ala Val Asp Leu Val Ser Pro Ala Ser Ile Val Ala Asn Ala
100 105 110
Ala Ser Ser Thr Gly His Val Gln Leu Gly Asp Ala Glu Gly Leu Ala
115 120 125
Val Val Lys Gly Leu Asn Gly Ser Glu Gly Leu Asp Phe Ala Leu His
130 135 140
Gln Ile Gly Gln Leu Val Lys His Thr Ala Thr Val Arg Gly Ser Asn
145 150 155 160
Leu Ser Pro Gly Thr Leu Glu Cys Leu Ala Ser Ser Gly Asn Gly Asn
165 170 175
Val Asp Ile Leu Leu Ser Gly Phe Val Asp Ser Asn Asn Gly Leu Leu
180 185 190
Gly Gly Gly Val Asp Gly Leu Glu Gly Leu Ala Phe Asn Thr Leu His
195 200 205
Lys Leu Ile Val Asp Glu Pro Arg Asn Glu Lys Gln Leu Glu Arg His
210 215 220
Glu Glu
225

<210> 24465
<211> 181
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (111)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24465
Gln Ser Lys Thr Pro Thr Thr Lys Val Leu Asp Val Asn Leu Thr Gly
1 5 10 15
Cys Leu Tyr Val Ala Arg Ile Ala Ser Val Tyr Leu Arg Gln Asn Arg
20 25 30
Pro Glu Asn Ala Asp Arg Ser Ile Thr Leu Ile Ser Ser Val Ala Gly
35 40 45
Phe Lys Glu Ser Pro Gly Met Phe Val Tyr Gln Ala Ser Asn His Gly
50 55 60
Val Leu Gly Leu Met Arg Ser Leu Arg Leu Tyr Leu Ser Ser Pro Thr
65 70 75 80
His His Ile Arg Val Asn Ala Ile Cys Pro Trp Met Thr Thr Thr Ala
85 90 95
Met Val Lys Gly Val Gln Glu Ala Trp Met Lys Ala Lys Leu Xaa Cys
100 105 110
Asn Thr Pro Ala Asp Val Ala Tyr Ile Ile Ala Gly Val Leu Ala Asp
115 120 125
Ser Ala Leu Asn Gly Lys Ser Met Tyr Val Glu Gly Gly Arg Ala Trp
130 135 140
Glu Ile Glu Ala Asn Ile Asp Arg Leu Glu Pro Gln Trp Leu Gly Glu
145 150 155 160
Glu Gln Ser Arg Ser Leu Ala Gln Gly Gln Ala Val Leu Gly Ser Gly
165 170 175
Met Asp Trp Ala Gln
180

<210> 24466
<211> 188
<212> PRT
<213> A.fumigatus

<400> 24466
Trp Glu Ala Leu Phe Trp Leu Ile Ser Asp Gly Ala Ser Val Leu Pro
1 5 10 15
Val Asn Thr Ser Lys Met Ala Thr Gly Gly Ser Ser Ala Gly Gly Asn
20 25 30
Leu Ala Ser Ile Ile Thr His Lys Ala Leu Thr Leu Ser Pro Pro Val
35 40 45
Arg Phe His Ala Gln Leu Leu Ser Val Pro Val Met Asp Asn Thr Ala
50 55 60
Thr Val Asp Asn Asn Glu Ser Tyr Arg Leu Tyr Glu His Thr Pro Ala
65 70 75 80
Leu Pro Ala Ala Lys Met Ile Trp Tyr Arg Asn His Tyr Leu Pro Asn
85 90 95
Ile Ala Asp Arg Ala Asn Pro Glu Ala Ser Pro Leu Phe Tyr Asp Asp
100 105 110

```
Asp Trp Ser Gln Leu Pro Pro Ala Leu Ile Met Val Gly Glu Leu Asp
        115                 120                 125
Val Leu Arg Thr Glu Gly Glu Gln Tyr Ala Ala Lys Leu Arg Lys Thr
    130                 135                 140
Gly Val Lys Val Asp Leu Gln Val Met Lys Gly Met Pro His Pro Phe
145                 150                 155                 160
Leu Ala Met Asp Ala Val Leu Lys Glu Gly Arg Arg Ser Ile Thr Leu
                165                 170                 175
Met Cys Asp Thr Leu Lys Arg Ile Phe Trp Glu Ser
            180                 185
```

<210> 24467
<211> 248
<212> PRT
<213> A.fumigatus

<400> 24467

```
Lys Ala Val Asp Gln Arg Thr Leu Glu Arg Tyr Gln Arg Glu Ala Glu
1               5                   10                  15
Lys Ile Gly Lys Gly Ser Phe Ala Leu Ala Trp Val Leu Asp Gln Gly
            20                  25                  30
Thr Glu Glu Arg Ala Arg Gly Val Thr Ile Asp Ile Ala Met Asn Lys
        35                  40                  45
Phe Glu Thr Glu Asn Thr Val Phe Thr Ile Val Asp Ala Pro Gly His
    50                  55                  60
Arg Asp Phe Val Pro Asn Met Ile Ala Gly Ala Ser Gln Ala Asp Phe
65                  70                  75                  80
Ala Val Leu Val Ile Asp Ser Gly Thr Gly Asn Phe Glu Ser Gly Leu
                85                  90                  95
Arg Gly Gln Thr Lys Glu His Ala Leu Leu Val Arg Ser Met Gly Val
            100                 105                 110
Gln Arg Ile Ile Ile Ala Val Asn Lys Met Asp Ala Val Glu Trp Ser
        115                 120                 125
Arg Asp Arg Tyr Glu Glu Ile Glu Gln Gln Ile Ser Ser Phe Leu Thr
    130                 135                 140
Thr Ala Gly Phe Gln Ala Lys Asn Ile Ala Phe Val Pro Cys Ser Gly
145                 150                 155                 160
Phe Arg Gly Asp Asn Val Thr Arg Arg Ser Asp Asp Pro Asn Ala Ser
                165                 170                 175
Trp Tyr Thr Gly Arg Thr Leu Val Glu Glu Leu Glu Ala Thr Glu Pro
            180                 185                 190
Tyr Ser Tyr Ala Leu Asp Lys Pro Leu Arg Met Thr Ile Ser Asp Val
        195                 200                 205
Phe Arg Gly Gly Val Gln Asn Pro Leu Ser Ile Ser Gly Arg Ile Asp
    210                 215                 220
Ala Gly Ser Leu Gln Val Gly Asp Gln Ile Leu Thr Met Pro Ser Gly
225                 230                 235                 240
Glu Thr Ala Thr Ile Arg Ser Leu
                245
```

<210> 24468
<211> 160
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (69),(77),(98)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24468
Thr Pro Pro Thr Ile Asn Gln Asn Gln Ile Arg Lys Phe Ser Pro Ser
1 5 10 15
Gly Leu Val Pro Leu Leu Glu Cys His Ser Leu Ser Ser Thr Met Arg
20 25 30
Ile Asn Asp Ser Leu Ala Ile Cys Glu Phe Leu Ala Glu Ser Asn Pro
35 40 45
His Leu Ser Leu Trp Pro Pro Asp Ala Phe Phe Arg Thr Met Ala Arg
50 55 60
Ser Pro Ala Ala Xaa Met His Phe Gly Phe Ala Ala Xaa Arg Tyr Thr
65 70 75 80
Tyr Pro Thr Asn Phe Ile Val Gln Tyr Thr Gly Asn Ile Pro Val Pro
85 90 95
Glu Xaa Ala Lys Lys Asp Ile Gln Arg Leu Phe Thr Ile Trp Asp Asn
100 105 110
Ala Arg Gln Ala Ala Lys Thr Arg Leu Ala Glu Leu Gly Glu Lys Asp
115 120 125
Asp Gly Phe Leu Phe Gly Gly Phe Ser Ile Ala Asp Ala Phe Phe Trp
130 135 140
Pro Val Leu Trp Val Arg Ala Asn Ser Leu Val Tyr Cys Val Cys Tyr
145 150 155 160

<210> 24469
<211> 77
<212> PRT
<213> A.fumigatus

<400> 24469
Arg Phe Arg Thr Tyr Asn Leu Pro Leu Glu Gly Ala Ser Ala Asp Val
1 5 10 15
Val Lys Trp Ile Glu Thr Met Trp Asn Asp Pro Thr Met Gln Lys Leu
20 25 30
Ala His Lys Tyr Tyr Arg Gln Ala Glu Leu Pro Glu Ser His Met Glu
35 40 45
Arg Tyr Glu Asn Ile Phe Pro Asp Arg Asp Asp Ile Gln Tyr Ala Arg
50 55 60
Phe Pro Glu Asp Trp Lys Phe Thr Val Pro Gly Lys Leu
65 70 75

<210> 24470
<211> 276
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24470
Ser Tyr Thr Lys Leu Xaa Thr His Gly Gln Val Asn Ile Asp Ser Asp
1 5 10 15

```
His His Pro Ser Leu Ile Gly Leu Leu Leu Ser Gly Pro Phe Phe Arg
            20                  25                  30
Arg Gln Ser Thr Gly Gly His Ile Leu Leu Phe Pro Ser Val Glu Leu
        35                  40                  45
Ser His Glu Gly His His His Gln Lys Gly Pro Phe Thr Arg Val Lys
    50                  55                  60
Glu Tyr Leu Gly Gln Arg Arg Ser Arg Val Thr Ser Cys Ile Ala Ser
65                  70                  75                  80
Gly Trp Glu Lys Ser Thr Thr Ala Val Tyr Ser Arg Leu Pro Ser Arg
                85                  90                  95
Ile Gln Lys Pro Val Ser Val Cys Ala Arg Gly Ile Lys Thr Phe Phe
            100                 105                 110
Arg Gly Leu Trp Asp Phe Met Asn Pro Pro Leu Trp Ala Met Leu Val
        115                 120                 125
Ser Ile Ile Val Ala Ser Val Pro Ser Leu Gln His Leu Phe Phe Asp
    130                 135                 140
Glu Asp Thr Phe Val Asn Asn Ser Val Thr Arg Ala Ile Asn Gln Asn
145                 150                 155                 160
Ala Gln Val Ala Val Pro Leu Ile Leu Val Val Leu Gly Ala Asn Leu
                165                 170                 175
Ala Arg Asn Thr Leu Ser Gln Glu Ala Leu Glu Asp Met Pro His Pro
            180                 185                 190
Lys Glu Glu Asn Lys Leu Ile Ile Ala Ser Leu Val Ala Arg Met Leu
        195                 200                 205
Leu Pro Thr Leu Val Met Ala Pro Phe Leu Ala Leu Leu Ala Lys His
    210                 215                 220
Val Pro Ile Ser Ile Leu Gly Asp Pro Ile Phe Ile Ile Val Cys Phe
225                 230                 235                 240
Leu Leu Thr Gly Ala Pro Ser Ala Leu Gln Leu Ala Gln Ile Cys Gln
                245                 250                 255
Ile Asn Asn Val Tyr Val Ser Ala Met Ser Lys Leu Leu Phe Gln Ser
            260                 265                 270
Tyr Val Val Trp
        275
```

<210> 24471
<211> 88
<212> PRT
<213> A.fumigatus

```
<400> 24471
Leu Val Arg Asn Arg Thr Glu Ile Phe Gly Thr Asp Gly Thr Lys Pro
1               5                   10                  15
Leu Arg Asn Val Tyr Met Val Gly Asp Asn Pro Glu Ser Asp Ile Arg
            20                  25                  30
Gly Ala Asn Ser Tyr Arg Ser Gly Asn Gly Ser Asn Trp His Ser Ile
        35                  40                  45
Leu Val Arg Thr Gly Val Tyr Arg Gly Gly Glu Pro Ala Trp Thr Pro
    50                  55                  60
Lys Val Ile Val Asp Asp Val Lys Lys Ala Val Glu Trp Gly Ile Lys
65                  70                  75                  80
Ser Ser Gly Trp Lys Leu Thr Glu
                85
```

<210> 24472
<211> 109

<212> PRT
<213> A.fumigatus

<400> 24472
Asp Pro Phe Asp Ser Pro Arg Gln Pro Ile Leu Ala Val Ser Pro Arg
1 5 10 15
Arg Gly Ser Phe Arg Val Thr Cys Leu Tyr Ser Cys Ala Leu Gly Ile
20 25 30
Ser Leu Tyr Gly Cys Leu Gly Lys Ala Asn Glu Met Tyr Leu Asn Arg
35 40 45
Phe Tyr Asn Asn Ala Thr Cys Ser Glu Ser Asn Ser Ile Gln Lys Val
50 55 60
Arg Gly Ile Ser Asp Met Asp Leu Leu Lys Arg Arg Ser Ala Asn Thr
65 70 75 80
Thr Tyr Ile His Ala Leu Leu Ser Ser Thr Gly Ile Asn Pro Asn Ala
85 90 95
Met Gln Ser Val Arg Ser Ile Glu Asn Glu Leu Ser Ser
100 105

<210> 24473
<211> 84
<212> PRT
<213> A.fumigatus

<400> 24473
Phe Gly Val Glu Asp Tyr Thr Ile Trp Thr Ile Tyr Gln Ser Arg Pro
1 5 10 15
Ala Ile Asn Val Phe Ser Gly Phe Pro Pro Pro Ser Leu Phe Leu Val
20 25 30
Cys Asp Leu Leu Leu Ser Ala Ser Leu Ala Asp Asp Pro Val Ser Leu
35 40 45
Ile Val Phe Phe His His Ser Pro Pro Leu Leu Thr Ile Tyr Leu Phe
50 55 60
Ser Val Phe His Gln Phe Ile Ser Leu Cys His Arg Thr Thr Pro Tyr
65 70 75 80
Phe Ser Asp Tyr

<210> 24474
<211> 179
<212> PRT
<213> A.fumigatus

<400> 24474
Pro Val Thr Phe Ser Pro Gly Cys Phe Ala Leu Asp Arg Ile Leu Gly
1 5 10 15
Pro Pro Ser Lys Ser Arg Leu Leu Ser Pro His Ile Thr Arg Pro Ala
20 25 30
Leu Ser Pro Leu Leu Leu Leu Arg Leu Cys Pro Ser Ile Phe Pro Ala
35 40 45
Gly Cys Ser Ser Cys Leu Leu Thr Ala Ser Leu Gln Ile Ile Leu Ala
50 55 60
Leu Ile Leu Leu Phe Met Ala Asp Thr Cys Ile Val Cys Leu Gly Asp
65 70 75 80
Leu Gly Glu Ser Ala Ser Asp Ser Leu Ala Ile Ala Ala Glu Ala Val
85 90 95

```
Pro Arg Pro Asp Leu Gln Val Glu Gly Lys Ser Ser Asp Ala Ser Thr
            100                 105                 110
Lys Thr Gly Gly Val Asp Asp Asn Glu Asp Ala Gly Gln Ile Ala Gln
        115                 120                 125
Leu Leu Pro Cys Gly His Ile Leu His Asn Asn Cys Leu Lys Pro Trp
    130                 135                 140
Val Glu Arg Ala Asn Ser Cys Pro Ile Cys Arg Arg Ser Phe Asn Leu
145                 150                 155                 160
Val Glu Leu Ser Asp Arg Leu Gly Gly Met Ser Phe His Phe His Leu
                165                 170                 175
Thr Leu Thr
```

<210> 24475
<211> 95
<212> PRT
<213> A.fumigatus

<400> 24475

```
Thr Pro Phe Ser Ser Thr Thr Ile Val Arg Ile Leu Thr Ile His Tyr
1               5                   10                  15
Val His Gln Thr Phe Pro Tyr Ile Tyr Thr Ser Arg Leu Thr Asn Leu
            20                  25                  30
Ile His Arg Ala Val Phe Ser Leu Ile Ile Ile Asn Lys Ala Gly Gly
        35                  40                  45
Leu Ile Tyr Gln Arg Glu Phe Gln Pro Gly Leu Arg Lys Leu Ser Thr
    50                  55                  60
Asn Asp Tyr Leu Val Leu Ala Gly Thr Phe His Gly Tyr Val Ala Ser
65                  70                  75                  80
Asn Tyr Arg Arg Ala Thr Gly Glu Ser Leu Phe Glu Ser Asn Cys
                85                  90                  95
```

<210> 24476
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24476

```
Arg Lys Val Lys Pro Arg Ala Val Lys Tyr Gly Leu Asp His Trp Lys
1               5                   10                  15
Lys Phe Tyr Leu Pro Asp Ser Gln Leu Tyr Glu Ala Val Lys Leu Leu
            20                  25                  30
His Lys Gly Ser Leu Ile Ser Ala Asp Asn Ile Asp Met Pro Glu Leu
        35                  40                  45
Leu Asp Thr Trp Phe Met Ser Arg Leu Gly Val Glu Glu Gly Arg Asp
    50                  55                  60
Cys Ser Val Trp
65
```

<210> 24477
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24477

```
Met Ser Tyr Phe Leu Asn Arg Arg Val Thr Leu Gln Lys Asn Phe Val
```

```
1               5                   10                  15
Ala Asp Ser Thr Val Phe Asp Val Gly Ser Leu Ile Gly Val Val Arg
            20                  25                  30
Leu Arg Gly Val Phe Thr Trp Thr Met Gln Arg Thr Ser Trp Leu Thr
        35                  40                  45
Ala Thr Val Pro Gln Gln Thr Phe Val Glu Ile Gly Leu Ile Asn Met
    50                  55                  60
Ser Leu Cys Glu Lys Cys Cys Lys Thr Arg Tyr
65                  70                  75
```

<210> 24478
<211> 144
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (142)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24478

```
Lys Gln Leu Leu Thr Ala Thr Val Val His Ser Val His Ala Ile Thr
1               5                   10                  15
Arg Ser Ile Thr Pro Lys Ile Pro Ile Ser Ser Pro Leu Pro Thr Thr
            20                  25                  30
Pro Ala Ser Ser Asn Val Ala Leu Ser Ser Pro Ser Gly Thr Ser Thr
        35                  40                  45
Pro Thr Pro Ala Ala Ser Ala Tyr Ser Leu Pro Asn Pro Gly Ala Pro
    50                  55                  60
Val Thr Gly Leu Glu Ser Leu Glu Thr Asp Lys Phe Arg Leu Thr Cys
65                  70                  75                  80
Phe Gln Thr Leu Thr Gly Thr Lys Phe Leu Leu Phe Thr Asp Pro Leu
                85                  90                  95
Met Ala Asn Ile Asp Ala Val Met Lys Lys Ile Tyr Glu Leu Tyr Ser
            100                 105                 110
Asp Tyr Val Met Lys Asn Pro Phe Tyr Gln Leu Glu Met Pro Val Arg
        115                 120                 125
Cys Glu Ala Phe Asp Arg His Leu Gly Gly Trp Leu Arg Xaa Arg Thr
    130                 135                 140
```

<210> 24479
<211> 212
<212> PRT
<213> A.fumigatus

<400> 24479

```
Ile Asp Leu Phe Gly Ile Gln Gln Pro Gln Ser Tyr Leu Tyr Thr Ser
1               5                   10                  15
Arg Ser Lys Cys Phe Asp Val Pro Gly Val Asp Asp Ser Ala Glu Phe
            20                  25                  30
Arg Asp Thr Leu Asn Ala Met Asn Val Ile Gly Met Thr Glu Gly Glu
        35                  40                  45
Gln Asp Glu Val Phe Arg Met Leu Ala Ala Ile Leu Trp Ile Gly Asn
    50                  55                  60
Val Gln Phe Ala Glu Asp Asp Ser Gly Asn Ala Val Ile Thr Asp Gln
65                  70                  75                  80
```

```
Ser Val Val Asp Tyr Val Ala Tyr Leu Leu Glu Val Asp Ala Ala Gln
                85                  90                  95
Val Asn Lys Ala Phe Thr Ile Arg Val Met Glu Thr Ala Arg Gly Gly
            100                 105                 110
Arg Arg Gly Ser Val Tyr Glu Val Pro Leu Asn Thr Val Gln Ala Leu
        115                 120                 125
Ala Val Arg Asp Ala Leu Ala Lys Ala Ile Tyr Phe Asn Leu Phe Asp
    130                 135                 140
Trp Ile Val Gln Arg Val Asn Ala Ser Leu Thr Ala Arg Gly Glu Val
145                 150                 155                 160
Ala Asn Ser Ile Gly Ile Leu Asp Ile Tyr Gly Phe Glu Ile Phe Glu
                165                 170                 175
Lys Asn Ser Phe Glu Gln Leu Cys Ile Asn Tyr Val Asn Glu Lys Leu
            180                 185                 190
Gln Gln Ile Phe Ile Gln Leu Thr Leu Lys Ala Glu Gln Asp Glu Tyr
        195                 200                 205
Glu Ser Ser Pro
    210
```

<210> 24480
<211> 382
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24480

```
Xaa Thr Val Tyr Ser Arg Ile Trp Ala Cys Phe Phe Leu Leu Ala Leu
1               5                  10                  15
Gln Ser Gly Ile Ser Gly Asn Gly Ile Asn Asn Ala Tyr Ser Gly Phe
            20                  25                  30
Met Ser Ala Pro Gln Ile Ser Thr Ala Asn Ile Leu Ser Ser Ile Ile
        35                  40                  45
Gly Gly Val Leu Lys Leu Pro Ile Ala Lys Ile Leu Asn Leu Trp Gly
    50                  55                  60
Arg Ala Glu Gly Phe Leu Val Phe Val Gly Val Tyr Thr Ile Gly Leu
65                  70                  75                  80
Ile Ile Leu Ala Ala Cys Asn Gly Pro Asp Ser Tyr Ala Ala Gly Tyr
                85                  90                  95
Val Leu Phe Trp Ile Gly Tyr Asp Ala Ile Tyr Leu Ile Leu Asp Val
            100                 105                 110
Phe Val Ala Asp Thr Ser Gly Leu Arg Asn Arg Ala Phe Thr Phe Ala
        115                 120                 125
Phe Ala Ser Thr Pro Phe Ile Cys Thr Ala Phe Thr Ala Pro Leu Ala
    130                 135                 140
Ala Ser Ser Phe Leu Arg Met Thr Thr Trp Arg Trp Ala Tyr Gly Ala
145                 150                 155                 160
Phe Ala Ile Ile Met Pro Val Ala Leu Ala Pro Leu Ala Val Val Phe
                165                 170                 175
Lys Arg Tyr Gln Leu Lys Ala Glu Lys Met Gly Leu Tyr Val Arg Gln
            180                 185                 190
Pro Ser Gly Arg Thr Trp Ala Gln Ser Val Ala His Tyr Ile His Glu
        195                 200                 205
```

```
Phe Asp Ser Met Ser Asn Gln His Pro Val Leu Ser Ile Asn Glu Leu
    210                 215                 220
Gln Leu Thr Ser Leu Pro Val Ile Gly Ala Phe Leu Leu Met Ala Ala
225                 230                 235                 240
Trp Val Leu Leu Leu Leu Pro Phe Ser Leu Ala Ser Asn Gly Arg Ala
                245                 250                 255
Glu Tyr Lys Ser Ala Ala Phe Ile Ala Met Val Ile Ile Gly Phe Cys
            260                 265                 270
Leu Phe Phe Ala Phe Ala Ala Trp Glu Lys Trp Phe Ala Arg Val His
        275                 280                 285
Phe Ile Asn Tyr Glu Leu Leu Lys Gln Arg Thr Val Leu Gly Ala Cys
    290                 295                 300
Val Met Ala Ala Thr Leu Tyr Phe Ser Phe Tyr Cys Trp Asp Leu Tyr
305                 310                 315                 320
Phe Tyr Asn Phe Cys Thr Val Val Tyr Asn Leu Asn Ala Ala Met Thr
                325                 330                 335
Gly Tyr Met Thr Gln Ile Tyr Asn Val Gly Ser Cys Phe Trp Gly Val
            340                 345                 350
Val Phe Gly Leu Trp Val Arg Trp Thr Lys His Phe Lys His Thr Cys
        355                 360                 365
Leu Phe Phe Gly Leu Pro Leu Met Ile Leu Gly Ala Gly Leu
    370                 375                 380
```

<210> 24481
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24481

```
Arg Gln Val Pro Pro Gly Ala Val Ala Asn Ala Pro Glu Gly Thr Pro
1               5                   10                  15
Lys Gly Pro Glu Thr Asn Asp Gln Pro Asp Met Asp Ser Ser Arg Leu
            20                  25                  30
Ser Leu Glu Ala Arg Asn Glu Lys Glu Ile Glu Gln His Pro Asn Gln
        35                  40                  45
Val Thr Ala Asp Ala His Leu Gly Val Gln Lys Val Glu Ala Ala Ala
    50                  55                  60
Leu Val Trp Ser Lys Lys Ala Val Trp Ala Thr Tyr Ala Trp
65                  70                  75
```

<210> 24482
<211> 107
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (107)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24482

```
Asn Ala Pro Ser Gly Pro Glu Thr His His Arg Phe His His Phe Arg
1               5                   10                  15
Gln Arg Lys Lys Val Leu His Arg Leu Cys Pro Gln Trp His Arg Gln
            20                  25                  30
Arg Gly Arg Ala Arg Glu Gln Pro Leu Arg Ser Pro Asn Val Ser Tyr
```

```
        35                  40                  45
Ser Lys Ile Pro Phe Ala Val Arg Glu His Trp Leu Ile Val Ile Asp
    50                  55                  60
Pro Ser Ile Phe Leu Tyr Phe Phe Leu Leu Ala Cys Phe Ala Gly Thr
65                  70                  75                  80
Val Tyr Phe Leu Tyr Thr Ile Trp Ile Ala Pro Tyr Phe Pro Gln Met
                85                  90                  95
Arg Lys Ala Gly Asn Ala Ala Asp Phe Ser Xaa
            100                 105
```

<210> 24483
<211> 144
<212> PRT
<213> A.fumigatus

<400> 24483

```
Asp Thr Thr Glu Asn Thr Gln Asp Ile Pro Glu Val Gln Lys Leu Ala
1               5                   10                  15
Val Ser Ala Glu Ala Ser Phe Pro Ala Ser Glu Ile Phe Gly Val Lys
            20                  25                  30
Leu Val Asn Gly His Pro Thr Gln Ala Leu Ile Thr Phe Thr Asn Glu
        35                  40                  45
Glu Ala Ala Pro Val Thr Val Asn Phe Val Gly Gly Ser Leu Ser Thr
    50                  55                  60
Leu Asp Glu Lys Ser Gln Ile Val Arg Asn Leu Thr Ala Thr Arg Tyr
65                  70                  75                  80
Gly Ile Glu Ile Pro Ala Gly Gln Lys Glu Ser Val Ser Tyr Ser Phe
                85                  90                  95
Ala Thr Glu Met His Pro Gln Asp Leu Arg Leu Thr Ile Ala Ser Ile
            100                 105                 110
Ile Ser Asp Ser Glu Arg Lys Phe Phe Thr Val Tyr Ala His Asn Gly
        115                 120                 125
Thr Val Ser Val Val Glu Pro Glu Asn Ser Leu Phe Asp Pro Gln Met
    130                 135                 140
```

<210> 24484
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24484

```
Asn Ser Trp Met Arg Met Gln Gly His Phe Leu Leu Pro Cys Thr Trp
1               5                   10                  15
Val Leu Thr Asn Ala Thr Ile Leu Gly Phe Leu Cys Ala Ile Ala Thr
            20                  25                  30
Ala Asn Pro Val Leu Ala Arg Ala Gln Gly Thr Ala Ser Gly Lys Val
        35                  40                  45
Ala Leu Asp Arg Leu Tyr Ala Pro Met Ala Pro Ile Gly Trp Arg
    50                  55                  60
```

<210> 24485
<211> 170
<212> PRT
<213> A.fumigatus

<400> 24485

```
Tyr His Asn Phe Pro Ala Arg Leu Thr Glu Arg Gly Tyr Glu Ile Lys
1               5                  10                  15
Tyr Glu Glu Gly Leu Gln Ile Gly Tyr Arg His Pro Gln Ser Gln Arg
            20                  25                  30
Thr Ala Gln Trp Gln Phe Gly His Gly Leu Ser Tyr Thr Thr Phe Glu
        35                  40                  45
Tyr Ser Gly Leu Thr Val Ser Gly Gln Lys Met Thr Glu Glu Ala Gly
    50                  55                  60
Asp Ser Asp Leu Lys Ile Ser Val Arg Val Lys Asn Thr Gly Ile Tyr
65                  70                  75                  80
Pro Gly His Glu Val Val Gln Leu Tyr Ile Ser Pro Pro Asp Ser Thr
                85                  90                  95
Lys Val Trp Arg Pro Ala Arg Glu Leu Lys Gly Tyr Ala Lys Val Trp
            100                 105                 110
Ile Leu Pro Gly Glu Ser Glu Thr Val Thr Ile Ser Leu Asn Lys Lys
        115                 120                 125
His Ala Phe Ser Tyr Trp Asp Glu Asp Ala Lys Gln Trp Arg Leu Glu
    130                 135                 140
Pro Gly Thr Tyr Arg Leu Leu Val Gly Pro Phe Ser Thr Pro Phe Glu
145                 150                 155                 160
Ile Glu His Ser Leu Val Trp Ser Gly Arg
                165                 170
```

<210> 24486
<211> 354
<212> PRT
<213> A.fumigatus

<400> 24486

```
Glu Pro Phe Gly Leu Asn Thr Gly Arg Thr Leu Tyr Ala Pro Phe Lys
1               5                  10                  15
Lys Val Gly Pro Cys Pro Gln Gly Arg Ala Pro Gln Glu Glu Ser Asn
            20                  25                  30
Ile Arg Asp Cys Pro Ala Gly Gly Cys Leu Gly His Asn Gly Asp Val
        35                  40                  45
Gly Ala Asp Phe Leu Pro Tyr Thr Ser Ala Val Gly Tyr Asp Thr Ala
    50                  55                  60
Tyr Thr Leu Arg Glu His Leu Lys Glu Leu Leu Leu Asp Val Ala Asn
65                  70                  75                  80
Tyr Ile Arg Glu Arg Ala Ile Ala Ala Gly Ala Ser Glu Ala Asp Thr
                85                  90                  95
Pro His Met Val Leu Arg Phe Thr Gly Gly Trp Val Arg Asp Lys Leu
            100                 105                 110
Leu Gly Val Asp Ser His Asp Ile Asp Val Gly Ile Ser Ser Met Thr
        115                 120                 125
Gly Tyr Gln Phe Gly Met Ala Leu Lys Asp Tyr Leu Asp Ile Pro Glu
    130                 135                 140
Asn Leu Glu Lys Tyr Lys Arg Asn His Pro Asn Gly His Met Lys Glu
145                 150                 155                 160
Ala Ile Val Ser Leu His Lys Ile Glu Ala Asn Pro Glu Lys Ser Lys
                165                 170                 175
His Leu Glu Thr Val Thr Thr Lys Ile Phe Gly Phe Asp Ile Asp Leu
            180                 185                 190
Val Asn Leu Arg Lys Glu Met Tyr Thr Asp Asp Ser Arg Asn Pro Gln
        195                 200                 205
Met Glu Phe Gly Thr Ala Glu Glu Asp Ala Leu Arg Arg Asp Ala Thr
```

```
    210                 215                 220
Ile Asn Ala Leu Phe Tyr Asn Leu Asn Glu Ser Lys Val Glu Asp Leu
225                 230                 235                 240
Thr Gly Arg Gly Phe Ser Asp Met Arg Asp Lys Ile Ile Arg Thr Pro
                245                 250                 255
Met Glu Pro Tyr Gln Thr Phe Lys Asp Asp Pro Leu Arg Val Leu Arg
            260                 265                 270
Leu Ile Arg Phe Ala Ser Arg Leu Gly Tyr Lys Ile Asp Pro Asn Thr
        275                 280                 285
Glu Arg Ala Met Gln Asn Ser Asp Ile Ser Val Ala Leu Lys Leu Lys
    290                 295                 300
Ile Ser Arg Glu Arg Val Gly Thr Glu Leu Glu Lys Met Leu Lys Gly
305                 310                 315                 320
Leu Gln Asn Pro Val Arg Phe Glu Thr Glu Pro His Val Asn Phe Gly
                325                 330                 335
Ser Gly Pro Asp Pro Arg Gly Ala Leu Gln Leu Ile Val Ser Ile Pro
            340                 345                 350
Arg Gly
```

<210> 24487
<211> 238
<212> PRT
<213> A.fumigatus

<400> 24487

```
Ala Lys Gly Pro Glu Gly Pro Pro Leu Gly Pro Lys Gly Ser Ser Pro
1               5                  10                  15
Leu Gly Arg Gln Val Pro Gly Thr Gln Phe Ile Asp Val Ala Thr Lys
            20                  25                  30
Ala Leu Val Gly Arg Asp Val Leu Lys Pro Val Asp Leu Met Thr Glu
        35                  40                  45
Lys Arg Asp Tyr Leu Ala Thr Lys Val Pro Gln Phe Ser Trp Thr Arg
    50                  55                  60
Leu Ala Gly Ala Asp Pro Phe Leu Gly Val Glu Met Ala Ser Thr Gly
65                  70                  75                  80
Glu Ile Ala Cys Phe Gly Lys Asp Leu Val Glu Ala Tyr Trp Ala Ser
                85                  90                  95
Leu Gln Ser Thr Met Asn Phe Arg Val Pro Glu Pro Gly Glu Gly Ile
            100                 105                 110
Leu Leu Gly Gly Asp Ile Asn Asn Pro Ala Leu Ala Gln Ile Val Asp
        115                 120                 125
Tyr Leu Asn Pro Leu Gly Tyr Lys Phe Phe Ala Ala Ser Pro Glu Val
    130                 135                 140
Gln Ala His Leu Gln Ser Ala Thr Lys Asp Lys Val Ser Val Gln Val
145                 150                 155                 160
Ile Glu Phe Pro Lys Glu Asp Lys Arg Ala Leu Arg Glu Val Phe Gln
                165                 170                 175
Lys Tyr Asp Ile Arg Gly Cys Phe Asn Leu Ala Lys Thr Arg Gly Lys
            180                 185                 190
Thr Leu Leu Asp Glu Asp Tyr Val Met Arg Arg Asn Ala Val Asp Phe
        195                 200                 205
Gly Val Pro Leu Phe Met Glu Thr Lys Val Cys Gly Ser Ser Leu Pro
    210                 215                 220
Ser Thr Thr Cys Thr Cys Ile Met Cys Thr Asn Arg Leu Tyr
225                 230                 235
```

<210> 24488
<211> 197
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (194)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24488
Gly Ser His Ile Leu Thr Ser Leu Leu Glu Asn Pro Ala Ile Ala Arg
1 5 10 15
Val Asp Thr Ile Ser Arg Arg Thr Pro Ser Ala Ala Ala Ala Ala Pro
20 25 30
Gln Thr Lys Leu Thr Thr Phe Val Ser Asp Asp Thr Ser Arg Trp Ala
35 40 45
Ala Gln Leu Ser Ser Leu Thr Pro Thr Pro Ser Ile Phe Ile Ser Ala
50 55 60
Phe Gly Thr Thr Arg Ala Ala Ala Gly Gly Phe Glu Asn Gln Tyr Lys
65 70 75 80
Val Glu His Gly Leu Asn Val Glu Met Ala Arg Ala Ala Arg Asp Ala
85 90 95
Gly Thr Lys Val Tyr Val Leu Ile Ser Ser Gly Gly Ala Asn Lys Ala
100 105 110
Ser Ser Phe Ala Tyr Pro Arg Met Lys Gly Glu Ile Glu Glu Asp Val
115 120 125
Lys Ala Leu Gly Phe Glu Arg Thr Val Ile Leu Arg Pro Gly Leu Ile
130 135 140
Ser Gly Gln Arg Gln Glu Ser Arg Pro Ala Glu Ala Ala Leu Arg Phe
145 150 155 160
Ile Ala Gly Ile Ala Gly Lys Val His Ser Gly Leu Lys Asp Gly Trp
165 170 175
Ala Gln Asp Ala Asp Val Ile Ala Arg Ser Ser Gly Gln Cys Arg Ser
180 185 190
Gln Xaa Ser Gly Thr
195

<210> 24489
<211> 130
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24489
Arg Trp Leu Glu Arg Thr His His Xaa Arg Arg Pro Thr Ser Ser Phe
1 5 10 15
Ser Ser Trp Val Ile Ser Val Val Leu Phe Ser Met Val Cys Tyr Gln
20 25 30
Phe Val Gln Gly Gly Gly Gly Leu Pro Phe Pro Arg Asp Asn Ala Asp
35 40 45

```
Asp Arg His Cys Pro Val Met Glu Leu Ala Val Leu Leu Ala Ala Gly
    50                  55                  60
Leu Arg Asp Trp Ile Asp Leu Gly Val Ile Cys Gly Ile Leu Leu Leu
65                  70                  75                  80
Asn Ala Val Val Gly Trp Tyr Gln Glu Lys Gln Ala Ala Asp Val Val
                85                  90                  95
Ala Ser Leu Lys Gly Asp Ile Ala Met Lys Ala Val Val Ile Arg Asp
            100                 105                 110
Gly Gln Glu Gln Glu Ile Leu Ala Arg Glu Leu Val Thr Gly Asp Ile
        115                 120                 125
Val Ser
    130
```

<210> 24490
<211> 219
<212> PRT
<213> A.fumigatus

<400> 24490

```
Phe Pro Leu Pro Leu Gln Ile Val Val Glu Glu Gly Thr Val Ile Pro
1               5                   10                  15
Ala Asp Ile Arg Leu Ile Cys Asp Tyr Asp Lys Pro Glu Met Phe Glu
            20                  25                  30
Thr Tyr Lys Glu Tyr Leu Ala Thr Ala Asn Asp Asp Thr Leu Lys Glu
        35                  40                  45
Lys Asp Asp Asp Asp Glu Asp Gly Gly Ile Glu Ala Arg Val Gly Val
    50                  55                  60
Ser Leu Ile Ala Val Asp Gln Ser Ala Ile Thr Gly Glu Ser Leu Ala
65                  70                  75                  80
Val Asp Lys Tyr Met Ala Asp Thr Cys Tyr Tyr Thr Thr Gly Cys Lys
                85                  90                  95
Arg Gly Lys Ala Tyr Ala Ile Val Thr Ala Thr Ala Lys Gln Ser Phe
            100                 105                 110
Val Gly Lys Thr Ala Ala Leu Val Gln Gly Ala Lys Asp Gln Gly His
        115                 120                 125
Phe Lys Ala Leu Met Asp Asp Leu Gly Ser Ser Leu Val Val Ile Val
    130                 135                 140
Met Phe Trp Ile Leu Ala Ala Trp Ile Gly Gly Phe Tyr Arg His Leu
145                 150                 155                 160
Lys Ile Asp Thr His Glu His Glu Asp Asn Asn Leu Leu His Tyr Thr
                165                 170                 175
Leu Ile Leu Leu Ile Ile Gly Val Pro Val Gly Leu Pro Val Val Thr
            180                 185                 190
Thr Thr Thr Leu Ala Val Gly Ala Ala Tyr Leu Ala Glu Gln Asn Phe
        195                 200                 205
His His Gly Gly Ala Arg Leu Arg Ala Gln Arg
    210                 215
```

<210> 24491
<211> 222
<212> PRT
<213> A.fumigatus

<400> 24491

```
Gly Ser Arg Ile Leu Gly His Cys Leu Val Arg Ser Ser Ser Ala Met
1               5                   10                  15
```

```
Val Ile Ser Thr Lys Tyr Ile Phe Ala Leu Cys Val Leu Leu Leu Thr
            20                  25                  30
Phe Ser Leu Ser Ser Ala Tyr Glu Asp Pro Leu Val Glu Leu Asp Tyr
        35                  40                  45
Gly Gln Phe Gln Gly Lys Tyr Asp Ser Thr Tyr Asn Leu Ser Tyr Phe
    50                  55                  60
Arg Lys Ile Pro Phe Ala Ala Pro Pro Thr Gly Glu Asn Arg Phe Arg
65                  70                  75                  80
Ala Pro Gln Pro Pro Leu Arg Ile Thr His Gly Val Tyr Asp Thr Asp
                85                  90                  95
Gln Asp Phe Asp Met Cys Pro Gln Arg Thr Val Asn Gly Ser Glu Asp
            100                 105                 110
Cys Leu Tyr Leu Gly Leu Phe Ser Arg Pro Trp Asp Ala Thr Val Ala
        115                 120                 125
Pro Ser Ser Ala Ser Arg Pro Val Leu Val Val Phe Tyr Gly Gly Gly
    130                 135                 140
Phe Ile Gln Gly Ser Ala Ser Phe Thr Leu Pro Pro Ser Ser Tyr Pro
145                 150                 155                 160
Ile Leu Asn Val Thr Glu Leu Asn Asp Tyr Val Val Ile Tyr Pro Asn
                165                 170                 175
Tyr Arg Val Asn Ala Phe Gly Phe Leu Pro Gly Lys Ala Ile Lys Arg
            180                 185                 190
Ser Pro Thr Ser Asp Leu Asn Pro Gly Leu Leu Asp Gln Gln Tyr Val
        195                 200                 205
Ile Gln Val Val Ser Phe Ala Pro Arg Gly Arg Asn Pro Val
    210                 215                 220
```

<210> 24492
<211> 305
<212> PRT
<213> A.fumigatus

<400> 24492

```
Ser Ala Asp Pro Ser Ser Pro Val Val Lys Asn Phe Cys Ser Leu Ser
1               5                   10                  15
Leu Gln Pro Phe Ser His Pro Val Cys Thr Pro Ser Gly Thr Ile Phe
            20                  25                  30
Asp Leu Thr Ser Ile Leu Pro Trp Ile Lys Lys His Gly Thr Asn Pro
        35                  40                  45
Val Asp Gly Ser Pro Leu Lys Ser Ser Asp Leu Ile Lys Leu Asn Ile
    50                  55                  60
Ala Lys Asn Glu Ser Gly Glu Tyr Val Asp Pro Val Thr Tyr Lys Val
65                  70                  75                  80
Leu Thr Asp Asn Thr His Ile Val Ala Leu Arg Asn Thr Gly Asn Val
                85                  90                  95
Phe Ala Trp Asp Thr Val Glu Arg Leu Asn Ile Lys Gly Lys Leu Trp
            100                 105                 110
Arg Asp Leu Val Thr Asp Glu Glu Phe Ser Arg Lys Asp Ile Ile Thr
        115                 120                 125
Leu Gln Asp Pro Gln Asn Ile Glu Ser Arg Asn Leu Ser Thr Phe Asn
    130                 135                 140
Tyr Leu Lys Glu Gly Glu Ser Ala Leu Thr Glu Gln Gln Ile Arg Glu
145                 150                 155                 160
Arg Glu Asp Pro Ser Asn Asn Val Asn Phe Asn Ala Leu Gly Asn Ala
                165                 170                 175
Ala Lys Ile Leu Lys Ala Lys Glu Ala Val Ala Lys Ala Arg Ala Glu
```

```
            180                 185                 190
Arg Ala Gln Arg Ala Glu Ser Gly Ala Ala Ser Lys Gly Leu Thr Lys
        195                 200                 205
Pro Gly Met Ser Ala Thr Ala Ala Ser Gln Lys Thr Val Ser His Gln
    210                 215                 220
Ala Gly Lys Pro Ile Pro Tyr Asn Ala Ala Arg His Thr Thr Gly Leu
225                 230                 235                 240
Ala Ala Ala Ser Phe Thr Ser Thr Gly Met Thr Pro His Thr Ser Ala
                245                 250                 255
Glu Leu Ala Leu Leu Ser Asp Glu Glu Tyr Met Leu Lys Arg Gly Arg
            260                 265                 270
Val Lys Gln Lys Gly Tyr Ala Arg Ile Ser Thr Thr Leu Gly Asp Val
        275                 280                 285
Asn Leu Glu Leu His Thr Glu Tyr Ala Pro Lys Ala Val Gly Ile Ser
    290                 295                 300
Ser
305
```

<210> 24493
<211> 252
<212> PRT
<213> A.fumigatus

<400> 24493

```
Pro Gly Ala Val Val Glu Glu Asp Ile Val Leu Gly Pro Pro Lys Thr
1               5                   10                  15
Ala Phe Ala Ser Ala Ser Arg Thr Pro Gly Ser Lys Ser Ser Val Asp
            20                  25                  30
Phe Thr Asp Arg Ser Ser Arg Gln Val Glu Ser Asp Glu Ala Ser Asn
        35                  40                  45
Glu Arg Phe Asn Leu Arg Asp Lys Phe Phe Lys Asp Arg Glu Thr Gly
    50                  55                  60
Asp Arg Asp Phe Asp Arg Arg Asp Gly Lys Pro Thr Pro Phe Asn Gly
65                  70                  75                  80
Arg Arg Gly Glu Arg Glu Glu Trp Asn Asn Gly Arg Pro Arg Arg Thr
                85                  90                  95
Phe Gly Gln Glu Asp Gln Asp Arg Lys Pro Arg Arg Asn Val Glu Phe
            100                 105                 110
Asp Arg Trp Asn Arg Asp Gln Arg Glu Gln Asn Pro Asp Arg Gly Val
        115                 120                 125
Thr Glu Lys Glu Ala Gln Phe Thr Pro Arg Lys Asp Gly Thr Pro Gly
    130                 135                 140
Arg Ala Arg His Glu Gly Ser Trp Phe Arg Asn Asp Asn Val Gln Asp
145                 150                 155                 160
Gly Pro Glu Thr Glu Asp Glu Lys Leu Ser Val Arg Asn Arg Asp Trp
                165                 170                 175
Arg Arg Asp Arg His Gly Ala Asp Arg Asp Trp Asn Arg Gly Ala Lys
            180                 185                 190
Phe Glu Gln Asp Pro Glu Trp Met Asp Thr Asn Asp Arg Asp Glu Ser
        195                 200                 205
Arg Lys Val His Thr Gln Glu Asp Phe Glu Arg Trp Lys Glu Arg Met
    210                 215                 220
Lys Ala Gly Ser Ser Gln Ala Gln Leu Glu Glu Lys Lys Glu Ala Pro
225                 230                 235                 240
Ser Asp Leu His Arg Arg Ala Arg Arg Thr Ser Ala
                245                 250
```

<210> 24494
<211> 93
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24494
Ala Thr Asn Arg Glu Pro Asp Arg Ser Leu Ala Asn Val Pro Xaa Trp
1 5 10 15
Glu Ala Met Asn His Pro Asp Arg Pro Lys His Pro Leu Ile Val Arg
20 25 30
Asn Gly Lys Leu Glu Pro Ala Ser Trp Asp Glu Ala Met Ser Leu Ile
35 40 45
Val His His Thr Lys Asp Val Gln Xaa Arg Leu Thr Asn His Gly Ile
50 55 60
Gly Phe Tyr Thr Thr Gly Gln Leu Phe Leu Glu Glu Tyr Tyr Val Leu
65 70 75 80
Ala Met Ile Gly Lys Ala Gly Leu Asn Thr Leu His Met
85 90

<210> 24495
<211> 366
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (164),(183),(248)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24495
Arg Asp Gly Asn Thr Arg Leu Cys Thr Ala Met Ala Ala Ala Ser Met
1 5 10 15
Arg Glu Ser Phe Gly Ser Asp Gly Gln Pro Gly Ser Tyr Thr Asp Ile
20 25 30
Asp Phe Thr Asp Cys Ile Phe Met Val Gly His Asn Met Ala Asn Thr
35 40 45
Gln Thr Val Leu Trp Ser Arg Val Leu Asp Arg Leu Ala Gly Pro Asp
50 55 60
Pro Pro Lys Leu Val Val Val Asp Pro Arg Glu Ser Glu Thr Ala Arg
65 70 75 80
His Ala Thr Val His Leu Ala Pro Lys Gly Gly Thr Asn Val Ala Leu
85 90 95
Leu Asn Gly Leu Gln His Leu Leu Phe Glu Asn Gly Trp Leu Asn Glu
100 105 110
Glu Trp Val Glu Gln His Thr Val Gly Arg Gln Glu Leu Glu Lys Thr
115 120 125
Val Ala Lys Tyr Thr Pro Glu Tyr Val Glu Asn Ile Thr Gly Val Pro
130 135 140
Ala Asp Met Leu Lys Asp Ala Ala Glu Ile Ile Gly Thr Ser Gly Ser
145 150 155 160

```
Leu Leu Ser Xaa Ala Leu Gln Gly Val Tyr Gln Ser Asn Gln Ala Thr
                165                 170                 175
Gly Ala Ala Cys Gln Ile Xaa Asn Ile Asn Phe Leu Leu Glu His Ile
            180                 185                 190
Gly Lys Pro Gly Ser Gly Ile Leu Gln Met Asn Gly Gln Pro Thr Ala
        195                 200                 205
Gln Asn Asn Arg Glu Thr Gly Cys Asn Gly Glu Tyr Pro Gly Phe Arg
    210                 215                 220
Asn Phe Gln Asn Glu Lys His Met Lys Glu Ile Ala Asp Val Trp Lys
225                 230                 235                 240
Ile Asp Phe Val Gln Thr Pro Xaa Trp Asn Gln Pro Thr His Ile Gln
                245                 250                 255
Asn Met Leu Asn Tyr Ile Glu Asp Gly Ser Ile Gln Met Phe Trp Val
            260                 265                 270
Ser Gly Thr Asn Pro Phe Val Ser Leu Pro His Leu Tyr Arg Val Arg
        275                 280                 285
Glu Leu Leu Thr Lys Pro Glu Leu Phe Leu Val Val Gln Asp Ile Phe
    290                 295                 300
Val Thr Glu Thr Ala Ala Ile Ala Asp Val Val Leu Pro Ala Ala Gln
305                 310                 315                 320
Trp Gly Glu Lys Thr Gly Cys Phe Thr Asn Val Asp Arg Thr Met His
                325                 330                 335
Leu Ser Leu Lys Ala Val Asp Pro Pro Gly Glu Ala Arg Ala Asp Leu
            340                 345                 350
Asp Ile Cys Leu Gln Pro Arg Gly Leu Glu Gly Thr Ala Leu
        355                 360                 365
```

<210> 24496
<211> 160
<212> PRT
<213> A.fumigatus

```
<400> 24496
Gly Ala Val Gly Gly Arg Ile Thr Arg Ser Pro Tyr Arg Ser Ser Trp
1               5                   10                  15
Ser Pro Arg Gln Arg Leu Thr Pro Arg Ser Ile Ser His Leu Pro Ile
            20                  25                  30
Asp Tyr Gly Asp Arg Lys Gln Lys Asp Ser Val Val Phe Gln Thr Ala
        35                  40                  45
Arg Gln Trp Thr Pro Gly Asn Arg Thr Gly His Arg Pro Gly His His
    50                  55                  60
Gly Pro Ala Gly His Ala His Glu Ala Gln Val Gln His Pro Gln His
65                  70                  75                  80
His Arg Arg Gly Leu Gln His Leu Gln Gln Leu Gly Arg His Arg Arg
                85                  90                  95
Gln Phe Cys Tyr Cys Arg Ala Val Trp Arg Gly Gly Val Val Ala Leu
            100                 105                 110
Arg His Arg Arg Arg His Tyr Cys His Ala Val His Trp Arg His Ala
        115                 120                 125
Gly Gly Ala Gly Gln Arg Leu Ser His Gly Arg Arg Thr Val Pro Phe
    130                 135                 140
His Leu Tyr Ser Gly Ile Arg Ala Met Glu Pro Pro Ser Val Val Leu
145                 150                 155                 160
```

<210> 24497
<211> 202

<212> PRT
<213> A.fumigatus

<400> 24497
Leu Val Val His Ile Glu Val Ala Gly Leu Leu Ala Lys Gly Ser His
1 5 10 15
His Ala Pro Tyr Arg Ile Phe Gln Leu Thr Met Glu Ile Glu Ser Lys
20 25 30
Arg Thr Ala Ser Cys Ser Lys Pro His Asp Asn Gly Pro Leu Glu Ile
35 40 45
Glu Leu Ala Thr Gly Gln Val Ile Met Gly Leu Pro Asp Met Pro Met
50 55 60
Lys Arg Lys Phe Ser Ile Leu Ser Ile Ile Ala Val Gly Tyr Asn Ile
65 70 75 80
Ser Asn Ser Trp Val Ala Ile Ala Ala Ser Phe Ala Ile Ala Val Gln
85 90 95
Ser Gly Gly Ala Val Ser Leu Leu Tyr Gly Ile Val Ala Val Thr Ile
100 105 110
Ala Met Leu Cys Thr Gly Val Thr Leu Ala Glu Leu Ala Ser Val Tyr
115 120 125
Pro Thr Ala Gly Gly Gln Tyr His Phe Thr Ser Ile Leu Ala Ser Glu
130 135 140
Arg Trp Ser Arg His Leu Ser Tyr Phe Ser Gly Leu Ala Ala Val Phe
145 150 155 160
Ser Trp Ile Thr Leu Ala Ala Ser Ile Ala Val Ala Ser Thr Gln Ala
165 170 175
Leu Met Ala Val Val Ile Arg Trp Ala Ala Arg Val Cys Ala Ser Gly
180 185 190
Val Ala Leu Leu Pro Gly Val Ser Ala Leu
195 200

<210> 24498
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24498
Trp Arg Trp Leu Ser Ala Gly Gln Pro Glu Tyr Val Pro Gln Ala Trp
1 5 10 15
His Tyr Phe Leu Val Tyr Gln Leu Phe Asn Ile Ala Met Val Val His
20 25 30
Asn Ile Phe Leu Thr Asn Arg Thr Leu Trp Val Tyr Asn Val Gly Cys
35 40 45
Lys Phe Pro Ser Val Leu Thr Ser Pro Phe Val Asp
50 55 60

<210> 24499
<211> 183
<212> PRT
<213> A.fumigatus

<400> 24499
Thr Phe Ala Ile Leu Thr Leu His Pro Thr Val Leu Leu Ser Leu Gly
1 5 10 15
Thr Phe Leu Thr Ile Thr Val Thr Cys Pro Ala Arg Ser His Thr Thr
20 25 30

```
Val Asp Ser Phe Ala Ile Trp Thr Gln Phe Ile Asn Gly Ser Gly Gly
        35                  40                  45
Trp Pro Asn Gly Ile Ser Phe Leu Thr Gly Leu Ser Thr Pro Gln Phe
    50                  55                  60
Met Leu Ser Gly Leu Asp Ala Thr Leu His Leu Ala Glu Glu Cys Leu
65                  70                  75                  80
Glu Pro Glu Arg Ile Val Pro Lys Ala Val Leu Val Thr Val Val Val
                85                  90                  95
Gly Phe Leu Thr Ala Phe Pro Phe Ser Ile Ala Ile Ile Tyr Ser Tyr
            100                 105                 110
Arg Asp Val Glu Ser Ser Leu Ser Ser Pro Thr Gly Cys Val Ala Ser
        115                 120                 125
Leu Phe Leu His Asn Tyr Asn Tyr Ser His Leu Leu Arg Leu Arg Phe
    130                 135                 140
Pro Ile Tyr Phe Ile Trp Glu Lys Ala Thr Arg Ser Pro Thr Ala Ala
145                 150                 155                 160
Thr Val Phe Met Ala Ala Leu Val Val Ile Phe Cys Phe His His Gly
                165                 170                 175
Pro Glu Gly Pro Arg Met Arg
            180
```

<210> 24500
<211> 82
<212> PRT
<213> A.fumigatus

<400> 24500

```
Leu His Leu Trp His Gly Lys Tyr Ser Val Ala Val Lys Asn Val Gly
1               5                   10                  15
Ile Gln Ala Phe Arg Phe Leu Lys Ala Arg Arg Arg Gln Ser Trp Leu
            20                  25                  30
Ser Asn Pro Glu Pro Glu Val Ser Arg Lys Asp Ala Pro His Pro Ser
        35                  40                  45
Leu Pro Ala Thr Thr Ala Pro Ser Asn Ser Gly Gln Trp Trp Pro Lys
    50                  55                  60
Ser Ile Thr Arg Arg Asp Ser Phe Ala Glu Lys Asp Leu Pro Tyr Pro
65                  70                  75                  80
Ala Asp
```

<210> 24501
<211> 347
<212> PRT
<213> A.fumigatus

<400> 24501

```
Pro Ile Pro Glu Pro Leu Val Glu Leu Asp Thr Glu Tyr Arg Pro Tyr
1               5                   10                  15
Leu Phe Asp Ser Asp Val Met Ala Ile Arg Val Phe Val Arg Glu Leu
            20                  25                  30
Val Asp Gln Ser Ile Val Pro Tyr Met Glu Asn Arg Val Ala Val Trp
        35                  40                  45
Asn Asp Gln Val Ala Ser Arg Arg Arg Gly Ile Ser Gly Arg Phe Met
    50                  55                  60
Ser Met Ser Arg Lys Trp Ala Gly Phe Gly Tyr Ser Ser Arg Ser Gly
65                  70                  75                  80
```

```
Ile Asn Gly Ser Gly Gly Gly Asn Tyr Asp Phe Ala Arg Gly Phe Tyr
                85                  90                  95
Lys Pro Asp Thr Pro Glu Ala Ile Leu Arg Lys Met Ala Asp Phe Ala
            100                 105                 110
Phe Met Leu Arg Asp Trp Lys Leu Ser Ala Ser Thr Tyr Glu Leu Leu
        115                 120                 125
Arg Ser Asp Tyr Thr Asn Asp Lys Ala Trp Arg Tyr His Ala Gly Ala
    130                 135                 140
His Glu Met Cys Ala Val Ser Thr Leu Leu Asn Pro Met Ala Met Pro
145                 150                 155                 160
Ala Lys Pro Arg Leu Glu Ala Ile Asp Gln Met Leu Glu Thr Ala Cys
                165                 170                 175
Tyr Ser Tyr Leu Thr Arg Cys Ser Asp Ala Pro Asn Ala Leu Arg Cys
            180                 185                 190
Leu Cys Leu Ala Met Glu Leu Leu Lys Ser Arg Gly Gly Phe Ala Thr
        195                 200                 205
Glu Ser Ala Ala Lys Trp Ala Met Arg Ala Met Asp Leu Gly Leu Val
    210                 215                 220
Gly Gly Ile Gly Gln Ile Leu Phe Ser Glu Arg Ile Ser Ala Cys Tyr
225                 230                 235                 240
Ala Phe Arg Pro Pro Leu Thr Gly Val Arg Trp Gly Gly Arg Arg Arg
                245                 250                 255
Lys Ala Gly Met Trp Ser Ile Leu Ala Ala Asp Leu Trp Leu Arg Val
            260                 265                 270
Gly Lys Pro Thr Leu Ala Ser Ser Cys Leu Glu Glu Ala Glu Arg Leu
        275                 280                 285
Tyr Ala Asp Val Leu Asp Ser Asp Gly Val Phe Pro Met Pro Glu Met
    290                 295                 300
Gln Ser Phe Val Asp Asn Leu Arg His Thr Val Lys Val Glu Tyr Leu
305                 310                 315                 320
Gly Ala Arg Gly Leu Gly Pro Gln Glu Glu Val Ser Thr Thr Glu Gln
                325                 330                 335
Leu Glu Gln Leu Glu Pro Glu Asp Thr Ser Glu
            340                 345
```

<210> 24502
<211> 239
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (60),(74)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24502

```
Ala His Ser Leu Arg Trp Pro Lys Gly Ser Asn Asn Gln Ser His Leu
1               5                   10                  15
Ala Ser Gly Ile Thr Asn Ser Leu Gln Asn Thr Ala Arg Phe Leu Asn
            20                  25                  30
Ser Ala Phe Phe Gly Thr Gln Gln Asp Lys Ala Ala Ile Phe Ser Ile
        35                  40                  45
Ile His Arg Tyr His Ala Arg Val Arg Ala Glu Xaa Tyr Asp Ala Asn
    50                  55                  60
Asp Pro Glu Leu His Lys Trp Thr Ala Xaa Thr Leu Phe Val Ala Val
65                  70                  75                  80
```

```
Val Ile Val His Glu Thr Phe Phe Gly Glu Leu Pro Arg Asp Lys Met
                85                  90                  95
Glu Ala Leu Tyr Arg Glu Ser Ala Val Phe Gly Thr Ser Leu Arg Met
            100                 105                 110
Pro Pro Glu Met Trp Pro Thr Thr Leu Ala Glu Phe Trp Glu Tyr Trp
        115                 120                 125
Asn His Asn Ile Glu Thr Leu Glu Val Thr Asp Met Ala Arg Lys Leu
    130                 135                 140
Ser Arg Asp Leu Leu Tyr Pro Val His Leu Pro Met Trp Met Arg Val
145                 150                 155                 160
Leu Ala Pro Leu Ser Arg Leu Leu Thr Ile Tyr Phe Leu Pro Glu Arg
                165                 170                 175
Leu Ala Lys Glu Tyr Asp Leu Gln Pro Thr Met Leu Ser Arg Ile Gln
            180                 185                 190
Phe Gln Ala Thr Val Arg Val Met Arg Ile Ala Tyr Pro Ser Met Pro
        195                 200                 205
Gln His Leu Arg Gln Thr Leu His Arg Gln Tyr Met Glu Asp Leu Gly
    210                 215                 220
Lys Ala Val Asp Arg Ile Arg Lys Thr Gly His Trp Ala Gly Val
225                 230                 235
```

<210> 24503
<211> 96
<212> PRT
<213> A.fumigatus

<400> 24503

```
Gln Gln Pro Glu Leu Ala Val Asn Met Glu Gln His Leu Asp Trp Lys
1               5                   10                  15
Pro Asp Leu Pro Leu Pro Ser Ile Glu Asp Phe Ile Asp Pro Arg Ile
            20                  25                  30
Leu Glu Asp Arg Thr Trp Glu Pro Asn Phe Glu Leu Ala Glu Thr Lys
        35                  40                  45
Ser Thr Ser Ser Ala Gly Ser Gln Asp Val Leu Ser Leu Ser Ser Asp
    50                  55                  60
Phe Glu Thr Asp Pro Lys Tyr Glu Met Leu Arg Ser Glu Asp Ser Glu
65                  70                  75                  80
Ile Asp Asp Tyr Ser Leu Ser Asp Tyr Val Ser Ala Asp Ala Ser Arg
                85                  90                  95
```

<210> 24504
<211> 103
<212> PRT
<213> A.fumigatus

<400> 24504

```
Lys Pro Gly Asp Leu Pro Asp Lys Pro His Asp Ile Pro Pro Pro Lys
1               5                   10                  15
Ser Pro Ala Thr Val Asn Asp His Pro Leu Gly Leu Asn Ala Asp Gly
            20                  25                  30
Thr Phe Ser Lys Thr Gly Thr Lys Ser Gly Gln Gln Val Glu Gly Ser
        35                  40                  45
Ala Phe His Ser Leu Ile Phe Ser Phe Thr Met Ile Val Val Ser Glu
    50                  55                  60
Ile Gly Asp Lys Thr Phe Leu Val Ala Ala Leu Met Ala Met Arg His
65                  70                  75                  80
```

```
Pro Arg Leu Leu Val Phe Ser Ala Ala Phe Ser Ala Val Phe Thr Thr
                85                  90                  95
Gly Met Glu Arg Ala Ala Pro
            100
```

<210> 24505
<211> 216
<212> PRT
<213> A.fumigatus

<400> 24505

```
Arg Arg Gln Glu Phe Leu Ile Ile Thr Ile Ala His Thr Ala Pro Arg
1               5                  10                  15
Asp Thr His Ser Lys Leu Val Gln Ala Ala Ala Lys Ala Gly Val Pro
            20                  25                  30
Tyr Ile Met Pro Asn Gly Tyr Ala Gly Asp Ile Asp His Ile Lys Leu
        35                  40                  45
Gly Glu Asp Thr Leu Leu Gly Pro Val Ala Lys Ala Asn Arg Asp Glu
    50                  55                  60
Ile Glu Gly Leu Gly Met Gln Trp Ile Thr Val Cys Cys Gly Phe Trp
65                  70                  75                  80
Tyr Asp Tyr Ser Leu Ala Gly Gly Glu Ser Arg Phe Gly Phe Asn Phe
                85                  90                  95
Gly Lys Arg Ser Leu Thr Ile Tyr Asp Asp Gly Asn Thr Lys Ile Ser
            100                 105                 110
Thr Ser Thr Leu Ser Gln Val Gly Arg Ala Leu Ala Lys Val Leu Ser
        115                 120                 125
Leu Asn Glu Leu Pro Glu Asp Glu Asn Asp Lys Ser Leu Thr Leu Ser
    130                 135                 140
Thr Phe Leu Asn Lys Gly Leu Tyr Leu Glu Ser Phe Val Val Ser Gln
145                 150                 155                 160
Asn Asp Met Phe Glu Ser Val Lys Arg Val Thr Gly Thr Ser Asp Ala
                165                 170                 175
Asp Trp Thr Ile Thr His Glu Glu Pro Lys Lys Pro Tyr Glu Asp Gly
            180                 185                 190
Leu Ala Leu Val Lys Arg Gly Asn Met Ala Gly Phe Ser Lys Leu Leu
        195                 200                 205
Tyr Pro Arg Ala Phe Tyr Pro Gly
    210                 215
```

<210> 24506
<211> 150
<212> PRT
<213> A.fumigatus

<400> 24506

```
Leu Phe Met Gln Gln Pro Ile Ile Ser Asn Ser Lys Thr Gly Asp Leu
1               5                  10                  15
Leu Arg Leu His Pro Val Glu Pro Asp Leu Leu Asp Leu Leu Gly Gly
            20                  25                  30
Ile Ser Thr Tyr Lys Ile Glu Tyr Thr Ser Val Asp Pro Asp Asp Ser
        35                  40                  45
Thr Val Ser Ala Thr Ala Phe Val Ala Phe Pro Phe Val Gln Arg Gly
    50                  55                  60
Ser Pro Phe Asn Ile Val Ala Phe Ala His Gly Thr Ser Ser Ile Phe
65                  70                  75                  80
```

```
Arg Ser Cys Ala Pro Ser Thr Ser Ser Ser Leu His Asp Tyr Asp Thr
                85                  90                  95
Val Ile Pro Leu Leu Ser Ser Gly Tyr Val Val Val Gly Thr Asp Tyr
            100                 105                 110
Ala Cys Leu Gly Asn Asn Tyr Thr Ser Leu Glu Tyr Thr Ser Ala Arg
        115                 120                 125
Ala Asn Gly Ile Lys Cys Lys Ile Cys Arg Cys Cys Phe Tyr Asp Ala
    130                 135                 140
Ile Arg Ser Gly Arg Arg
145                 150
```

<210> 24507
<211> 95
<212> PRT
<213> A.fumigatus

<400> 24507

```
His Pro Asp Leu Ala Arg Ser Thr Arg Glu Glu Pro Pro Lys Leu Gly
1               5                   10                  15
Phe Leu Leu Ile Thr Ile Arg Tyr Leu Ser Ala Leu Ser Gly Asn Ile
            20                  25                  30
Ile Leu Asn Ala Ser Val Thr Ser Ile Leu His Pro Phe Asn Met Tyr
        35                  40                  45
Ser Thr Ser Ser Phe Val Arg Thr Asp Asn His Ala Leu His Lys Phe
    50                  55                  60
Lys Val Ala Ala Glu Ser Leu Asp Arg Phe Phe Arg Asp Thr Leu Asn
65                  70                  75                  80
Glu Thr Gly Ala Leu Gln Val Leu Gln Val Ile Arg Ser Ile His
                85                  90                  95
```

<210> 24508
<211> 104
<212> PRT
<213> A.fumigatus

<400> 24508

```
Ser Ser Ala Gly Met Cys Ala Leu Leu His Leu Val Gln Leu Asp Ile
1               5                   10                  15
Ile His Glu Ile Leu His Ile Met Asp Glu Tyr Thr Val Val Leu Gln
            20                  25                  30
Ile Pro Gly Ile Asp Cys Thr Phe Gln Ala Leu Leu Gln Ile Met Ile
        35                  40                  45
Glu Leu Leu Asn Cys Trp Val Asn Ala Pro Val Phe Val Cys Trp Ser
    50                  55                  60
Ile Leu His Asn Phe Thr Gly Asn Val Phe Gly Lys His Gly Pro Lys
65                  70                  75                  80
Ile Cys Tyr Asn Ile Phe Lys Ser Ser Gly His Trp Ile Cys Glu Tyr
                85                  90                  95
Ser Arg Ile Lys Thr Arg Arg Trp
            100
```

<210> 24509
<211> 257
<212> PRT
<213> A.fumigatus

<400> 24509
Ser Thr Leu Leu Met Val Thr Ser Met Tyr Val Ala Met Ala Asn Ser
1 5 10 15
Leu Lys Gln Asn Asp Gln Ala Glu Asn Gly Pro Ala Glu Ala Gly His
20 25 30
Ala Asp Glu Ala Thr Glu Glu Asn Lys Pro Ala Glu Gly His Ala Thr
35 40 45
Glu Glu Pro Gln Ile Pro Gln Pro Ala Asp Glu Gly Met Pro Gln Ala
50 55 60
Gln Gly Pro Thr Pro Met Phe Pro Asn Ala Met Gly Phe Asn Met Gly
65 70 75 80
Pro Ser Ala Phe Pro Asn Met Ala Trp Asn Asn Ala Ser Gly Asp Phe
85 90 95
Asn Pro Met Ala Gln Phe Met Ala Asn Gly Met Phe Asn Phe Pro Asn
100 105 110
Pro Met Gly Arg Ser Leu Leu Ile Cys Leu Ser Lys His Pro Asn Thr
115 120 125
Asp Met Met Thr Ser Ala Met Ser Gly Met Gly Met Asp Pro Met Ala
130 135 140
Ala Asn Gln Gly Met Leu Gly Gly Tyr Gly Met Asn Met Asn Gly Met
145 150 155 160
Asn Ser Gly Met Asn Met Gly Met Asn Phe Asp Ala Ser Gln Gly Met
165 170 175
Tyr Gly Gly Trp Asp Gly Ser Gln Asn Asn Met Trp Asn Gly Gly Gln
180 185 190
Asp Lys Phe Asn Pro Asn Ala Phe Ala Asn Gly Met Gly Pro Gln Tyr
195 200 205
Glu Gly Pro Ser Gly Phe Gly Gly Tyr Asn Met Ser Gln Pro Asn Gly
210 215 220
Val His Ala Gln Met Gln Gln Gln Gln Phe Pro Ser Gln Asp Phe Gln
225 230 235 240
Asn Gly Tyr Tyr Gly Pro Gly Tyr Gly Arg Ser Asn Phe Arg Gly Arg
245 250 255
Gly

<210> 24510
<211> 294
<212> PRT
<213> A.fumigatus

<400> 24510
Lys Gly Leu Val Pro Arg Pro Leu Ser Glu Lys Gln Pro Pro Ile Arg
1 5 10 15
Val Glu Thr Gly Arg His Thr Leu Gln Thr Ile Leu Arg Gln Lys Lys
20 25 30
Gln Ser Arg Lys Ser Leu Tyr Leu Ile Lys Pro Gly Gly Ile Gln Gly
35 40 45
Tyr Val Gly Ala Val Ala Ser Tyr Arg Ser Tyr Thr Asp Val Val Ala
50 55 60
Lys Thr Asp Val Tyr Val Gly Phe Leu Pro Arg Ala Ser Leu Glu Arg
65 70 75 80
Ile Ala Glu Arg Tyr Pro Ile Ala Leu Leu Thr Leu Ala Lys Arg Leu
85 90 95
Thr Ser Ile Leu Pro Arg Leu Leu Leu His Ile Asp Phe Ala Leu Glu
100 105 110

```
Trp Val Gln Val Asn Ala Gly Gln Val Ile Tyr Arg Gln Gly Asp Glu
        115                 120                 125
Ser Asp Ala Ile Tyr Leu Val Leu Asn Gly Arg Leu Arg Ser Val Leu
    130                 135                 140
Glu Ser Pro Gly Asn Lys Leu Ala Val Val Gly Glu Tyr Gly Gln Gly
145                 150                 155                 160
Glu Ser Val Gly Glu Leu Glu Val Met Thr Glu Ser Thr Arg Pro Ala
                165                 170                 175
Thr Leu His Ala Ile Arg Asp Thr Glu Leu Ala Lys Phe Pro Arg Ser
            180                 185                 190
Leu Phe Asn Ser Leu Ala Gln Glu His Pro Gly Ile Thr Ile Gln Val
        195                 200                 205
Ser Lys Leu Ile Ala Gln Arg Met Arg Asp Leu Val Glu Arg Pro Val
    210                 215                 220
Thr Glu Lys Gly Val Glu Arg Ser Asn Ala Gly Ser Val Gln Thr Ala
225                 230                 235                 240
Thr Ser Thr Val Asn Leu Arg Thr Val Gly Ile Leu Pro Val Thr Ala
                245                 250                 255
Gly Val Pro Val Val Glu Phe Gly Asn Arg Leu Leu His Ala Leu His
            260                 265                 270
Gln Val Gly Val Thr Asp Gly Val Thr Val Phe Thr Thr Gly Val Glu
        275                 280                 285
Val Ser Ala Val Ile Ser
    290

<210> 24511
<211> 71
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13),(38),(39),(48),(49),(53),(70)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24511
Gly Phe Leu Asn Cys Asn Glu Leu Leu Ala Phe Gln Xaa Lys Asn Thr
1               5                   10                  15
Gly Leu Pro Ile Gly Asn Leu Val Val Gln Ala Gly Ile Phe Leu Val
            20                  25                  30
Tyr Pro Glu Leu Pro Xaa Xaa Ile Asn Ala Val Ala Lys Phe Leu Xaa
        35                  40                  45
Xaa Tyr Val Ile Xaa Asn Gln Pro Ile Ala Asn Met Thr Phe Lys Thr
    50                  55                  60
Cys Ser Ser Val Thr Xaa Gln
65                  70

<210> 24512
<211> 85
<212> PRT
<213> A.fumigatus

<400> 24512
Tyr Trp Arg Leu His Pro Ala Asn Trp Arg Ser Ser Ser Thr Asn Leu
1               5                   10                  15
Cys Leu His Asn Trp Val Ser Val Val Asp Val Ile Ala Ala Pro Ala
```

```
            20                  25                  30
His Thr Ala Ala Ser Asp Glu Ser Ile Ser Asp Lys Phe His Gly Arg
        35                  40                  45
Gln Ile Asn Ser Asn Asn Glu Ile Phe Gly Glu Lys Tyr Met Leu Leu
    50                  55                  60
Leu Glu Pro Ser Tyr Asn Lys Ile Asn His Ala Lys Tyr Pro Leu Pro
65                  70                  75                  80
Gln Ile Cys Thr Pro
                85
```

<210> 24513
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24513

```
Leu Thr Leu Gly Ala Leu Ala Lys Pro Arg Asp Gly Ser Trp Pro Leu
1               5                   10                  15
Leu Tyr Asn Thr Val Ala Ala Ile Gly Ala Phe Val Gly Gly Thr Lys
            20                  25                  30
Ala Thr Asn Cys Asp Ile Pro Leu Tyr Lys Glu Ala Cys Lys His Leu
        35                  40                  45
Thr Met Asp Val Leu Glu Lys Gly Ser Leu Ser Tyr Val Gln Ala Ile
    50                  55                  60
Val Leu Met Ala Asn Tyr Leu Gln Lys Arg Asn
65                  70                  75
```

<210> 24514
<211> 101
<212> PRT
<213> A.fumigatus

<400> 24514

```
Arg Asn His Arg Pro Asn Gln Ser Ile Lys Glu Thr Gln Gly Thr Ser
1               5                   10                  15
Val Leu Asn Leu Arg Ser Arg Met Ala Pro Arg Lys Arg Lys Thr Ala
            20                  25                  30
Ala Ile Pro Ser Ser Asp Asp Gly Thr Thr Gln Gln Pro Ser Lys Arg
        35                  40                  45
Glu Lys Leu Asp Leu Ser Arg Pro His Pro Asn Ala Gln Gln Ala Glu
    50                  55                  60
Asn Phe Gly Ile Val Leu Arg Glu Phe Tyr Pro Pro Glu Met Ser Asn
65                  70                  75                  80
Glu Arg Cys Gln Ala Tyr Asn Asp Gly Arg Leu Glu Arg Pro Ile Glu
                85                  90                  95
Thr Leu Gln Arg Ala
            100
```

<210> 24515
<211> 223
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5),(46),(89),(113),(116),(141)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24515

```
Ser Thr Cys Pro Xaa Arg Pro Gln Ser Ser Ser Thr Lys Asn Ser Ser
1               5                  10                  15
Glu Ile Pro Asn Ser His Ala Glu Met Val Ala Phe Leu Asn Leu Cys
            20                  25                  30
Phe Arg Ala Leu Ala Glu Leu Gly Gln Ser Phe Glu Asn Xaa Lys Arg
        35                  40                  45
Thr Arg Asp Phe Phe Val Ser Leu Gln Arg Arg Trp Gln Ala His Leu
    50                  55                  60
Arg Arg Ser Gly Ser Gly Lys Lys Arg Gln Val Ser Lys Leu Leu Pro
65                  70                  75                  80
Gln Gln Ser Ala Gly Ser Gly Pro Xaa Pro Ser Thr Glu Ser Asp Pro
                85                  90                  95
Ser Arg Lys Lys Ser Arg Ile Ser Ala Pro Arg Asn His Lys Gln Ser
            100                 105                 110
Xaa Tyr Pro Xaa Pro Pro Ala Pro Ser Ser Ser Met Pro Ser Thr His
        115                 120                 125
Asn Leu Phe Gln Leu Arg Pro His Ser Asn Ser Gln Xaa Gln His Pro
    130                 135                 140
Pro His Gln Ser Leu Ser Gln Ser Gln Ser Gln Arg Phe Gly Ala Cys
145                 150                 155                 160
Gln Pro Gly Asp Leu Asp Trp Ile Arg Asp Ser Asp Phe Gln Leu Leu
                165                 170                 175
Ala Glu Asn Leu Gly Asp Gly Arg Leu Ala Gln Met Gly Thr Gly Asn
            180                 185                 190
Gln Phe Glu Gly Glu Asn Val Leu Pro Ser Leu Ser Asp Ile Glu Pro
        195                 200                 205
Trp Trp Asp Ser Pro Asn Gly His Thr Phe Gly Gly Ser Ser Leu
    210                 215                 220
```

<210> 24516
<211> 118
<212> PRT
<213> A.fumigatus

<400> 24516

```
Trp Gly Gly Asp Thr Leu Ser Ala Ala Pro Ser Thr Pro Val Val Ser
1               5                  10                  15
Met Ala Ser Met Gln Met Ala Ile Ser Ala Tyr Lys Asn Gln Lys Ile
            20                  25                  30
Lys Ser Lys Ser Lys Ala Ala Glu Ile Phe Gly Val Pro Glu Ser Thr
        35                  40                  45
Leu His Lys Trp Leu Ser Gly Val Lys Pro Tyr Ile Glu Thr Cys Val
    50                  55                  60
Asn Ser His Arg Met Thr Val Ile Glu Glu Lys Ser Leu Ile Lys His
65                  70                  75                  80
Leu Leu Asp Thr Asp Lys Gln Gly Phe Leu Ile Gln Pro Lys Phe Leu
                85                  90                  95
His Arg Ile Ala Gln Ile Leu Leu Gln Ala His Thr Tyr Asn Pro Thr
            100                 105                 110
Thr Thr Leu Asp Val Asn
        115
```

<210> 24517

<211> 73
<212> PRT
<213> A.fumigatus

<400> 24517
Lys Leu Thr Asn Ser Ala Asn Ser Trp Thr Thr Asp Lys Ile Gly Leu
1 5 10 15
Lys Trp Leu Lys Glu Val Phe Asn Pro Phe Ser His Leu His Leu Thr
20 25 30
Gly Ala Lys Gln Leu Leu Ile Leu Asn Ser His Ser Ser Tyr Gln Thr
35 40 45
Ala Glu Phe Asp Asp Phe Tyr Lys Glu Asn Ile Ile Ile Cys Leu Tyr
50 55 60
Met Pro Pro His Thr Ser Tyr Leu Leu
65 70

<210> 24518
<211> 128
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (121)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24518
Gln Leu Leu Leu Ala Ile Pro His Gly Thr Phe Ile Phe Gln Lys Pro
1 5 10 15
Pro Val Tyr Gly Trp Tyr Leu Ser Val Ser Ala Val Gly Leu Asn Val
20 25 30
Ser Trp Ser Leu His Asn Val Ile Ala Trp Met Lys Ser Lys Pro Phe
35 40 45
Tyr Ser Arg Asn Val Ser Met Ala Tyr Ile Ala Ser Val Val Ala Val
50 55 60
Gln Pro Tyr Trp Leu Leu Glu Ile Tyr Ala Asn Phe Ala Tyr Phe Asn
65 70 75 80
Asn Ile Asn Arg Val Phe Glu Val Thr Arg Ala Met Glu Pro Val Leu
85 90 95
Pro Ser Val Met Asn Pro Asn Ser Ala Ile Pro Gly Pro Asn Ser Cys
100 105 110
Tyr Phe Glu Glu Ser Thr Asn Ala Xaa Gly Arg Ser Pro Val Pro Asn
115 120 125

<210> 24519
<211> 148
<212> PRT
<213> A.fumigatus

<400> 24519
Gly Ile Ser Ser His Arg Cys Arg Pro Pro Asp Ala Ala Pro Val Ser
1 5 10 15
Val Pro Arg Pro Leu Leu Pro Ser Pro Ser Leu Leu Lys Pro Pro Phe
20 25 30
Pro Gly Pro Pro Arg Ser Pro Trp Ser Pro Ser Leu Ser Ser Ser Leu
35 40 45

```
Asp Pro Ser Ser Pro Asp Met Glu Pro Leu Glu Ala Leu Leu Ser Gly
    50                  55                  60
Ser Ser Ser Pro Ser Pro Ser Ser Ile Ala Ser Val Ser Ser Cys Pro
65                  70                  75                  80
Val Asn Arg His Ser Ser Ala Ser Pro Val Ser Leu Leu Ser Tyr Ser
                85                  90                  95
Pro Ala Arg His His Tyr Pro Leu Leu Arg Leu Ile Ile His Gln Arg
            100                 105                 110
Thr Arg Pro His Ser Gly Val Arg Cys Ala His Gly Ser Arg Ser Gly
        115                 120                 125
Thr Ser Phe Asp Gln Arg Gly Gly Gly Gly Gly Gly Gly Gly Leu Ala
    130                 135                 140
Ala Thr Ile Val
145
```

<210> 24520
<211> 159
<212> PRT
<213> A.fumigatus

```
<400> 24520
Glu Gly Ile Lys Glu Ile Lys Gln Arg Ile Thr His Ser Ser Ala Ile
1               5                   10                  15
Gln Lys Met Asp Gly Gln Lys Thr Met Asn Gly Leu Arg Asn Leu Gln
            20                  25                  30
Ser Ser Met Ser Pro Ala Arg Arg Ser Ala Ser Ile Ser Thr Thr Ala
        35                  40                  45
Thr Ala Thr Ile Ala Ile Val Thr Gln Ala Ala Ile Ser Gly Ser Thr
    50                  55                  60
Thr Val Thr Val Val Ala Val Ala Ile Val Ile Thr Arg Pro Ile Val
65                  70                  75                  80
Ala Gly Tyr Gly Ala Ile Gly Gly Thr Ala Val Gly Ile Ile Ile Thr
                85                  90                  95
Ile Thr Ile Ile His Arg Val Arg Leu Val Met Ser Gly Gln Gln Thr
            100                 105                 110
Gln Gln Arg Lys Pro Gly Lys Ser Ser Leu Leu Leu Pro Arg Pro Ala
        115                 120                 125
Pro Leu Ser Phe Val Ala Ala Asn Asn Thr Ser Glu Asn Thr Ala Thr
    130                 135                 140
Leu Arg Arg Ser Met Arg Pro Arg Lys Gln Val Arg Tyr Lys Phe
145                 150                 155
```

<210> 24521
<211> 399
<212> PRT
<213> A.fumigatus

```
<400> 24521
Cys His Tyr Ser Ser Leu Ser Val Pro Ala Asp Thr Leu Ser Thr Ala
1               5                   10                  15
Asn Met Ser Phe Gln Val Pro Tyr Gly Ser Ser Pro Ser Thr Pro Asp
            20                  25                  30
Lys Ser Arg Ser Phe Leu Ser Asp Ile Ser Ala Thr Pro Gly Gly Ala
        35                  40                  45
Pro Pro Ser Ala Thr Lys Ser Phe Thr Pro Arg Gly Pro Pro Pro Ser
    50                  55                  60
```

```
Thr Ile Phe Gly Ser Ser Gln Met Ser Ser Arg Ser Gln Leu Asp Ser
65                  70                  75                  80
Pro Gln Ser Leu Phe Thr Lys Ser Gly Gly Ile Asp Phe Asn Asp Ser
                85                  90                  95
Ile Phe Asn Ser Ser Val Gly Ser Phe His Gln Pro Ala Pro Arg Ala
            100                 105                 110
Lys Asn Ala Ala Ser Gly Lys Pro Ser Ala Gln Ser Gln Ser Leu Phe
        115                 120                 125
Ser Met Thr Asn Asn Thr Arg Phe Gly Glu Ser Thr Arg Phe Gly Met
    130                 135                 140
Ser Asn Gly Phe Asn Ser Gln Met Asn Ala Glu Thr Lys Ala Asp Asp
145                 150                 155                 160
Glu Gln Met Ile Pro Glu Glu Glu Asp Asp Val Gln Glu Glu Asp Glu
                165                 170                 175
Met Asp Met Gly Asn Ala Ala His Arg Leu Ser Phe Leu Asp Ser Gln
            180                 185                 190
Phe Gly Asn Ser Thr Gln Ala Gln Leu Thr Ser His Val Gln Arg Lys
        195                 200                 205
Ser Ile Tyr Ser Asn Pro Gly Asn Ala Lys Arg Pro Lys Leu Asp Glu
    210                 215                 220
Lys Trp Ala Gln Gln Ser Pro Leu Arg Lys Gly Lys Leu Ser Pro Lys
225                 230                 235                 240
Lys Asp Ser Pro Ile Pro Ser Ile Val Gly Asn Phe Ala Ser Arg Ala
                245                 250                 255
Gly Pro Ala Ser Val Asn Glu Pro Ser Asp Val Ile Ile Ser Thr Glu
            260                 265                 270
Asp Glu Met Cys Arg Met Tyr Asp Glu Val Arg Gln Ser Glu Phe Thr
        275                 280                 285
Asn Arg Asp Ile Gln Ile Ile Leu Ser Glu Val Cys Ser Arg Leu Thr
    290                 295                 300
Asn Ser Trp Lys Pro Ser Met Glu Gly Ser Leu Val Pro Lys Ala Pro
305                 310                 315                 320
Gly Ala Gly Thr Asp Ile Gly Pro Gly Asp Arg Ala Pro Asp Val Ala
                325                 330                 335
Lys Ala Ser Phe Leu Gly Ser Leu Leu Leu Gln Leu His His Pro Pro
            340                 345                 350
Leu Ser Thr Pro Lys Gln Gly Ser Leu Ser Asn Asn Leu Gly Phe Ala
        355                 360                 365
Ala Pro Arg Ser Leu Val Val Thr Ala Ser Lys Ser Asp Thr Pro Thr
    370                 375                 380
Pro Arg Pro Lys Val Val Phe Thr Gln Gly Ser Lys Glu Pro Arg
385                 390                 395
```

<210> 24522
<211> 87
<212> PRT
<213> A.fumigatus

<400> 24522

```
Met Cys Val Ser Pro Arg Val Ile Ser Leu Asp Ser Cys Ile Cys Arg
1               5                   10                  15
Cys Lys Cys Arg Ser Tyr Ala Pro Asn Leu Lys His Ser Arg Ser Ala
            20                  25                  30
Thr Glu Pro Ala Thr Tyr Tyr Val Phe Cys Thr Glu Tyr Ser Glu Gly
        35                  40                  45
Asp Ser Thr Ile Ser Asn Gln Glu Arg Arg Ser Thr Cys Pro Val Glu
```

```
    50                  55                  60
Gln Cys Pro Asn Ser Ile Ser Gly Leu Glu Phe Gly Pro Ala Ala Leu
65                  70                  75                  80
Asn Pro Leu Thr Tyr Cys Ser
                85
```

<210> 24523
<211> 104
<212> PRT
<213> A.fumigatus

<400> 24523

```
Val Ser Ile Ile Ala Leu Lys Asp Asn Gln Ile Arg Val Val Gln Ala
1               5                   10                  15
Ser Met Leu Gly Ser Ile Leu Ser Asn Ile Leu Leu Val Leu Gly Cys
            20                  25                  30
Cys Phe Phe Ile Gly Gly Leu Arg Phe Ser Glu Gln Thr Phe Asn Ser
        35                  40                  45
Thr Val Ala Ser Thr Met Ser Ser Met Met Thr Val Ala Ser Ala Ser
    50                  55                  60
Leu Ile Ile Pro Ala Thr Leu Tyr Ala Ser Leu Ser Pro Ser His Ser
65                  70                  75                  80
Lys Thr Thr Thr Asp Asn Asn Ile Leu Ile Leu Ser His Gly Ile His
                85                  90                  95
His Gly Val Pro Gly Pro Cys Ile
            100
```

<210> 24524
<211> 238
<212> PRT
<213> A.fumigatus

<400> 24524

```
Phe Arg Leu Asn Pro Glu His Phe Phe Phe Pro Ile Phe Gln Ser Leu
1               5                   10                  15
Phe Leu Gly Leu Phe Pro His Thr Lys Ala Ala Leu Leu Phe His Phe
            20                  25                  30
Leu Pro Ile Asn Ser Ala Gly Lys Ile Leu Arg Arg Ile Leu Leu Arg
        35                  40                  45
Thr Trp Leu Ile Gly Phe Gly Arg Phe Leu Ile Gln Gln Arg Gln Gly
    50                  55                  60
Ile Phe Arg Ser Ala Phe Arg Arg His Ser Trp Gly Pro Lys Lys Ser
65                  70                  75                  80
Ser Met Thr Gly Phe Ser Ser Ser Pro Asn Gly Ala Gly Glu Pro Ser
                85                  90                  95
Glu Arg Asp Ala Leu Ile Asn Asp Ile Pro Arg Ile Asn Ser Gly Met
            100                 105                 110
Ser Gln His Arg Arg His Lys Arg Gly Pro Arg Trp Leu Asn Ile Pro
        115                 120                 125
Ala Gln Val Met His Leu Thr Trp Glu Thr Leu Val Arg Asp Tyr Val
    130                 135                 140
Asn Val Leu Leu Val Phe Val Pro Leu Gly Ile Ile Ser Gly Ala Leu
145                 150                 155                 160
His Trp Asp Ser Thr Val Val Phe Ser Leu Asn Phe Leu Ala Ile Ile
                165                 170                 175
Pro Leu Ala Ser Leu Leu Ser Phe Ala Thr Glu Glu Leu Ala Ala Thr
```

```
            180                 185                 190
Met Gly Gln Ala Leu Gly Gly Leu Met Asn Ala Thr Phe Gly Asn Ala
        195                 200                 205
Val Glu Leu Ile Val Gly Leu Ser Val Arg Val Val Ser Cys Leu Thr
    210                 215                 220
Ile Ala Asp Leu Glu Asp Asn Gly Arg Ser Ala Ser Ser Leu
225                 230                 235

<210> 24525
<211> 216
<212> PRT
<213> A.fumigatus

<400> 24525
Pro Gly Gln Lys Cys Trp Ile Ser Glu Glu Tyr Glu Ala Val Arg Leu
1               5                   10                  15
Trp Thr His Tyr Ile Trp Ile Phe Leu Ala Glu Phe Gly Thr Val Cys
            20                  25                  30
Leu Tyr Ala Val Met Trp Phe Gln Leu Arg Ala Gln Ile Lys Gln Ser
        35                  40                  45
Ala Ile Leu Gly Ser Asn His Thr Ala Ser Leu Lys Arg Leu Arg Arg
    50                  55                  60
Val Ile Gly Tyr Met Val Ile Tyr Pro Ile Ala Tyr Ile Val Leu Ser
65                  70                  75                  80
Leu Pro Leu Ala Ala Gly Arg Met Ala Thr Ala Arg Gly Asn Thr Pro
                85                  90                  95
Ser Leu Ala Tyr Phe Cys Val Ala Gly Ala Ile Ile Thr Ser Ser Gly
            100                 105                 110
Leu Val Asp Val Leu Leu Tyr Thr Leu Thr Arg Arg Asn Leu Ile Leu
        115                 120                 125
Glu Ser Glu Pro Ser Glu Asp His Ser Tyr Asn Arg Phe Ala Ser Ser
    130                 135                 140
Lys Asn Arg Arg Asn Asp Asn His Leu Thr Thr Ile Thr Ala Asp Pro
145                 150                 155                 160
Lys His Thr Arg Thr Asp Ile Ser Val Leu Arg Thr Arg Arg Gly His
                165                 170                 175
Asp Glu Glu Glu Asp His Val Asp Ser Pro Thr Arg Asp Gly Ser Thr
            180                 185                 190
Asp Asn Ile Val Gln Pro Gly Val Glu Leu Ala Pro Met Val Phe Thr
        195                 200                 205
Arg Gly Gly Glu Gln Arg Arg Arg
    210                 215

<210> 24526
<211> 254
<212> PRT
<213> A.fumigatus

<400> 24526
Gly Pro Gly Met Arg Gly Cys Trp Tyr Tyr Val Lys Leu Arg Pro Gly
1               5                   10                  15
Leu Glu Ser Phe Leu Gln Asn Val Ser Glu Leu Phe Glu Leu His Ile
            20                  25                  30
Tyr Thr Met Gly Thr Arg Ala Tyr Ala Gln His Ile Ala Gly Ile Ile
        35                  40                  45
Asp Pro Asp Arg Lys Leu Phe Gly Asp Arg Ile Leu Ser Arg Asp Glu
```

```
    50                  55                  60
Ser Gly Ser Leu Thr Ala Lys Asn Leu Gln Arg Leu Phe Pro Val Asp
65                  70                  75                  80
Thr Lys Met Val Val Ile Ile Asp Asp Arg Gly Asp Val Trp Arg Trp
                85                  90                  95
Ser Pro Asn Leu Ile Lys Val Ser Pro Tyr Asp Phe Phe Val Gly Ile
            100                 105                 110
Gly Asp Ile Asn Ser Ser Phe Leu Pro Lys Lys Gln Glu Leu Gly Gly
        115                 120                 125
Val Val Gln Pro Ala Glu Gln Asp Ala Lys Gly Thr Lys Glu Leu Pro
    130                 135                 140
Met Gln Gln Pro Pro Pro Asn Arg Ala Ile Ala Lys Pro Ala Ala Glu
145                 150                 155                 160
Val Ser Thr Leu Glu Gln Leu Val Thr Met Gly Gly Gly Asp Asn Pro
                165                 170                 175
Arg Leu Leu Arg Glu Gln Cys Val Ala Gln Glu Glu Thr Ile Met His
            180                 185                 190
Gln Val Glu Asp Arg Pro Leu Leu Gln Lys Gln Lys Glu Leu Asp Ala
        195                 200                 205
Glu Asp Glu Ala Ala Glu Ser Gly Asp Ser Ala Ser Ser Val Glu Asp
    210                 215                 220
Thr Gln Asp Ser Thr Lys His Pro Thr Ser Phe Ile Gly Gly Gln Arg
225                 230                 235                 240
Ser Gly Thr Leu Arg Thr Gly Arg Thr Thr Gly Ala Asp Thr
                245                 250

<210> 24527
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24527
Ser Leu Glu Ile Leu Ser Arg Gln Ala Ala Ala Phe Val Ala Ala Glu
1               5                   10                  15
Asp Ala Ile Thr Lys Lys Leu Thr Val Arg Ile Tyr Asn Ala Ser Tyr
            20                  25                  30
Met Leu Cys Val Gly Ser Ser Thr His Gly Val Asn Val Gln Leu Glu
        35                  40                  45
Lys Leu Arg Asp Ile Leu Gln Glu Arg Leu Glu Pro Arg Ser Gln Leu
    50                  55                  60
Asp Val Val Pro Ala Thr Ala His Ala Arg Thr
65                  70                  75

<210> 24528
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24528
Tyr Arg Lys Ser Cys Ala Gly Trp Ile Ile Ile Leu Asn Thr Arg Glu
1               5                   10                  15
Ile Tyr Ile Gly Asp Ser Phe Arg Arg Met Cys Met Ala Ser Tyr Asn
            20                  25                  30
Asp Ser Leu Asn Ile Gly Thr His Pro Asn Thr Ala Asn Thr Ser Gly
        35                  40                  45
Tyr Pro Val Asn Gln Asn Tyr Arg Asp Tyr Trp Asn Thr Trp Thr Asn
```

```
    50                  55                  60
Arg His Trp Val
65

<210> 24529
<211> 288
<212> PRT
<213> A.fumigatus

<400> 24529
Pro Val Gln Ser Phe Leu Gln Leu Glu Ile Ile Ser Ala Tyr Asn Leu
1               5                  10                  15
Leu Val His Leu Val His Gln Ala Ser Asn Pro Asp Ile Phe Leu Ser
            20                  25                  30
Arg Ile Cys Thr Tyr Leu Ala Lys Pro Ile Thr Thr Ser Pro Gln Phe
        35                  40                  45
Gly Pro Thr Leu Ala Ile Ser Ile Leu Thr Thr Ile Phe Asn Thr Leu
    50                  55                  60
Ala Pro Thr Asp Ser Ser Arg Phe His Val Leu Leu Ala Ile Val Ala
65                  70                  75                  80
Val Ile Arg Gln Ser Gly Ser Ser Tyr Ala Phe Glu Ala Leu Lys Pro
                85                  90                  95
Gln Leu Ala Ala Gln Leu Pro Thr Trp Leu Ser Ala Trp Glu Leu Asp
            100                 105                 110
Asp Glu Asp Ala Gln Lys Leu His Leu Ala Ile Ala Asp Ala Ala Gln
        115                 120                 125
Ala Ser Gly Asp Leu Glu Leu Ala Gln Thr His Val Val Gln Ala Leu
    130                 135                 140
Gln Thr Ile Pro Ala Asn Glu Ser Ser Ser Lys Glu Ala Arg Asp Leu
145                 150                 155                 160
Ala Val Arg Ala Leu Thr Ser Ala Leu Lys Ser Pro Ala Val Phe Asp
                165                 170                 175
Phe Thr Ser Leu Thr Ala Ala Asp Ala Ile Gln Ala Leu Arg Ser Ser
            180                 185                 190
Asp Ser Thr Leu Phe Glu Leu Leu Glu Ile Phe Thr Ala Asp Thr Leu
        195                 200                 205
Asp Ala Tyr Glu Asp Phe Ile Ala Ala Thr Pro Leu Glu Thr Ile Ser
    210                 215                 220
Gly Gly Val Leu Val Asp Gly Ala Glu Ala Leu Gln Thr Lys Met Arg
225                 230                 235                 240
Leu Leu Thr Leu Ala Ser Leu Ala Ala Ser Thr Pro Ser Arg Ser Leu
                245                 250                 255
Pro Tyr Thr Thr Ile Ala Ser Ala Leu Arg Val Pro Val Glu Asp Val
            260                 265                 270
Glu Lys Trp Val Phe Thr Thr Gly Leu Gln Gly Ser Ala Thr Met Arg
        275                 280                 285

<210> 24530
<211> 280
<212> PRT
<213> A.fumigatus

<400> 24530
Ala His Cys Arg Gly Ser Leu Glu Pro Arg Gly Glu Asp Pro Leu Leu
1               5                  10                  15
His Ile Phe Asn Gly His Ala Gln Arg Arg Gly Asp Gly Ser Ile Gly
```

```
            20                  25                  30
Glu Gly Ala Arg Gly Ser Arg Ser Arg Lys Arg Ser Gln Gly Gln Gln
        35                  40                  45
Ala His Leu Gly Leu Gln Ser Leu Gly Ala Ile Asp Gln Asn Thr Ala
    50                  55                  60
Arg Asp Gly Phe Glu Arg Gly Gly Arg Asp Glu Ile Leu Val Gly Val
65                  70                  75                  80
Gln Ser Val Ser Gly Glu Asp Leu Gln Gln Leu Glu Gln Gly Ala Val
                85                  90                  95
Ala Gly Ala Lys Ser Leu Asp Gly Ile Gly Ser Gly Gln Arg Ser Glu
            100                 105                 110
Ile Glu Asn Gly Gly Ala Leu Gln Gly Gly Gly Gln Gly Thr Asp Gly
        115                 120                 125
Gln Val Ala Arg Phe Leu Ala Gly Gly Leu Val Gly Gly Asp Cys Leu
    130                 135                 140
Gln Gly Leu His His Met Gly Leu Cys Gln Phe Lys Ile Ala Arg Ser
145                 150                 155                 160
Leu Ser Gly Ile Gly Asn Ser Lys Val Gln Leu Leu Ser Ile Leu Val
                165                 170                 175
Ile Gln Leu Pro Gly Arg Gln Pro Gly Gly Gln Leu Ser Gly Gln Leu
            180                 185                 190
Arg Leu Gln Ser Leu Glu Gly Val Arg Arg Ala Gly Leu Ala Asn Asp
        195                 200                 205
Gly Asp Asp Gly Gln Glu Asp Val Glu Thr Ala Gly Val Gly Gly Ser
    210                 215                 220
Glu Ser Val Glu Asp Gly Gly Gln Asp Gly Asp Gly Glu Gly Gly Ala
225                 230                 235                 240
Lys Leu Arg Arg Gly Gly Asp Arg Phe Gly Glu Val Gly Ala Asn Ala
                245                 250                 255
Gly Glu Glu Asn Ile Arg Val Gly Gly Leu Val His Gln Val His Gln
            260                 265                 270
Glu Val Val Gly Gly Asn Asp Phe
        275                 280

<210> 24531
<211> 75
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24531
Thr Met Thr Leu Ser Thr Pro Gly Gly Lys Ala Ala Ala Met Thr Leu
1               5                   10                  15
Gly Pro Leu Leu Pro Ile Val Leu Arg His Leu Gly Pro Leu Tyr Val
            20                  25                  30
Phe Trp Thr Leu Xaa Ile Ser Leu Phe Ser Asn Ala Ile Thr Asn Arg
        35                  40                  45
Phe Cys Pro Ser Thr Ala Ile Ser Ala Phe Ser Ser Gln Leu Tyr Thr
    50                  55                  60
Asn Thr Glu Ile Asp Cys His Glu Pro Pro Gly
65                  70                  75
```

<210> 24532
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24532
Ser Met Ile Pro Met Phe Ala Thr Phe Ile Asn Ala Ala His Ala Gln
1 5 10 15
Tyr Asp Pro Ile Arg Leu Cys Ser Tyr Phe Ser Val Ser Ser Asp Gly
20 25 30
Lys Phe Leu Leu His Gly Gln Cys Gly Thr Gln Ala Val Gln Phe Cys
35 40 45
Ala Gly Leu Val Ala Gly Val Ala Phe Pro Glu Arg Ile Leu Leu Met
50 55 60

<210> 24533
<211> 325
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (46)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24533
Gln Gly Tyr Thr Thr Pro Pro Arg Cys Asp Phe Asp Thr Val Arg Ile
1 5 10 15
Asn Leu Thr Val Thr Phe Arg Gly Arg Gln Tyr Asp Arg Leu Ala Ile
20 25 30
Met Tyr Leu Gly Asp Ala Glu Val Phe Arg Thr Ser Thr Xaa Glu Pro
35 40 45
Thr Thr Asn Gly Ile Val Trp Thr Tyr Ile Lys Glu Met Ser His Tyr
50 55 60
Asn Ala Leu Trp Lys Glu Pro Gln Lys Leu Ile Phe Asp Leu Gly Asn
65 70 75 80
Leu Ile Ser Asp Ala Tyr Thr Gly Ser Phe Asn Ala Thr Leu Thr Ala
85 90 95
Val Phe Ser Gln Arg Gly Thr Thr Ile Arg Thr Ala Asp Met Ile Leu
100 105 110
Pro Ile Ser Ala Arg Lys Ser Ala Ala Asn Ala Ser Ser Ala Leu Ile
115 120 125
Val Pro Ser Asp Asn Val Glu Ile Ala Tyr Arg Leu Pro Ser Asn Thr
130 135 140
Ser Arg Ala Ile Val Ser Ile Ser Ala Cys Gly Gln Ser Thr Glu Glu
145 150 155 160
Phe Trp Trp Ser Asn Val Phe Ser Pro Asp Thr Glu Ser Phe Val Asn
165 170 175
Thr Val Gly Glu Leu Tyr Gly Tyr Ser Pro Phe Arg Glu Ile Gln Leu
180 185 190
Tyr Ile Asp Gly Leu Leu Ala Gly Val Ile Trp Pro Phe Pro Ile Ile
195 200 205
Phe Thr Gly Gly Val Ser Pro Gly Phe Trp Arg Pro Ile Val Gly Ile
210 215 220
Asp Ala Phe Asp Leu Arg Gln Pro Glu Ile Asp Ile Ser Pro Phe Leu
225 230 235 240

```
Pro Leu Leu Thr Asp Gly Gln Lys His Ser Phe Glu Ile Lys Ile Val
                245                 250                 255
Gly Leu Glu Leu Gln Ala Asn Gly Thr Val Arg Leu Ser Asp Ser Val
            260                 265                 270
Gly Thr Tyr Trp Val Val Thr Gly Asn Ile Phe Leu Tyr Leu Glu Glu
        275                 280                 285
Asp Ala Ser His Ser Arg Thr Asp Gln Ser Ser Val Pro Gln Ile Thr
    290                 295                 300
Ala Pro Thr Pro Gln Phe Thr Ile Thr Arg Leu Leu Thr Lys Asn Ala
305                 310                 315                 320
Thr Gly Ala Asn Asp
                325
```

<210> 24534
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24534

```
His Thr Gly Leu Leu Asp Tyr Ala Ala Pro Glu Val Leu Gln Gly Lys
1               5                   10                  15
Ser Tyr Arg Gly Lys Glu Gln Asp Ile Trp Ala Leu Gly Ile Leu Leu
            20                  25                  30
Tyr Thr Ile Val Tyr Lys Glu Asn Pro Phe Tyr Asn Ile Asp Glu Ile
        35                  40                  45
Leu Asp His Pro Leu Arg Ile Pro Phe Leu Pro Phe Ser Glu Glu Cys
    50                  55                  60
Ile Asp Leu Ile Lys Lys Met Leu Asp Arg Asp Val Asp Asn Arg Leu
65                  70                  75                  80
Thr Ile Thr Glu Val Met Glu His Pro Trp Met Leu Tyr Asn
                85                  90
```

<210> 24535
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24535

```
Ala Thr Thr Leu Pro Ala Leu Pro Thr Arg Asp Glu Ile Leu Phe Phe
1               5                   10                  15
Trp Ile Thr Ala Gly Thr Asn Leu Gly Ile Lys Ser Ser Ile Tyr Arg
            20                  25                  30
His Phe Phe Ala Gly Arg Asn Met Ala Thr Cys Ser Tyr Tyr Gly Phe
        35                  40                  45
Leu Phe Met Asn His Ser Ser Thr Thr Leu Ala Ser Asn Pro Pro Met
    50                  55                  60
Val Phe Val Ser Phe Arg Leu Arg Ser Cys
65                  70
```

<210> 24536
<211> 175
<212> PRT
<213> A.fumigatus

<400> 24536

```
Glu Val Lys Leu Ala Arg Leu Lys Lys Asn Pro Ser Lys Lys Val Val
```

```
1               5                   10                  15
Leu Lys Tyr Val Thr Lys Lys Arg Ile Leu Val Asp Thr Trp Thr Arg
            20                  25                  30
Asp Arg Arg Leu Gly Thr Val Pro Leu Glu Ile His Val Leu Asp Tyr
        35                  40                  45
Leu Arg Arg Asp Gly Leu Lys His Pro Asn Ile Val Glu Met Glu Gly
    50                  55                  60
Phe Phe Glu Asp Asp Val Asn Tyr Tyr Ile Glu Met Met Pro His Gly
65                  70                  75                  80
Leu Pro Gly Met Asp Leu Phe Asp Tyr Ile Glu Leu Lys Val Asn Met
                85                  90                  95
Asp Glu Val Glu Cys Arg Asn Ile Phe Arg Gln Val Val Asp Ala Ile
            100                 105                 110
His His Leu His Thr Lys Ala Leu Val Val His Arg Asp Ile Lys Asp
        115                 120                 125
Glu Asn Val Ile Leu Asp Gly Glu Gly Arg Ile Lys Ile Ile Asp Phe
    130                 135                 140
Gly Ser Ala Ala Tyr Ile Lys Asn Gly Pro Phe Asp Val Phe Val Gly
145                 150                 155                 160
Thr Ile Gly Lys Ser Ile Thr Met Leu Leu Leu Thr Val Ile Val
                165                 170                 175
```

<210> 24537
<211> 265
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24537

```
Pro Ser Tyr Ala Leu Met Ala Gly Ala Trp Xaa Asp Glu Xaa Ala Gly
1               5                   10                  15
Gly Ala Ala Ser Lys Ser Ser Leu Ile Thr Arg Asp Val Pro Thr Lys
            20                  25                  30
Thr Ile Thr Cys Glu Val Lys Ser Asp Asp Glu Ile Tyr Glu Trp Ile
        35                  40                  45
Asp Lys Ile Tyr Glu Arg Cys Pro Gly Met Gly Gly Val Ser Asn Pro
    50                  55                  60
Thr Asn Phe Ser His Arg Val His Val Gly Phe Asp Pro Gln Thr Gly
65                  70                  75                  80
Ala Phe Val Gly Leu Pro Pro Glu Trp Glu Lys Leu Leu Thr Ala Ser
                85                  90                  95
Ala Ile Thr Lys Glu Asp Tyr Lys Lys Asn Pro Gln Ala Val Ile Glu
            100                 105                 110
Val Leu Glu Phe Tyr Ser Asp Ile Lys Met Arg Glu Gln Asn Pro Gln
        115                 120                 125
Tyr Tyr Ala Gly Leu Ala Gly Pro Pro Ser Gly Gln Gln Ser Lys Pro
    130                 135                 140
Asn Asn Asn Asn Asn Asn Asn Asn Ser Val Gly Ser Leu Ile Ala Pro
145                 150                 155                 160
Pro Arg Pro Pro Pro Pro Gly Pro Ala Gln Arg Leu Asp Asn Gly His
                165                 170                 175
Ser Gln Thr Ser Arg Ser Ala Asn Ser Ser Pro Ser Gln Arg Ala Glu
```

```
            180                 185                 190
Ser Asp Arg Ala Leu Asp Gln Gln Gln Leu Glu Arg Met Lys Glu
        195                 200                 205
Met Ala Glu Gln Glu Arg Arg Arg Val Glu Asp Glu Thr Arg Arg Ala
    210                 215                 220
Arg Gln Arg Glu Asp Glu Gln Asn Lys Leu Asp Gln Glu Ala Tyr Asn
225                 230                 235                 240
Ala Ser Ile Pro Lys Thr Arg Val Pro Leu Ala Lys Gln Glu Leu Gly
                245                 250                 255
Arg Leu Arg Arg Arg Arg Phe Asp Gly
            260                 265
```

<210> 24538
<211> 172
<212> PRT
<213> A.fumigatus

<400> 24538

```
Thr Val Gln Arg Pro Ala Pro Ala Pro Pro Asn Thr Ser Ser Asn Gly
1               5                   10                  15
Ser Ala Lys Asn Ser Pro Asn Ala Arg Tyr Ala Pro Asn Asp Pro Arg
            20                  25                  30
Ser Gln Ala Ala Arg Ala His Gly Asn Gly Thr Lys Thr Ala Gln Gly
        35                  40                  45
Pro Pro Pro Ser Lys Leu Pro Ala Pro Val Gln Ala Val Lys Pro Leu
    50                  55                  60
Asn Ile Ala Asn Lys Gln Thr Thr Gln Lys Gly Asn Val Pro Asp Ser
65                  70                  75                  80
Val Arg Gln Ala Glu Ala Ala Leu Thr Lys Lys Ala Glu Pro Arg His
                85                  90                  95
Lys Glu Val Arg Met Ser Ala Met Ser Glu Asn Glu Val Met Asp Arg
            100                 105                 110
Leu Arg Ser Val Val Ser Lys Asp Asn Pro Asn Glu Ser Tyr Ser Lys
        115                 120                 125
Gln Arg Lys Ile Gly Gln Gly Ala Ser Gly Ser Val Tyr Val Ala Arg
    130                 135                 140
Val Lys Glu His Ala Val Ser Pro Val Ala Arg Glu Leu Tyr Arg Gln
145                 150                 155                 160
Tyr Gly Leu His His Gly Ala Gly Arg Asn Arg Ala
                165                 170
```

<210> 24539
<211> 65
<212> PRT
<213> A.fumigatus

<400> 24539

```
Ser Leu Asp Asn Ser Leu Asp Lys Ile Ser Lys Pro Leu Leu Pro Thr
1               5                   10                  15
Leu Tyr Arg Leu Leu Ser Lys Ser Arg Thr His Met Ala Ser Asp Asn
            20                  25                  30
Asn Ala Lys Cys Pro Ile Val Cys Thr Glu Glu Ala Ala Gln Tyr Asp
        35                  40                  45
Val His Pro Thr Val Pro Val Pro Asn Gly Arg Ala Arg Gln Gly Asn
    50                  55                  60
Asn
```

65

<210> 24540
<211> 315
<212> PRT
<213> A.fumigatus

<400> 24540
Gly Leu Gly Asp Ser Val Asp Ala Tyr Arg Lys Phe Ser Gly Arg Ala
1 5 10 15
His Leu Ser Thr Arg Asn Val Val Ser Asn Lys Met Gly Thr Val Phe
20 25 30
Lys Thr Ala Tyr Met Leu Thr Ile Pro Glu Leu Leu Tyr Ser Ile Lys
35 40 45
Arg Ala Trp Ser Gly Gly Val Asn Met Val Val Leu Arg Gly Tyr Thr
50 55 60
Tyr Ser Gly Asn Tyr His Asn Thr Thr Trp Pro Gly Tyr Ala Ala Phe
65 70 75 80
Asn Phe Glu Val Ser Glu Met Trp Asn Gln Phe Gln Pro Ala Trp Ile
85 90 95
His Met Lys Asp Tyr Leu Asp Tyr Ile Ser Arg Asn Gln Tyr Val Leu
100 105 110
Gln Gln Gly Arg Pro Gln Val Asp Leu Ala Leu Tyr Leu Tyr Glu Thr
115 120 125
Pro Trp Ser Ala Val Asp Leu Leu His Ser Asn Asn Ile Thr Ala Ala
130 135 140
Gly Arg Leu Ser Leu Met Cys Phe Lys Met Glu Leu Thr Leu Met Thr
145 150 155 160
Gly Tyr Thr Tyr Asp Tyr Val Ala Pro Asp Asn Leu Val Ser Pro Gln
165 170 175
Ala Thr Val Arg Ala Lys Val Leu Ala Pro Asp Gly Pro Asn Tyr Lys
180 185 190
Ala Leu Val Phe Ala Ser Pro Glu Tyr Asn Ile Ser Thr Phe Asn Leu
195 200 205
Val Arg Glu Asp Val Ala Ala Arg Val Val Lys Phe Ala Gln Lys Gly
210 215 220
Leu Pro Val Val Phe Val Gly Gly Leu Pro Gln Val Thr Ser Asn Ser
225 230 235 240
Gln Ala Gly Gln Ile Val Glu Asp Gly Trp Arg Arg Leu Arg Asn Leu
245 250 255
Pro Ser Val Gln Phe Ile Ser Ser Leu Ala Asp Leu Pro Gly Asp Leu
260 265 270
Ser Lys Ala Gly Val Arg Pro Asp Val Leu Pro Ser Cys Thr Thr Gly
275 280 285
Thr Leu Arg Val Val Lys Arg Ser Arg Pro Asp Asp Glu Val Asp Tyr
290 295 300
Val Phe Val His Asn Asp Gln Leu Tyr Lys Gln
305 310 315

<210> 24541
<211> 296
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (282)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24541
His Thr Trp Gln Ser Tyr Arg Asp Arg Tyr Leu Lys Arg Leu Arg Gly
1 5 10 15
Lys Ser Arg Pro Gly Gly Glu Ser Ala Ser Thr Gly Gln Ala Pro Ala
20 25 30
Glu Pro Gly Ser Thr Thr Arg Gln Phe Gln Val Pro Gly Pro Ala Pro
35 40 45
Ala Lys Ser His Glu Arg Cys Glu Asn Ala Pro Ala Thr Thr Lys Lys
50 55 60
Ile Asp Ala Arg Lys Arg Lys Arg Ser Leu Asp Gly Asp Glu Pro Asp
65 70 75 80
Arg Thr Glu Gly Gln Arg Thr Asp Asp Arg Pro Lys Lys Arg Pro Val
85 90 95
Pro Ala Thr Leu Pro Glu Lys Ser Thr Thr Ala Ala Arg His Arg Val
100 105 110
His Glu Glu His Pro Thr His Thr Glu Pro Glu Val Ala Thr Ala Ser
115 120 125
Lys Arg Thr Asp Gln Gln Arg Lys Glu Glu Pro Lys Pro Lys Asp Lys
130 135 140
Gly Gly Thr Thr Val Val Gln Val His Lys Thr Gln Gln Leu Ser Glu
145 150 155 160
Ala Pro Asp Ser Ile Pro Asp Asn Phe Leu Phe Glu Leu Pro Phe Phe
165 170 175
Pro Ser Ser Pro Glu Ser Gln Glu Glu Pro Pro Gln Glu Gln Asp Ile
180 185 190
Asp Thr Trp Ile Asp Asp Arg Leu Arg Thr Gly Arg Ala Asp Asn Glu
195 200 205
Glu Gln Val Ile Glu Ala Leu Gln Cys Thr Ser Met Asp Pro Arg Leu
210 215 220
Ala Asp Lys Val Leu Glu Tyr Leu Ala Ala Gly Lys Gly Ile Pro Glu
225 230 235 240
Asp Met Pro Gly Val Trp Thr Pro Glu Asp Asp Glu Cys Val Glu Val
245 250 255
Gly Asp Ser Arg Ala Ile Glu Arg Val Leu Lys Lys His Gly Ser Glu
260 265 270
Ala Phe Glu Ala Arg Trp Asn Tyr Leu Xaa Met Ala Arg Ala Ala Ser
275 280 285
Leu Ser Gly Gly Gly Met Gly Asp
290 295

<210> 24542
<211> 118
<212> PRT
<213> A.fumigatus

<400> 24542
Val Gly Asp Lys Arg Gly Ser Leu Pro Pro Ser Trp Leu Lys Thr Val
1 5 10 15
Gln Ser Leu Gly Val His Pro Leu Leu Asn Gln Ile Arg Ile Arg Phe
20 25 30
Ile Asp Leu Asp Ser Ala Cys Pro Leu Leu Asn Pro Tyr Phe Gln Leu
35 40 45
Ser Gly Asn Leu Cys Thr Gly Leu Trp Ser Asp Arg Ile Leu Tyr Ala

```
    50                  55                  60
Leu Asn Glu Phe Arg Pro Gln Ala Arg Phe Val Glu Leu Arg Asp Gly
65                  70                  75                  80
Ile Tyr Pro Gln Tyr Gly Pro Asn Ser Gln Ile Val Gly Ala Val Leu
                85                  90                  95
Pro Arg Ala Arg Pro Leu Ser Ile His Ala Cys Ala Tyr Arg Ile Ile
            100                 105                 110
Ala Asp Ala Gly Lys Pro
        115
```

<210> 24543
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24543

```
Pro Gln Thr Ala Pro Ser Cys Ile Tyr Ser Xaa Ala Gly Gly Ala Pro
1               5                   10                  15
His Arg Arg Leu Asp Arg Ser Leu Phe Ile Arg Gln Met Leu Pro Val
            20                  25                  30
Gly Val Arg His Pro Arg Ser Tyr Leu Gly Lys Lys Ser Leu Ala Gly
        35                  40                  45
Thr Met Leu Ala Gln Thr Phe Ala Phe Val Thr Phe Asn Lys Val Cys
    50                  55                  60
Thr Ser Gln Val Arg Ser Phe Phe Val Val His Leu Pro Ile Glu Thr
65                  70                  75                  80
Cys
```

<210> 24544
<211> 84
<212> PRT
<213> A.fumigatus

<400> 24544

```
Gly Val Arg Gln Gly Asn Met Ile Arg Ser Gly Ser Arg Trp Ile Phe
1               5                   10                  15
Thr Pro Lys Leu Phe Gly Ala Ala Thr Glu Gly Gly Thr Asn Val Leu
            20                  25                  30
Glu Val Lys Tyr Phe Lys Arg Asn Ala Tyr Leu Ala Gln Ser Pro Gln
        35                  40                  45
Leu Tyr Lys Gln Met Cys Ile Ala Gly Asp Met Glu Ser Val Phe Glu
    50                  55                  60
Ile Ala Pro Val Phe Arg Ala Glu Asp Ser Asn Thr His Arg His Leu
65                  70                  75                  80
Thr Glu Val Cys
```

<210> 24545
<211> 230
<212> PRT

<213> A.fumigatus

<400> 24545
Ser Phe Phe Leu Lys Phe Ala Gly Leu Asp Phe Glu Lys Thr Phe Arg
1 5 10 15
Ser His Tyr His Glu Val Leu Glu Phe Ala Glu Asn Leu Leu Val Phe
20 25 30
Ile Leu Ser Gln Leu Lys Glu Arg Tyr Lys Asp Gln Ile Ala Ile Ile
35 40 45
Gln Lys Ser Tyr Pro Lys Ala Gly Asp Phe Lys Leu Pro Lys Asp Gly
50 55 60
Lys Ala Leu Arg Leu Asn Tyr Met Asp Gly Val Ala Leu Leu Lys Glu
65 70 75 80
Ala Gly Val Asp Val Ser Glu Gln Glu Arg Phe Glu Asn Asp Leu Thr
85 90 95
Thr Ala Met Glu Lys Gln Leu Gly Gln Ile Ile Arg Asp Lys Tyr Asp
100 105 110
Thr Asp Phe Tyr Val Leu Asp Lys Phe Pro Met Ala Val Arg Pro Phe
115 120 125
Tyr Thr Lys Ala Cys Pro Gln Asp Pro Arg Phe Ser Asn Ser Tyr Asp
130 135 140
Phe Phe Met Arg Gly Glu Glu Ile Met Ser Gly Ala Gln Arg Ile Asn
145 150 155 160
Asp Ile Lys Glu Leu Glu Glu Ser Met Ile Ala Lys Gly Leu Asp Pro
165 170 175
Lys Gln Glu Gly Phe Glu Asp Tyr Leu Ala Ala Phe Arg Gln Gly Cys
180 185 190
Pro Pro His Ala Gly Gly Gly Leu Gly Leu Asn Arg Ile Val Met Phe
195 200 205
Phe Leu Gly Leu Pro Asn Val Arg Leu Ala Ser Leu Phe Pro Arg Asp
210 215 220
Pro Gln Arg Leu Arg Pro
225 230

<210> 24546
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24546
Ala Thr Pro Arg Arg Thr Ile Ser Cys Arg Gln Leu Thr Ser Val Ser
1 5 10 15
Leu Ser Gln Gln Val Glu Glu Thr Ala Phe Gln Thr Val Glu Ala Leu
20 25 30
Ala Thr Phe Val Ala Arg Ile Val Thr Val Gln Phe Ala Asn Glu Arg
35 40 45
Val Thr Val Arg Val Glu Lys Pro Ser Ala Leu Ser Phe Val Glu Arg
50 55 60
Ser Gly Ile Glu Ile Thr Arg Ser Gln Ala Phe Phe Glu Lys Ser Asp
65 70 75 80
Leu Glu Gly Gly Arg Val
85

<210> 24547
<211> 128
<212> PRT

<213> A.fumigatus

<400> 24547
Leu Gly Ser Val Ala Gln Arg Arg Leu Pro Trp Glu Ser Thr Thr Gln
1 5 10 15
Ala Ser Ala Thr Leu Ala Leu Val Asn Pro Val Leu Trp Tyr Leu Ile
20 25 30
Asp Arg Thr Lys Ala Gly Phe Leu Leu Ser Thr Val Val Gly Leu Ala
35 40 45
Gly Thr Gly Val Val Leu Gly Leu Lys Pro Glu Leu Val Pro Ala Ser
50 55 60
Ala Asp Thr Pro Ala Thr Thr Ile Pro Leu Leu Asn Gly Thr Val Leu
65 70 75 80
Glu Tyr Gly Leu Pro Thr Gly Leu Thr Gln Glu Gly Val Ser Val Arg
85 90 95
Ile Trp Leu Ala Ser Val Leu Phe Cys Ala Cys Val Cys Phe Gly Asn
100 105 110
Val Gly Arg Gln Leu Ala Ile Gly Gly Thr Gly Arg Asp Arg Leu Gly
115 120 125

<210> 24548
<211> 72
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(46),(47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24548
Gly Ser Lys Xaa Pro Gln Tyr Met Ile Asn Ala Leu Ile Lys Lys Pro
1 5 10 15
Glu Thr Leu Glu Ala Ser Val Lys Val Glu Lys Ser Ala Pro Met Ala
20 25 30
Pro Asn Asn Ala Val Met Asn Tyr Met Ala His Leu Ser Xaa Xaa Ser
35 40 45
Ile Phe His Thr Lys Val Asp Ile Arg Ile Lys Cys Asn Gln Ala Lys
50 55 60
Thr Tyr His Ser Asn Pro Gln Glu
65 70

<210> 24549
<211> 395
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (35),(80),(326)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24549
Phe Met Thr Ala Leu Phe Gly Ala Ile Gly Ala Leu Phe Ser Thr Leu
1 5 10 15
Thr Glu Ala Ser Lys Val Ser Gly Phe Leu Ile Ser Ala Leu Ile Met

```
            20                  25                  30
Tyr Cys Xaa Tyr Leu Glu Pro Tyr His Ala Met His Pro Trp Phe Ile
        35                  40                  45
Trp Ile Tyr Trp Ile Asn Pro Leu Ala Tyr Ala Leu Asp Ala Leu Leu
    50                  55                  60
Ser Ile Glu Phe His Asn Lys Ile Ile Pro Cys Val Gly Asn Asn Xaa
65                  70                  75                  80
Val Pro Phe Gly Pro Gly Tyr Asp Asp Thr Thr Phe Gln Ser Cys Ala
                85                  90                  95
Gly Val Gly Gly Ala Val Arg Gly Met Thr Tyr Val Thr Gly Asp Gln
            100                 105                 110
Tyr Leu Ala Ser Leu Thr Tyr Ser Tyr Ser His Val Trp Arg Asn Phe
        115                 120                 125
Gly Ile Leu Trp Ala Trp Trp Ala Leu Phe Val Ala Val Thr Ile Ile
    130                 135                 140
Ala Thr Ser Arg Trp Lys Ser Ala Ala Glu Ala Gly Asn Ser Leu Leu
145                 150                 155                 160
Ile Pro Arg Glu Thr Val Ala Lys His His Ala Val Val Arg Lys Asp
                165                 170                 175
Glu Glu Ala Gln Leu Asn Glu Lys Ala Gly His Lys Gly Thr Ser Thr
            180                 185                 190
Asp Ser Glu Ala Gln Ser Asn Val Asp Gln His Leu Val Arg Asn Thr
        195                 200                 205
Ser Val Phe Thr Trp Lys Asn Leu Thr Tyr Thr Val Lys Thr Pro Ser
    210                 215                 220
Gly Asp Arg Val Leu Leu Asp Asn Val Tyr Gly Trp Val Lys Pro Gly
225                 230                 235                 240
Met Leu Gly Ala Leu Met Gly Ser Ser Gly Ala Gly Lys Thr Thr Leu
                245                 250                 255
Leu Asp Val Leu Ala Gln Arg Lys Thr Asp Gly Thr Ile Arg Gly Ser
            260                 265                 270
Ile Met Val Asp Gly Arg Pro Leu Pro Val Ser Phe Gln Arg Ser Ala
        275                 280                 285
Gly Tyr Cys Glu Gln Leu Asp Val His Glu Pro Phe Ala Thr Val Arg
    290                 295                 300
Glu Ala Leu Glu Phe Ser Ala Leu Leu Arg Gln Pro Arg His Ile Pro
305                 310                 315                 320
Arg Glu Glu Lys Leu Xaa Tyr Val Asp Val Ile Ile Asp Leu Leu Glu
                325                 330                 335
Trp His Asp Leu Glu His Thr Leu Ile Gly Arg Val Gly Ala Arg Leu
            340                 345                 350
Ser Val Glu Gln Arg Lys Arg Val Thr Ile Gly Val Glu Leu Val Ser
        355                 360                 365
Lys Pro Ser Ile Leu Ile Phe Leu Asp Glu Pro Thr Ser Gly Leu Asp
    370                 375                 380
Arg Ser Ser Pro Phe Asn Thr Val Arg Phe Leu
385                 390                 395
```

<210> 24550
<211> 231
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (71),(75)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24550

```
Ile Ser Arg Gly Ile Arg Cys Leu Gly Lys Asn Arg Phe Cys Asn Arg
1               5                  10                  15
Tyr Trp Trp Val Glu Arg His Gly Met Pro Tyr Gly Gly Met Pro Asn
            20                  25                  30
Ser Ser Thr Ala Glu Ala His Tyr Ala Asn Val Arg Phe Trp Val Gln
        35                  40                  45
Gly Pro Asp Glu Met Glu Arg Val Gly Phe Ile Asp Val Pro Asp Asp
    50                  55                  60
Gln Arg Lys Gln Tyr Gln Xaa Glu Phe His Xaa Thr Pro Ala Glu Arg
65                  70                  75                  80
Lys Lys Asn Glu Glu Gly Pro Thr Arg Leu Ser Thr Ala His Glu Trp
                85                  90                  95
Gly Tyr Tyr Asp Asp Pro Asp Val Ile Asp Lys Leu Ile Asp Trp Leu
            100                 105                 110
Asp Pro Arg Gly Asn Arg Glu Ser Arg Leu Arg Lys Glu Leu Gln Leu
        115                 120                 125
Gln Arg Asp His Ile Val Lys Tyr Met Lys Cys Arg Lys Lys Tyr Leu
    130                 135                 140
Glu Gln Thr Ala Glu Arg Ala Glu Ser Glu Glu Leu Gln Thr Lys Arg
145                 150                 155                 160
Met Thr Thr Arg Asn Lys Thr Tyr Val Asp Asp His Lys His Arg Cys
                165                 170                 175
Leu Lys Trp Arg Asn Thr Thr Ala Leu Ser Glu Asn Gly His Leu His
            180                 185                 190
Val Asp Pro Ser Arg Pro Ser Lys Arg Ala Lys Arg Val Thr Asp Glu
        195                 200                 205
Ser Lys Glu Ile Lys Ala Thr Ser Arg Gln Gly Lys Pro Leu Thr Arg
    210                 215                 220
Gln Gly Thr Arg Tyr Asn Phe
225                 230
```

<210> 24551
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24551

```
Ser Ala Thr Cys Ile Tyr Lys Tyr Pro Asn Asn Pro Pro Thr Phe Pro
1               5                  10                  15
Asn Thr Ile Asn Ser Phe Thr Arg Ala Leu Asp Ala Met Leu Phe Arg
            20                  25                  30
Ser Gly Tyr Ile Lys Met Asn Pro Asn Phe His Gly Leu Val Ala Lys
        35                  40                  45
Val Cys Arg Arg Lys Arg Asn Ala Lys Thr Leu Val Ala Leu Pro Met
    50                  55                  60
Pro Thr Arg Lys
65
```

<210> 24552
<211> 202
<212> PRT
<213> A.fumigatus

<400> 24552
Arg Asn Cys Thr Thr Thr Ser His Met Gln Gly Ala Val Ile Leu Leu
1 5 10 15
Ile Val Arg Leu Arg Leu Arg Cys Phe Thr Ile Asp Asn Val Leu Ile
20 25 30
Leu Pro Val Thr Arg Ile Cys Glu Val Asp His Leu Cys Phe Ser Gln
35 40 45
Thr Leu Glu Ile Gln Lys Tyr Ile Asn Lys Pro Gly Thr Trp Ala Ala
50 55 60
Leu Gly Val Pro Glu Ala Val Arg Asn Phe Ser Ile Glu Ser Thr Glu
65 70 75 80
Val Ala Ser Ala Phe Glu Thr Thr Thr Asp Leu Tyr Ser Asn Val Met
85 90 95
Lys Asp Ile Lys Tyr Thr Leu Glu His Gly Val Asp Val Leu Ile Tyr
100 105 110
Asn Gly Asn Leu Asp Leu Ala Cys Asn Thr Ala Gly Asn Leu Arg Trp
115 120 125
Ala Glu Ala Leu Arg Trp Asn Gly Gln Ala Pro Phe Thr Ser Glu Lys
130 135 140
Leu Lys Pro Trp Tyr Ser Asn Val Arg Gly Ser Arg Val Lys Ala Gly
145 150 155 160
Ser Phe Lys Glu Val Phe Ala Ser Ile Pro Asn Gly Val Ser Gly Lys
165 170 175
Gln Arg Phe Ala Phe Val Thr Val Asp Lys Ser Gly His Met Val Ser
180 185 190
Ala Ser Val Ile Ala Ala Glu Tyr Gly Ser
195 200

<210> 24553
<211> 119
<212> PRT
<213> A.fumigatus

<400> 24553
Ala Asn Tyr Ser Pro Leu Phe Phe Ile Phe Phe Cys Val Phe Asp Thr
1 5 10 15
Gly Asp Lys Leu Lys Phe Arg Asp Leu Leu Pro Pro Lys Pro Asp Asp
20 25 30
Pro Pro Arg Val Ser His Ala Val Thr Pro Thr Arg Ser Gly Ile Ile
35 40 45
Trp Ser Gly Lys Glu Leu Asn Gln Ser Cys Phe Asp Cys Thr Thr Leu
50 55 60
Pro Val Pro Lys Tyr Val Gln Met Val Gln Tyr Ile Phe Ser Ser Pro
65 70 75 80
Cys Asn Ser Thr Tyr Pro His His Ser Ser Pro Gln Asp Gly Lys Phe
85 90 95
Tyr Gly Val Asn Gln Leu Leu Gln Phe His Pro Val Glu Leu Asn Ala
100 105 110
Thr Tyr Arg His Ser His His
115

<210> 24554
<211> 151
<212> PRT
<213> A.fumigatus

<400> 24554
Val Leu Gly Ile Ala Leu Thr Asp Thr Phe Gly Thr Pro Ala Phe Leu
1 5 10 15
Asp Ala Phe Arg Lys Pro Ile Pro His His Thr Ser Ala Gly Val Gly
20 25 30
Ala Val Ala Thr Ile Ala Ser Gly Ala Ser Thr Thr Ser Glu Ser Gln
35 40 45
Pro Gln Ser Glu Ala Glu Thr Lys Pro Pro Val Thr Ala Pro Leu His
50 55 60
Glu Asn Asp Ser Gln His Ser Pro Lys Thr Tyr Ala Gln Val Tyr Thr
65 70 75 80
Gly Val Arg Gln Asp Ser Gly Asp Pro Thr Tyr Phe Val Lys Met Val
85 90 95
Arg Asp Phe Tyr Asp Asn Glu Gly Ile Lys Glu Lys Lys Thr Val Val
100 105 110
Phe Ser Asp Ser Leu Asn Ile Glu His Cys Leu Glu Tyr Lys Thr Ile
115 120 125
Ala Glu Glu Ala Gly Phe Ala Pro Ile Phe Gly Val Gly Thr Phe Phe
130 135 140
Thr Ser Glu Phe Tyr Pro Val
145 150

<210> 24555
<211> 247
<212> PRT
<213> A.fumigatus

<400> 24555
Arg Arg Gln Ala Thr His His His Thr Arg Ser Ser Val Leu Pro Ser
1 5 10 15
Pro Ile His Ser Val Pro Arg Leu Ser Ser Thr Pro Ser Ala Ser Arg
20 25 30
Ser Leu Thr Ile Pro Ala Gln Val Ser Ala Pro Ser Pro Gln Leu His
35 40 45
Arg Glu Arg Ala Gln Gln Ala Ser Arg Ser Leu Arg Val Arg Pro Lys
50 55 60
Pro Asn Pro Gln Ser Pro Leu Pro Ser Met Lys Thr Thr Pro Ser Thr
65 70 75 80
Leu Arg Arg His Met Arg Arg Ser Thr Arg Ala Ser Val Arg Thr Pro
85 90 95
Ala Thr Gln Pro Thr Ser Ser Arg Trp Ser Ala Thr Phe Thr Thr Met
100 105 110
Arg Gly Ser Lys Arg Arg Arg Leu Ser Cys Phe Gln Ile Arg Ser Thr
115 120 125
Ser Ser Thr Ala Ser Ser Thr Arg Pro Leu Pro Arg Arg Leu Ala Ser
130 135 140
Pro Pro Ser Ser Val Ser Gly Leu Ser Ser Pro Val Ser Ser Ile Pro
145 150 155 160
Ser Ser Pro Gln Ser Thr Val Ser Leu Thr Val Leu Leu Ala Asp Asp
165 170 175
Phe Thr Asn Lys Ser Asp Gly Lys Lys Ser Lys Pro Leu Asn Ile Val
180 185 190
Ile Lys Ile Ala Thr Ala Asn Gly Arg Pro Ala Val Lys Leu Ser Asp
195 200 205
Asn Met Gly Lys Asn Thr Gly Asp Lys Asn Met Val Gln Glu Val Lys
210 215 220

```
Lys Arg Leu Gly Tyr Ile Glu His Tyr Trp Glu Glu Gly Asp Glu Ser
225                 230                 235                 240
Asn Arg Trp Ala Lys His Gly
                245
```

<210> 24556
<211> 114
<212> PRT
<213> A.fumigatus

<400> 24556

```
Lys Leu Ser Ala Gly Ser Cys Arg Pro Arg Leu Val Glu Asp Glu Trp
1               5                   10                  15
Phe Val Ala Ile Ala Ala Ile Thr Asp Asp Tyr Glu Asn Ala Asn Glu
            20                  25                  30
Leu Ala Leu Arg Tyr Trp Leu Gly Cys Phe Gly Glu Gly Val Arg Ile
        35                  40                  45
Ser Ser Leu Leu Asp Asp Ala Asp Lys Pro Leu Ile Ile Ile Leu Gly
    50                  55                  60
Pro Arg Tyr Cys Pro His Arg Tyr Ile Arg Tyr Pro Gly Phe Pro Arg
65                  70                  75                  80
Arg Leu Pro Gln Ala Asp Pro Ser Pro Tyr Gln Arg Arg Cys Arg Arg
                85                  90                  95
Arg Arg His Asn Cys Ile Gly Ser Glu His Asn Lys Arg Val Ala Ala
            100                 105                 110
Ser Glu
```

<210> 24557
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24557

```
Met Leu Arg Glu Arg Gly Lys Gly Thr Tyr Thr Val Pro Phe Pro Ser
1               5                   10                  15
Pro Arg Arg Ile Asn Ala Val Ser Asn Ser Thr Ala Tyr Val Tyr Asp
            20                  25                  30
Val Met Glu Arg Phe Tyr Phe Arg Leu Gly Thr Leu Asp Glu His Ser
        35                  40                  45
Asp Val Leu Pro Gln Leu Ser Ala Gln Leu His Asp Leu Ile Lys Arg
    50                  55                  60
Met Val Leu Val Ala Cys
65                  70
```

<210> 24558
<211> 312
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (110),(150)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24558

```
Gly Tyr Val Thr Thr Met Ile Ala Arg Phe Pro Ala Ser Arg Pro Ala
1               5                  10                  15
Tyr Val Asp Asp Val Leu Phe Leu Thr Thr Lys Gly Ile Gly His Pro
            20                  25                  30
Thr Thr Val Ser Pro Ser Ser Tyr Val Thr Pro Tyr Thr Pro Leu Val
        35                  40                  45
Ser Asp Ala Gln Glu Ala Glu Thr Thr Leu Lys Ala Gly Glu Ile Val
    50                  55                  60
Lys Ile Gln Leu Gly Ala Gln Ile Asp Gly Phe Gly Thr Ile Val Cys
65                  70                  75                  80
Asp Met Val Val Val Ala Asp Lys Glu Ser Pro Lys Asp Val Val Thr
                85                  90                  95
Gly Arg Glu Ala Asp Leu Ile His Ala Thr His Tyr Ala Xaa Glu Leu
            100                 105                 110
Leu Leu Arg Leu Met Val Pro Pro Gly Leu Leu Ala Ser Gly Thr Glu
        115                 120                 125
Glu Glu Lys Lys Lys Ala Ala Ala Glu Lys Pro Pro Thr Gln Ser Gln
    130                 135                 140
Ile Ser Ala Leu Ile Xaa Lys Val Ala Lys Ala Tyr Asp Cys Asn Val
145                 150                 155                 160
Val Glu Asn Thr Thr Ser Trp Leu Ile Glu Arg Asn Glu Ile Glu Gly
                165                 170                 175
Gly Lys Lys Ile Ile Leu Ala Pro Gly Ser Gly Val Lys Gly Glu Gly
            180                 185                 190
Val Pro Asp Val Gly Glu Val Trp Gly Val Glu Val Gly Leu Ser Leu
        195                 200                 205
Gly Ser Gly Lys Val Lys Thr Leu Pro His Arg Ala Thr Leu His Arg
    210                 215                 220
Arg Thr Thr Thr Thr Tyr Ile Leu Lys Arg Pro Ser Ser Arg Gln Thr
225                 230                 235                 240
Leu Ser Glu Ile Val Lys Lys Phe Gly Thr Phe Pro Phe Ser Leu Arg
                245                 250                 255
Gln Leu Glu Asp Glu Lys Ser Ala Lys Val Gly Val Val Glu Cys Val
            260                 265                 270
Arg Gly Gly Val Leu Arg Gln Tyr Glu Pro Ala Gly Asp Ala Asp Asn
        275                 280                 285
Ala Pro Val Ser Arg Leu Leu Thr Thr Ile Gly Met Phe Ile Thr Cys
    290                 295                 300
Ser Thr Glu Tyr Ser Arg Phe Arg
305                 310
```

<210> 24559
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24559

```
Arg Gly Leu Ile Ala Ile Thr Lys Asn Gly Ile Thr Arg Leu Ala Ala
1               5                  10                  15
Pro Asn Pro Pro Asp Leu Ser Lys Phe Gln Thr Asp Lys Lys Ile Glu
            20                  25                  30
Asp Glu Glu Ile Leu Lys Ile Leu Glu Arg Pro Leu Ala Arg Asn Thr
        35                  40                  45
Gly Asn Lys Asn Lys Lys Lys Lys Lys Pro Thr Lys Asp Ser Lys Asp
    50                  55                  60
Glu Glu
```

65

<210> 24560
<211> 155
<212> PRT
<213> A.fumigatus

<400> 24560
Leu His Ala Ala Gly Val Tyr Leu Lys Asn Arg Ile Asn Arg Gly Trp
1 5 10 15
Ser Pro Val Glu Asp Ser Pro Leu Arg Ala Pro Ile Pro Glu Ala Glu
20 25 30
Lys Pro Gly Phe Arg Glu Arg Leu Ile Pro Ala Leu Ala Ser Thr Pro
35 40 45
Pro Asn Val Arg Ala Gln Leu Val Pro Leu Leu Gln Lys Ile Leu Gln
50 55 60
His Asp Phe Pro Glu Gln Trp Pro Gly Phe Leu Asp Ile Thr Leu Gln
65 70 75 80
Leu Leu Gly Thr Asn Asn Ala Asn Ser Val Tyr Ala Gly Leu Gln Cys
85 90 95
Leu Leu Ala Ile Cys Arg Val Tyr Arg Phe Lys Ala Gly Glu Lys Arg
100 105 110
Glu Glu Phe Asp Lys Ile Val Glu His Ser Phe Pro Gln Leu Leu Asn
115 120 125
Ile Gly Leu Lys Leu Gly Asp Glu Glu Ser Leu Glu Ala Ala Glu Met
130 135 140
Leu Arg Ile Val Val Gln Ser Tyr Lys Pro Cys
145 150 155

<210> 24561
<211> 127
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (103)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24561
Arg Pro Lys Phe Ala Phe Asn Phe Arg Asp Val Thr Ser Gly Ile Phe
1 5 10 15
Lys Asp Ile Pro Arg Asn Glu Leu Phe Ile Arg Val Gln Pro Asn Glu
20 25 30
Ser Val Tyr Ile Lys Met Asn Ser Lys Leu Pro Gly Leu Ser Met Gln
35 40 45
Thr Val Met Thr Glu Leu Asp Leu Thr Tyr Arg Arg Arg Phe Ser Asp
50 55 60
Leu Lys Ile Pro Glu Ala Tyr Glu Ser Leu Ile Leu Asp Ala Leu Lys
65 70 75 80
Gly Asp His Ser Asn Phe Val Arg Asp Asp Glu Leu Asp Ala Ser Trp
85 90 95
Lys Ile Phe Thr Pro Leu Xaa His Tyr Leu Asp Asp Asn Lys Glu Ile
100 105 110
Ile Pro Met Glu Tyr Pro Tyr Gly Met Cys His Asn Ile Leu Phe
115 120 125

<210> 24562
<211> 246
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (220),(246)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24562
Ser Ala Asp Val Phe Asp Cys Ser Asp Ile Glu His Ile Trp Gln Met
1 5 10 15
Ala Trp Arg Leu Gly Phe Tyr Arg Gly Gly Pro Val Phe Met Ser Ala
20 25 30
Ile Ser Gly Ile Tyr Ile Ala Leu Trp Asp Leu Lys Gly Arg Arg Leu
35 40 45
Gly Val Pro Val His Gln Leu Leu Gly Gly Lys Val Arg Asn Lys Leu
50 55 60
Ser Val Tyr Ala Trp Ile Gly Gly Asp Arg Pro Gly Asp Val Glu Ala
65 70 75 80
Ala Gly Lys Ala Arg Leu Ala Gln Gly Phe Lys Ala Ile Lys Met Asn
85 90 95
Ala Thr Glu Asp Ile Asn Trp Leu Asp Ser Pro Ser Val Leu Asp Ser
100 105 110
Cys Val Glu Arg Leu Lys Ala Val Lys Ala Leu Gly Leu Asp Ala Ala
115 120 125
Leu Asp Phe His Gly Arg Leu His Lys Pro Met Ala Lys Gln Leu Ala
130 135 140
Lys Ala Leu Glu Pro His Arg Pro Leu Phe Leu Glu Glu Pro Leu Leu
145 150 155 160
Ser Glu His Pro Glu Gly Ile Lys Gln Leu Ala Asp Gln Val Ser Cys
165 170 175
Pro Ile Ala Leu Gly Glu Arg Leu Tyr Asn Arg Trp Asp Val Lys Arg
180 185 190
Phe Leu Glu Asp Ala Ser Val Asp Ile Leu Gln Pro Asp Ile Ser His
195 200 205
Cys Gly Gly Ile Ser Glu Leu Arg Arg Ile Ala Xaa Met Ala Glu Thr
210 215 220
Tyr Asp Val Ala Ile Ala Pro His Leu Ser Leu Gly Pro Asp Cys Leu
225 230 235 240
Gly Gly Met His Ala Xaa
245

<210> 24563
<211> 93
<212> PRT
<213> A.fumigatus

<400> 24563
Pro Ser Ser Val Leu Ser Pro Gln Pro Tyr Trp Pro Ser Ser Ser Thr
1 5 10 15
Ile Leu Asn Asn Asn His Pro Gly Thr Asp Pro Glu Ile Phe Asp Pro
20 25 30
Pro Asp Leu Gly Pro Trp Cys Pro Ile Pro Ala Gly Asn Cys Arg Gly

```
        35                  40                  45
Asn Phe Gly Ile Met Glu Leu Pro Pro Pro Ser Leu Asn Leu Thr Lys
    50                  55                  60
Ile Arg Pro Gly Trp Asn Asn Asn Trp Asn Gly Pro Lys Phe Asn Pro
65                  70                  75                  80
Ile Ile Pro Leu Leu Cys Pro Lys Gly Ser Ile Phe Phe
                85                  90
```

<210> 24564
<211> 241
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (201)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24564

```
Val Trp Arg Ile Asn Arg Glu Arg Ala Val Asp Tyr Leu Asn Thr Arg
1               5                   10                  15
Asn Arg Ile Tyr Val Ile Asp Gly Tyr Ala Gly Trp Asp Glu Arg Tyr
            20                  25                  30
Arg Ile Ser Val Arg Val Val Cys Ala Arg Ala Tyr His Ala Leu Phe
        35                  40                  45
Met Arg Asn Met Leu Ile Arg Pro Ser Pro Glu Glu Leu Glu His Phe
    50                  55                  60
His Pro Asp Tyr Val Ile Tyr Asn Ala Gly Ser Phe Pro Ala Asn Arg
65                  70                  75                  80
Phe Thr Glu Gly Met Thr Ser Ala Thr Ser Val Ala Ile Asn Phe Ala
                85                  90                  95
Glu Lys Glu Met Val Ile Leu Gly Thr Glu Tyr Ala Gly Glu Met Lys
            100                 105                 110
Lys Gly Val Phe Thr Ile Leu Phe Tyr Glu Met Pro Val Lys His Asn
        115                 120                 125
Val Leu Thr Leu His Ser Ser Ala Asn Glu Gly Glu Asn Gly Asp Val
    130                 135                 140
Thr Val Phe Phe Gly Leu Ser Gly Thr Gly Lys Thr Thr Leu Ser Ala
145                 150                 155                 160
Asp Pro Lys Arg Ala Leu Ile Gly Asp Asp Glu His Cys Trp Thr Asp
                165                 170                 175
Arg Gly Val Phe Asn Ile Glu Gly Gly Cys Tyr Ala Lys Cys Ile Gly
            180                 185                 190
Leu Ser Ala Glu Lys Gly Pro Asp Xaa Phe Asn Ala Ile Arg Phe Gly
        195                 200                 205
Ser Val Leu Glu Asn Val Val Phe Glu Pro Ile Ser Arg Val Gly His
    210                 215                 220
Tyr Asp Asp Ser Pro Ser Leu Arg Thr Thr Ala Ala Pro Thr Pro Leu
225                 230                 235                 240
Ser
```

<210> 24565
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (27)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24565
Ile Ile Val Val Thr His Thr Ala Asp Arg Phe Glu Asp Asp Val Leu
1 5 10 15
Glu His Gly Ser Glu Ala Asp Gly Val Glu Xaa Ile Gly Ser Phe Leu
20 25 30
Gly Gly Glu Ala Asn Ala Leu Arg Val Ala Thr Thr Phe Asp Val Glu
35 40 45
Asp Ser Ala Val Ser Pro Ala Val Leu Ile Ile Thr Asn Gln Cys Thr
50 55 60
Leu Gly Val Ser Arg Gln Ser Cys Leu Ala Ser Ala Gly Gln Thr Glu
65 70 75 80
Glu His Ser His Ile Ala Val Leu Thr Leu Val Ser Arg Gly Val Gln
85 90 95
Gly Gln Asp Ile Val Leu His Arg His Phe Val Lys Glu Asn Gly Glu
100 105 110
Asn Thr Leu Leu His Leu Thr Gly Val Leu Gly Thr Gln Asp Asn His
115 120 125
Leu Leu Leu Gly Glu Val Asp Ser Tyr Arg Cys Ser
130 135 140

<210> 24566
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24566
Phe Pro Ile Ala Pro Pro Ser Asp Pro Ser Ser Pro Val Val Lys Thr
1 5 10 15
Ile Val Tyr Leu Glu Ala Gln Lys Thr Arg Leu Ile Glu Asp Asn Asp
20 25 30
Glu Pro Ala Pro Phe Arg Tyr Glu Ile Ala Ser Phe Pro Glu Leu His
35 40 45
Tyr Pro Glu Leu His Ser Ser Trp Lys Asn Arg Phe Asp Ile Ser His
50 55 60
Ser Ile Leu Asp Asn Val Asp His Ser Ser Thr Tyr Leu Asp Val Leu
65 70 75 80
Tyr Arg Thr Leu Val Trp Phe Thr Ile
85

<210> 24567
<211> 263
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (253)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24567

```
His Ile Ala Phe Asn Ile Arg Gln Arg Arg Pro Phe Phe Tyr Leu Ser
1               5                  10                  15
Gly Cys Pro Leu Pro Asp Ser Cys Leu Val Tyr Asp Leu Ser Glu Asp
            20                  25                  30
Gln Leu Thr Leu Phe Ile Pro Pro Val Asp Pro Glu Asp Val Ile Trp
        35                  40                  45
Ser Gly Leu Pro Met Ser Thr Glu Glu Ala Gln Asn Gln Tyr Asp Val
    50                  55                  60
Asp Arg Val Leu Val Thr Thr Glu Leu Asn Ser Thr Leu Ala Ser Ile
65                  70                  75                  80
Val Ser Ser His Gly Gly Lys Ala Ile Ala Phe Thr Ile Ala Asp Gln
                85                  90                  95
Val Ser Glu Ser Thr Gln Phe His Gly Phe Ser Glu Val Asn His Ser
            100                 105                 110
Val Leu Lys Gly Val Ile Glu Gln Ser Arg Val Val Lys Asp Glu Tyr
        115                 120                 125
Glu Val Ala Leu Leu Arg Lys Ala Asn Asp Ile Ser Ala Lys Ala His
    130                 135                 140
Ile Ala Ala Ile Lys Ala Ser Gln Thr Ala Val Asn Glu Arg Glu Ile
145                 150                 155                 160
Glu Gly Ala Phe Ile Ala Thr Cys Ile Ala Asn Gly Ala Arg Glu Gln
                165                 170                 175
Ser Tyr His Pro Ile Val Ala Cys Gly Glu Asn Gly Ala Thr Leu His
            180                 185                 190
Tyr Gly Lys Asn Asp Asp Thr Leu Ile Asp Pro Val Thr Asn Gln Lys
        195                 200                 205
Lys Arg Asn Val Leu Ile Asp Ala Gly Gly Glu Tyr Arg Thr Tyr Cys
    210                 215                 220
Ala Asp Ile Thr Arg Val Ile Pro Val Gly Gly Glu Ile His Trp Gln
225                 230                 235                 240
Lys Arg Gly Arg Thr Thr Lys Leu Ala Arg Gln Met Xaa Asn Arg Met
                245                 250                 255
Tyr Trp Gln Ala Leu Gly Ser
            260
```

<210> 24568
<211> 137
<212> PRT
<213> A.fumigatus

<400> 24568

```
Lys Thr Phe Thr Pro Val Asn Glu Val Ile Pro Lys Thr Leu Met Phe
1               5                  10                  15
Pro Pro Trp Asn Asn Lys Gly Ile Ser Pro Ser Trp Gly Gln Arg Gln
            20                  25                  30
Thr Val Tyr Ser Arg Asp Ser Pro Ala Gln Lys Lys Glu Phe Asn Arg
        35                  40                  45
Lys Thr Lys Ile Gly Ala Arg Lys Arg Ile Arg Lys Ser Arg Leu Leu
    50                  55                  60
Lys Asp Tyr Asp Pro Asn Lys Val Pro Asp Pro Glu Arg Trp Leu Pro
65                  70                  75                  80
Phe Arg Asp Arg Ser Thr Tyr Arg Pro Lys Gly Arg Lys Gly Lys Gln
                85                  90                  95
Arg Ala Val Lys Arg Met Gln Gly Gly Val Val Thr Arg Lys Ala Glu
            100                 105                 110
Asp Thr Leu Ala Pro Thr Gln Pro Lys Ala Gln Gly Gly Gly Ala Ser
```

```
        115                 120                 125
Ser Lys Lys Lys Lys Lys Gly Lys Arg
    130                 135

<210> 24569
<211> 161
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (159),(160)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24569
Leu Thr His Leu Gln Ser Asp Glu Thr Lys Ile Cys Val Val Met Val
1               5                  10                  15
Gly Leu Pro Ala Arg Gly Lys Ser Leu Ile Ala Gly Lys Gly Arg Tyr
            20                  25                  30
Thr Leu Ile Arg Leu Asn Ile His Asp Arg Gly Leu Thr Ile Leu Tyr
        35                  40                  45
Leu Ala Met Arg Tyr Leu Ala Trp Val Gly Ile Pro Ala Lys Val Phe
    50                  55                  60
Asn Val Gly Thr Tyr Arg Arg Gln Gly Thr Pro Gln Pro Thr Ala Thr
65                  70                  75                  80
Phe Phe Asp Pro His Asn Thr Glu Gly Glu Arg Met Arg Arg Ala Ala
                85                  90                  95
Ala Glu Ala Ala Met Ser Asp Met Leu Asn Trp Phe Lys Ala Gly Lys
            100                 105                 110
Gly Val Val Ala Ile Leu Asp Ala Thr Asn Ser Thr Lys Ser Arg Arg
        115                 120                 125
Gln Trp Ile Tyr Glu Thr Cys Arg Asp Ala Asp Ile Glu Thr Leu Phe
    130                 135                 140
Val Glu Ser Ser Pro Gly Ala Glu Arg Gln Ser Val Gln Lys Xaa Xaa
145                 150                 155                 160
Pro


<210> 24570
<211> 433
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23),(36),(37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24570
Asn Ser Asn Glu Gln Leu Pro Ser Asn Pro Asp Ala Ser Asn Ser Gly
1               5                  10                  15
Gly Ser Leu Val Pro Pro Xaa Trp Val Asn Thr Pro Ala Lys Pro Met
            20                  25                  30
Val Arg Ser Xaa Xaa Glu Val His Leu Asp Asp Val Val Arg His Ser
        35                  40                  45
Leu Phe Asp Gln Tyr Ile Leu Phe Thr Gly Gly Phe Gly Phe Ile Gly
```

```
    50                  55                  60
Ser His Thr Thr Leu Glu Leu Leu Lys Thr Asn Tyr Asn Val Ile Val
65                  70                  75                  80
Ile Asp Asn Ile Ser Asn Ser Phe Gln Ile Val Phe Asp Arg Ile Lys
                85                  90                  95
Leu Leu Ala Ser Gln Tyr His Glu Arg Gln Gly Thr Lys Met Pro Ser
            100                 105                 110
Leu His Leu His Ala His Asp Tyr Arg Asp Thr Ala Ala Leu Lys Ala
        115                 120                 125
Leu Leu Glu Gln His Gln Thr Gln Thr Arg Trp Gly Thr Thr Lys Ser
    130                 135                 140
Lys Ile Ser Gly Val Ile His Phe Ala Ala Tyr Lys Ala Val Glu Glu
145                 150                 155                 160
Ser Ile Arg Asn Pro Leu Lys Tyr Tyr Ala Asn Asn Val Ser Gly Leu
                165                 170                 175
Ile Asp Phe Ala Thr Thr Leu Gly Asp Tyr Gly Ile Lys Thr Phe Ile
            180                 185                 190
Phe Ser Ser Ser Ala Thr Val Tyr Gly Thr Leu Ala Thr Ser Gly Leu
        195                 200                 205
Pro Leu Lys Glu Glu Leu Cys Thr His Lys Glu Glu Ile Tyr Thr Asp
    210                 215                 220
His Asp Gly Ser Glu Arg Ile Val Gln Pro Gly Cys Thr Gly Ile Thr
225                 230                 235                 240
Asn Pro Tyr Gly Arg Thr Lys Trp Ile Cys Glu Ala Ile Leu Ala Asp
                245                 250                 255
Leu Ala Ala Ser Asp Pro Glu Trp Thr Ile Val Ala Leu Arg Tyr Phe
            260                 265                 270
Asn Pro Ile Gly Cys Asp Glu Ser Gly Leu Leu Gly Glu Asp Pro Arg
        275                 280                 285
Gln Thr Pro Thr Asn Leu Leu Pro Val Val Val Lys Val Met Thr Gly
    290                 295                 300
Glu Tyr Arg Glu Leu Gln Met Phe Gly Thr Asp Trp Asn Thr Glu Asp
305                 310                 315                 320
Gly Thr Ala Val Arg Asp Phe Ile His Val Thr Asp Leu Ala Arg Gly
                325                 330                 335
His Ile Ala Ala Leu Ser Ala Ala Asn Glu Gly Lys Leu Ala Glu Asn
            340                 345                 350
Phe Arg Thr Phe Asn Met Gly Thr Gly Arg Gly His Ser Val Lys Glu
        355                 360                 365
Val Val Glu Thr Met Glu Glu Val Ser Ser Lys His Ile Pro Arg Arg
    370                 375                 380
Ala Ala Asp Arg Arg Ala Gly Asp Val Gly Ser Cys Val Ala Val Ala
385                 390                 395                 400
Thr Arg Ser Gln Gln Glu Leu Asn Trp Lys Thr Glu Lys Ser Leu Lys
                405                 410                 415
Asp Ala Cys Val Ser Leu Cys Asn Phe Leu Gly Ser Arg Gly Leu Ser
            420                 425                 430
Thr
```

<210> 24571
<211> 178
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (2),(18)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24571
Arg Xaa Val Phe His Gly Ala Thr Lys Pro Phe Ser Pro Ser Arg Ile
1 5 10 15
Arg Xaa Met Glu Thr Gly Gly Cys Pro His Ala Ala Phe Arg Glu Asp
20 25 30
Ile Ser Ala Asn Leu Leu Ala Leu Gln Thr Leu Gln Lys Gln Phe Gln
35 40 45
Thr Asp Leu Leu Leu Ile Glu Ser Gly Gly Asp Asn Leu Ala Ala Asn
50 55 60
Tyr Ser Arg Glu Leu Ala Asp Phe Ile Ile Tyr Val Ile Asp Val Ala
65 70 75 80
Gly Gly Asp Lys Val Pro Arg Lys Gly Gly Pro Gly Ile Thr Gly Ser
85 90 95
Asp Leu Leu Val Val Asn Lys Ile Asp Leu Ala Glu Ala Val Gly Ala
100 105 110
Asp Leu Lys Val Met Glu Arg Asp Ala Ala Lys Met Arg Glu Gly Gly
115 120 125
Pro Thr Val Phe Ala Val Val Lys Gln Gly Lys Gly Val Asp His Ile
130 135 140
Val Asn Leu Ile Leu Ser Ala Trp Lys Ala Ser Gly Gly Tyr Glu Val
145 150 155 160
Ser Leu Glu Arg Trp Lys Asn Gly Ala Pro Lys Asn Ser Gly Ser Val
165 170 175
Asp Glu

<210> 24572
<211> 67
<212> PRT
<213> A.fumigatus

<400> 24572
Ser Thr Pro Phe Pro Cys Leu Thr Thr Ala Asn Thr Val Gly Pro Pro
1 5 10 15
Ser Leu Ile Phe Ala Ala Ser Arg Ser Ile Thr Phe Lys Ser Ala Pro
20 25 30
Thr Ala Ser Ala Arg Ser Ile Leu Phe Thr Thr Ser Arg Ser Glu Pro
35 40 45
Val Ile Pro Gly Pro Pro Leu Arg Gly Thr Leu Ser Pro Pro Ala Thr
50 55 60
Ser Ile Thr
65

<210> 24573
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24573
Arg Val Leu Pro Thr Leu His Val Cys Ser Val Ala Tyr Trp Leu His
1 5 10 15
Arg Pro His Leu Cys Pro Ser Leu Ala Ala Asn Leu Asp Ser Trp Ala

```
            20                  25                  30
Leu Cys Leu Gln Leu Asn Leu Asn Leu Pro Arg Phe Glu Leu Gln Thr
        35                  40                  45
Met Gly Gly Ile Lys Ser Phe Lys Glu Pro Arg Thr Pro Phe Ser Tyr
    50                  55                  60
Trp Lys Gln Ile Lys Val
65                  70
```

<210> 24574
<211> 311
<212> PRT
<213> A.fumigatus

<400> 24574

```
Gly Thr Met Val Val Ala Ala Ser His Leu Ala Leu Ile Asp Glu Glu
1               5                   10                  15
Ile His Gln Leu Met His Ala Ala Arg Cys Gly Asp Ile Val Gln Leu
            20                  25                  30
Arg Ser Leu Leu Tyr Gly Val Ser Pro Asp Ile Arg Asp Ser Thr Gly
        35                  40                  45
Arg Thr Ala Phe Ser Trp Ala Ala Ser Tyr Asp Leu Thr Gln Ser Pro
    50                  55                  60
Glu Thr Tyr Asn Asn Cys Asn Leu Val Leu Gln Phe Leu Leu Asp Arg
65                  70                  75                  80
Gly Ala Asn Pro Asp Leu Ala Asp Tyr His Gly Glu Thr Pro Leu His
                85                  90                  95
Trp Ala Val Lys Gly Gly Asp Tyr Arg Met Val Asp Leu Leu Leu Gln
            100                 105                 110
Lys Asn Val Glu Ser Asp Leu Pro Asp Ser Arg Ser Arg Thr Pro Leu
        115                 120                 125
Ser Arg Ala Ala Glu Arg Gly Tyr Asp Arg Val Val Glu Val Leu Leu
    130                 135                 140
Thr Lys Gly Lys Ala Asp Ala Asp Tyr Lys Asp Ala Arg Gly Arg Thr
145                 150                 155                 160
Pro Leu Ser Trp Ala Ala Glu Asn Trp His Leu Glu Thr Ala Thr Ile
                165                 170                 175
Leu Val Asn His Gly Ala Ser Val Asp Ile His Asp Arg Glu Gly Gln
            180                 185                 190
Leu Pro Leu Trp Trp Phe Ile Ser Asn Thr Ile Lys Arg Thr Ala Met
        195                 200                 205
Glu Gln Gln Tyr Gln Pro Gly Lys Gly Asp Tyr Leu Gln Lys Trp Leu
    210                 215                 220
Thr Leu Leu Gly Pro Lys His Gly Val Glu Pro Met Thr Lys Ala Arg
225                 230                 235                 240
Arg Thr Phe Leu Ser Trp Ala Cys Glu Lys Gly Asp Gln Glu Leu Val
                245                 250                 255
Lys His Phe Leu Gln Thr Ala Trp Ala Asp Pro Asn Ser Ile Asp Arg
            260                 265                 270
Tyr Arg Lys Thr Pro Leu Ile Tyr Ala Leu Glu Trp Asn His Tyr Glu
        275                 280                 285
Ile Ala Asp Met Leu Ile Ser Gly Val Lys Thr Gly Thr Leu Phe Gln
    290                 295                 300
Arg Tyr Ser Pro Ser Gly Pro
305                 310
```

<210> 24575

<211> 386
<212> PRT
<213> A.fumigatus

<400> 24575

```
His Arg Arg Glu Asn Asp Asp Val Glu Ala Arg Gln Glu Ser Asn Pro
1               5                  10                  15
Ser Glu Ser Ser Pro Ala Pro Ser Glu Pro Arg Arg Ile Phe Ser Pro
            20                  25                  30
Lys Ser Trp Thr Asn Asp Asn Ala Lys Val Pro Phe Leu Gly His Ser
        35                  40                  45
Arg Val Lys Lys Leu Arg Glu Glu Thr Val Asp Leu Ser Ala Val Leu
    50                  55                  60
Arg Gly Glu Glu Thr Pro Arg His Ile Arg Arg Tyr Tyr Gly Gln Ser
65                  70                  75                  80
Ser Pro Ala Glu Lys Ser Ala Asn Gly Asp Ser Pro Gln Gln Gln Arg
                85                  90                  95
Ser Asn Pro Asp Phe Pro Glu Glu Asn Ala Glu Asp His Gly Leu Glu
            100                 105                 110
Asp Asp Gln Gly Ser Arg Ile Tyr Leu Asp Ser Ser Pro Asn Arg Ala
        115                 120                 125
Ser Asp Asp Asp Thr Phe Gln Ile Asp Pro Thr Thr Arg His Glu Ser
    130                 135                 140
Glu Met Gln Arg Ala Asp Gln Met Ala Glu Glu Ile Glu Asn Glu His
145                 150                 155                 160
Ile Pro Ala Thr Ala Leu Ala Asp Lys Arg Ser Val Tyr Glu Glu Asn
                165                 170                 175
Ser Thr Pro Pro Ala Gln Asn Arg Gln Phe Gly Gly Asp Gly Gln Ala
            180                 185                 190
Ser Thr Trp Phe Gln Lys Ile Thr Ser Leu Thr Pro Gly Trp Leu Lys
        195                 200                 205
Ala Pro Val Arg Lys Ser Phe Ala Pro Pro Ser Pro Gly Tyr Gly Glu
    210                 215                 220
Gly Ser Glu Glu Glu Pro Asp Val Arg Ser Ala Asn Ala Gln Thr Leu
225                 230                 235                 240
Leu Asp Asn Gln Leu Tyr Pro Glu Glu Thr Asp Glu Thr Ser Arg Gln
                245                 250                 255
Gly Leu Gln Ser Pro Glu Gln Asn Asn Thr Gln Pro Asp Ser Pro Thr
            260                 265                 270
Ser Ser Ala Ala Arg Pro Val Glu Asp Val Arg Val Glu Thr Tyr Glu
        275                 280                 285
Pro His Phe Pro Leu Ala Val Ser Gly Tyr Phe Thr Asp Asn His Tyr
    290                 295                 300
Val Leu Leu Arg Arg Leu Tyr Arg Leu Ala Lys Arg His Pro Glu Arg
305                 310                 315                 320
Phe Pro Tyr Tyr Pro Ala Pro Gly Arg Ser Asp Ile Ile Gly Asp Trp
                325                 330                 335
Ile Trp Thr Ser Asp Gly Glu His Gly Val Arg Val Thr Glu Thr Gln
            340                 345                 350
Phe Ala Ile Ile Asp Arg Phe Val Gln Glu Leu Ala Arg Gly Asp Leu
        355                 360                 365
Gln Ala Gly Gly Thr Ala Gln Ile Val Phe Thr Thr Lys Ala Arg Gly
    370                 375                 380
Ser Gly
385
```

<210> 24576
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24576
Leu Ser Glu Val Asp Glu Gly Gly Cys Val Ser Pro Arg Phe Asp Val
1 5 10 15
Leu His Lys Ser Leu Ala Glu Tyr Lys Val Leu Glu Arg Gly Pro Lys
20 25 30
Leu Lys Ser Gly Asn Ala Ser Gln Pro Ser Ile Thr Phe Phe Asp Pro
35 40 45
Ser Ser Phe Ser Thr Gly Thr Gly Ile Val Ala Val Ile Gln Asp Thr
50 55 60
Phe Lys Lys Arg His Gln Thr Pro Arg Cys Gln Arg Ser Thr His Leu
65 70 75 80

<210> 24577
<211> 103
<212> PRT
<213> A.fumigatus

<400> 24577
Ser Ser Thr Ile Tyr Tyr Gly Val Phe Thr Ser Trp Ser Cys Ser Ala
1 5 10 15
Asn Leu Ile Pro Leu Trp Arg Lys Pro Leu Val Phe Gln Lys Leu Cys
20 25 30
Cys Gly Arg Ser Val Ser Trp Val Asn Leu Tyr Ile Ile Phe Lys Thr
35 40 45
Asn Ser Leu Ser Ser Leu Asp Ile Ser Ser Ser Glu Ile Trp Glu Lys
50 55 60
Ser Phe Leu Leu Ser Gly Glu Ile Pro Cys Met Ile Tyr Val Lys Thr
65 70 75 80
Ser Asn Phe Ser Arg Gly His Ile Ser Arg Tyr Val Lys Gly Lys Gly
85 90 95
Pro Lys Asn Ser His Tyr Leu
100

<210> 24578
<211> 121
<212> PRT
<213> A.fumigatus

<400> 24578
Thr Thr Pro Cys Gln Val Gln Pro Ser Asn Ser Ser Thr Gln Pro Val
1 5 10 15
Ala Thr Phe Gln Met His Ser Trp Ile Asp Ile Pro Leu Arg Asp Gly
20 25 30
Lys Asp Ala Asp Glu Trp Glu Leu Thr Glu Ser Lys Ala Ile Ala Asn
35 40 45
Ile Asp Gln Trp Tyr Gln Glu Gly Arg Leu Leu Phe Pro Arg Asp Ser
50 55 60
Leu Gln Glu Val Arg Asp Gln Leu Arg Lys Pro Leu Lys Lys Gly Asp
65 70 75 80
Ser Ile Tyr Val Lys Gly Phe Asp Gly Ser Met Tyr Glu Trp Pro Val
85 90 95

```
Lys Thr Gly Asn Ile Lys Thr His Trp Glu Ala Asp Asn Asn Thr Gly
            100                 105                 110
Glu Glu Lys Gln Val Asp Trp Met Leu
        115                 120

<210> 24579
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24579
Asn Ser Ala Gln Leu Lys Thr Arg Ile Ile Thr Ser Leu Arg Arg Leu
1               5                   10                  15
Pro Asp Arg Arg Tyr Asn Asn Pro Ile Tyr Ala Arg Pro Thr Arg Ile
            20                  25                  30
Ala Ser Tyr Thr Val Val Asp Ser Val Gly Leu Tyr Ser Val Ser Leu
        35                  40                  45
Pro Asp Glu Val Ala His Ser Ile Lys Gln Pro His Lys Asp Pro Thr
    50                  55                  60
Pro His Asn Ile Tyr Val Ala Gly Phe Lys
65                  70

<210> 24580
<211> 331
<212> PRT
<213> A.fumigatus

<400> 24580
Tyr Pro Thr Thr Gly Gly Ser Val Arg Trp His Ser Gly Gly Asp Gly
1               5                   10                  15
Ser Ala Gly Ser Ala Thr Asn Asn Glu Gly Glu Arg Ile Ser Asp Leu
            20                  25                  30
Leu Arg Arg Arg Asn Cys Gln Leu Asp Lys Val Arg Pro Cys Pro Ser
        35                  40                  45
Pro Leu Val Phe Leu Leu Thr Arg Cys Ser Glu Glu Gly Ala Arg Phe
    50                  55                  60
Pro Lys Ser Met Cys Ser Ser Gly Val Trp Ala Gly Ala Ile Pro Ile
65                  70                  75                  80
Glu Lys Ala Trp Asp Leu Arg Asp Ile His Asp Ser Asn Val Thr Leu
                85                  90                  95
Lys Ser Glu Leu Glu Arg His Gly Phe Leu Gly Gln Leu Glu Cys Ser
            100                 105                 110
His Thr Ala Tyr Pro Leu Ala Ala His Phe Glu Leu His Ile Glu Gln
        115                 120                 125
Gly Pro Ile Leu Gln Glu Thr Gly Arg Ser Ile Gly Val Val Gln Gly
    130                 135                 140
Ala Gln Gly Tyr Arg Trp Leu Thr Phe Thr Val Lys Gly Arg Asp Thr
145                 150                 155                 160
His Thr Gly Thr Thr Pro Leu Ser Ala Arg Gln Asp Pro Leu Leu Ala
                165                 170                 175
Ala Ser Arg Met Ile Ala Ala Ser Asn Asp Ile Ala Arg Lys His Asn
            180                 185                 190
Ala Leu Ala Ser Thr Gly Ile Phe Glu Ile Pro Ser Asn Ala Ser Thr
        195                 200                 205
Asn Thr Val Ala Ser Glu Val Ser Phe Thr Leu Asp Ile Arg Gln Pro
    210                 215                 220
```

```
Gln Asp Gly Val Val His Thr Val Gln Glu Glu Cys Leu Gln Ala Phe
225                 230                 235                 240
Ser Ala Ile Ala Ala Gln Asp Gly Lys Gly Val Thr Phe Asp Trp Thr
                245                 250                 255
Leu Asp Thr Asp Ser Pro Ala Val Lys Phe Asp Gln Gly Cys Leu Glu
            260                 265                 270
Ser Ile Gln Ala Ala Ala Asn His Leu Val Gly Pro Asp Gln Trp Met
        275                 280                 285
Asn Ile Ser Ser Gly Ala Gly His Asp Ser Val Tyr Thr Ser His His
    290                 295                 300
Cys Pro Thr Ala Met Ile Phe Val Pro Cys His Asp Arg Val Ser His
305                 310                 315                 320
His Pro Thr Glu Tyr Leu Cys Pro Glu His Trp
                325                 330
```

<210> 24581
<211> 114
<212> PRT
<213> A.fumigatus

<400> 24581

```
Arg Leu Glu Leu Ile Ile Asn Arg Asp Pro Thr Asp Thr Gly Met Ala
1               5                   10                  15
Arg Leu Thr Leu Asp Asp Asn Asp Ala Ser Val Arg Arg Trp Phe Ala
            20                  25                  30
Ala Glu Val Asp Lys Leu Gly Cys Ser Leu Ser Ile Asp Gln Met Gly
        35                  40                  45
Asn Met Phe Ala Arg Gln Gln Gly Lys Leu Gln Thr Ser Ala Pro Met
    50                  55                  60
Val Ala Met Gly Ser His Leu Asp Thr Gln Pro Arg Gly Gly Arg Tyr
65                  70                  75                  80
Asp Gly Ile Leu Gly Val Met Ala Ala Leu Glu Val Leu Arg Thr Met
                85                  90                  95
Lys Glu Asn Gly Tyr Gln Thr Tyr Tyr Asp Val Gly Ile Val Asn Trp
            100                 105                 110
Thr Lys
```

<210> 24582
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24582

```
Asp Gln Ile Trp Lys Gly Tyr Gly Asn Gln Ala Val Val Val Ser Val
1               5                   10                  15
Asp Pro Lys Arg Val Tyr Val Thr Ser Pro Asp Asp Thr Glu His His
            20                  25                  30
Thr Ile Lys Thr Lys Tyr Pro Tyr Ala Ser Gly Gln Ser Tyr Cys Trp
        35                  40                  45
Tyr Gln Cys Thr Ile Lys Gly Gly Arg Glu Ser Arg Asp Ile Asp Val
    50                  55                  60
Arg Gln Leu Val Lys Ala Val Glu Ala Met Gly Ala Gly Glu Ile Leu
65                  70                  75                  80
Leu Asn Cys Ile Asp Lys Asp Gly Ser Asn Ser Gly Phe Asp Leu Glu
                85                  90                  95
```

```
Leu Ile Asn Asp Val Lys Ala Ala Ser Lys Ile Pro Val Ile Ala Ser
            100                 105                 110
Ser Gly Ala Gly Val Pro Lys His Phe Glu Asp Val Phe Arg Tyr Thr
        115                 120                 125
Thr Thr Asp Ala Ala Leu Gly Ala Gly Met Val
    130                 135
```

<210> 24583
<211> 92
<212> PRT
<213> A.fumigatus

<400> 24583

```
Ile Ala Cys Pro Arg Ile Ser Tyr Leu Pro Ser Leu Leu Pro Arg Leu
1               5                   10                  15
Arg Ala Phe Phe Ser Pro Ser Leu Ile Glu Pro Asn Ser Gln Pro His
            20                  25                  30
Glu Gly Trp Phe Ser Phe Glu Gly Val Pro Leu Lys Trp His Leu Pro
        35                  40                  45
Val Gly Leu Leu Tyr Asp Leu Tyr Ala Gly Ala Asp Pro Ala Ser Lys
    50                  55                  60
Gly Thr Arg Val Asp Glu Thr Asp His Pro Thr Ser Ser Val Phe Thr
65                  70                  75                  80
Thr Gly Leu Glu Gly Ser Asp Ala Gly Ala Ile Ala
                85                  90
```

<210> 24584
<211> 252
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24584

```
Arg Arg Met Leu Lys Pro Leu Ser Thr Thr Xaa Gly Pro Lys Lys Arg
1               5                   10                  15
Asn Ser Ser Gly Ser Ser Ser Gly Lys Arg Gln Pro Leu Gln Arg Asn
            20                  25                  30
Lys Arg Thr Gly Asn Lys Arg Ser Cys Gly Ser Ser Trp Asn Ala Cys
        35                  40                  45
Ser Pro Ser Pro Lys Leu Thr Phe Thr Pro His Gln Xaa Thr Ala Pro
    50                  55                  60
Ser Lys Ala Lys Ser Pro Pro Pro Pro Val Lys Ala Pro Gly Tyr Pro
65                  70                  75                  80
Gly Pro Gly Ile Ala Ser Pro Gln Met Ser Pro His Phe Ala Pro Gly
                85                  90                  95
Val Ala Gly Gln Gln His Gly Ile Pro Leu Ser His Ser Pro Ala Pro
            100                 105                 110
Tyr Gly Gln Tyr Val Ala Pro Pro Ser Gly Val Ser Tyr Met Gln Gly
        115                 120                 125
Gln Pro Phe Gln Gln Gly Ala Ala Ala Pro Leu Ser Glu Gly Tyr Asn
    130                 135                 140
Pro Met Ala Tyr Pro Ala Pro Thr Ser Ile Ser Pro Pro Pro Ser Gln
```

```
145                 150                 155                 160
Gln Tyr Tyr Ser Ser Thr Pro Ala Pro Tyr Ser Gly Tyr Ser Asn Pro
                165                 170                 175
Ala Pro Pro Asn Ala Pro Ser Gln Phe Met Pro Gln Gly Tyr Val Pro
            180                 185                 190
Pro Pro Pro Pro Pro Arg Pro Gln Gln Pro Ser Tyr Pro Pro Ser Thr
        195                 200                 205
Gly Pro Tyr Pro Ser Gly Pro Gly Gly Tyr Ala Gln Ser Arg Pro Tyr
    210                 215                 220
Gly Thr Ser Gln His His Lys Thr Pro Ser Gln Ser Gln Ser Ser Ser
225                 230                 235                 240
Ser Thr Asp Pro Trp Ala Gly Leu Asn Ala Trp Lys
                245                 250
```

<210> 24585
<211> 81
<212> PRT
<213> A.fumigatus

<400> 24585

```
Gln Ala Pro Gly Lys Tyr Val Tyr Pro Pro His Pro Phe Leu Arg Leu
1               5                   10                  15
Asp Pro Asn Tyr Pro Arg Gln Gly Leu Thr Lys Gly Leu Met Glu Gly
            20                  25                  30
Ile Ala Asp Arg Pro Ser Lys Ser Val Gln Gly Tyr Tyr Gly Val Leu
        35                  40                  45
Ile Thr Ser Glu Gly Leu Asp Tyr Ser Val Val Val Asn His Thr Ile
    50                  55                  60
Lys Ser Ala Thr Pro Arg Gln Ile Tyr Thr Ala Leu Gln Arg Ile Asp
65                  70                  75                  80
His
```

<210> 24586
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24586

```
Gln Gly Gly Gln Leu Asn Tyr Leu Thr Lys Tyr Leu Glu Leu Leu Asp
1               5                   10                  15
Thr Val Phe Leu Phe Leu Lys Lys Lys Pro Leu Thr Phe Leu His Thr
            20                  25                  30
Tyr His His Gly Ala Thr Ala Leu Leu Cys Tyr Thr Gln Leu Ile Gly
        35                  40                  45
Leu Thr Ala Val Gln Trp Val Val Ile Asp Ile Asn Leu Leu Val His
    50                  55                  60
Val Val Met Tyr Trp Tyr Tyr Phe Gln Ser Ala Arg Gly Ile Arg Ile
65                  70                  75                  80
Trp Trp Lys Glu Trp Ile Thr Arg Leu Gln Ile Ile Gln Phe Val Ile
                85                  90                  95
Asp Leu Gly Thr Tyr Ser Glu Asn Thr Pro Leu Ser Arg Ala Cys
            100                 105                 110
```

<210> 24587
<211> 115

<212> PRT
<213> A.fumigatus

<400> 24587
Thr Ser Gly Phe Val Tyr Phe Ala Ser Tyr Thr Tyr Phe Ser Ser Thr
1 5 10 15
Tyr Phe Pro Trp Ala Pro Asn Met Gly Lys Cys Ala Gly Glu Glu Phe
20 25 30
Ala Ala Phe Ser Gly Ile Ala Ile Ile Ser Ser Tyr Leu Phe Leu Phe
35 40 45
Ile Ser Phe Tyr Ile Ala Thr Tyr Lys Lys Thr Ala Lys Thr Gly Arg
50 55 60
Pro Arg Arg Asn Thr Gly Lys Gln Ser Leu Val Asp Met Lys Asn Phe
65 70 75 80
Glu Val Pro Ser Val Thr Pro Ala Ala Asn Ser Lys Ala Thr Ser Asn
85 90 95
Gly Ala Ala Val Ala Ser Gly Arg Ala Asn Gly Pro Val Thr Arg Ser
100 105 110
Arg Lys Ala
115

<210> 24588
<211> 181
<212> PRT
<213> A.fumigatus

<400> 24588
Arg Gln Leu Ser Lys Leu Leu Phe Ser Phe Asp Met Ala Ala Pro Gly
1 5 10 15
Gly Pro Ser Pro Gln Gln Ile Ala Ala Met Gln Gln Gln Phe Ala Ala
20 25 30
Glu Ala Ala Arg Arg Gly Leu Thr Pro Glu Glu Phe Ala Arg Gln Gln
35 40 45
Arg Glu Gln Leu Asn Ala Glu Ala Ala Lys His Gly Met Thr Thr Glu
50 55 60
Gln Tyr Val His Gln Leu Arg Met Arg Ala Met Ala Ala His Gln Gln
65 70 75 80
Gln Met Ala Gln Gln Gln Ala Gln Ala Ala Gln Gln Gln Gly Gln Ala
85 90 95
Gly Pro Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gly Gln Ser Gly
100 105 110
Gln Pro Ser Pro Pro Gln Gln Gln Met Gln Gln Val Pro Val Asn Pro
115 120 125
Ser Asn Pro Pro Asp Pro Arg Ala Ile Ala Val Ala Gln Phe Leu Arg
130 135 140
Ser Gln Asn Leu Lys Ser Arg Thr Cys Ile Leu Asp Gly Gln Arg Lys
145 150 155 160
Asp Met Phe Lys Gly Thr Phe Ser Pro Ile Leu Leu Thr Ser Leu Arg
165 170 175
Leu Ser Thr Asp Glu
180

<210> 24589
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (55),(60)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24589
Arg Val Ser Asp Ser Val Leu Met Ser Ser Ile Val Lys Arg Ala Ile
1 5 10 15
Arg Ala Leu Glu Ser Pro Ala Tyr Ala Lys Ala Ala Ala Lys Lys Asn
20 25 30
Ser Leu Leu Pro Pro Val Thr Asp Arg Ala Ser Ala Glu Asn Val Phe
35 40 45
Lys Leu Ser Leu Phe Pro Xaa Leu Pro Cys Ala Xaa Pro Lys Ser Thr
50 55 60
Arg Met Leu Ala Thr Thr Met Pro Asn Gln Arg Pro Ala
65 70 75

<210> 24590
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24590
Ile Thr His Thr Pro Ser His Cys His Tyr Ile Tyr Cys Tyr Phe Tyr
1 5 10 15
Ser Pro Leu Ser Leu Ser Leu Leu Gln Pro Pro Leu Ser Ser Cys Ala
20 25 30
Ser Tyr Phe Ser Ser Ser Leu His Thr Phe Pro Leu Thr Val Gln Asn
35 40 45
Asn Ser Leu Leu Ser Arg Gln Phe Thr Ser Pro Thr Thr Asn Met Ala
50 55 60
Ser Pro Glu Lys Ala Lys Pro Glu Gly Ile Leu Gly Leu Ser Ala Ala
65 70 75 80
Glu Ala Lys Ile Leu Ile Leu Gly Phe Leu Cys Ile Thr Asp Gln Tyr
85 90 95
Lys Val His Thr Arg Pro
100

<210> 24591
<211> 131
<212> PRT
<213> A.fumigatus

<400> 24591
Ile Asp Tyr Glu Lys Leu Ala Ser Lys Gly Gly Tyr Thr Ala Gly Ser
1 5 10 15
Ala Asn Val Met Phe Asn Lys Ala Lys Arg Lys Leu Thr Glu Leu Asn
20 25 30
Pro Asp Asn Ser Thr Glu Asn Gly Ser Ser Ala Ala Gly Glu Ala Ser
35 40 45
Ser Ser Lys Ser Ala Thr Ala Thr Pro Lys Lys Gly Gln Ala Lys Arg
50 55 60
Lys Lys Ala Ala Gly Ala Thr Asp Ala Glu Asp Gly Gly Ala Asp Gly
65 70 75 80
Glu Glu Ala Ala Thr Pro Thr Lys Pro Lys Arg Gln Arg Lys Ala Pro

```
                85                  90                  95
Val Lys Lys Gly Thr Asp Ala Lys Ala Gly Ala Asp Ser Val Glu Asn
            100                 105                 110
Gly Tyr Val Thr Trp Val Phe Arg Ser Ile Leu Phe Asp Tyr His Ile
        115                 120                 125
Gly Asp Cys
    130
```

<210> 24592
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24592

```
Lys Asn Ile Ser Asp Leu Gly Asp Leu Ala Ala Ala Ile Lys Gln Arg
1               5                   10                  15
Gln Ala Asn Arg Met Glu Ser Leu Met Glu Lys Trp Gln Thr Glu Ala
            20                  25                  30
Asp Thr Leu Glu Gly Gly Asn Gly Lys Arg Thr Lys Arg Lys Thr Leu
        35                  40                  45
Phe Glu Glu Pro Pro Glu Glu Ala Phe Ala Ala Thr Ala Ala Arg Gln
    50                  55                  60
Ala Ser Lys Lys Thr Lys Lys Ser Lys Ala
65                  70
```

<210> 24593
<211> 116
<212> PRT
<213> A.fumigatus

<400> 24593

```
His Ser Ala Lys Phe Val His Glu Ser Asp Thr Pro Ile Gln Ile Leu
1               5                   10                  15
Glu Pro Phe Leu Leu Leu Gly Leu Leu Ala Asn Tyr Asn Lys Phe Glu
            20                  25                  30
Phe Gln Asn Pro Tyr Gln Leu Arg Leu Asp Asp Phe Val Asn Glu Ser
        35                  40                  45
Ser Ile Gln Lys Ile Val Lys Gly Val Gly Leu Ser Cys Ala Ala Leu
    50                  55                  60
Arg Asn Gly Tyr Ile Ala Val Gln Asp Asp Ala Pro Glu Gly Trp Thr
65                  70                  75                  80
Leu Ser Ser Thr Leu Val Phe Phe Gly Leu Gly Arg Leu Ala Pro Gly
                85                  90                  95
Thr Arg Asn Lys Thr Gln Ala Pro Thr Ala Glu Glu Ala Lys Glu Val
            100                 105                 110
Phe Ala Thr Leu
        115
```

<210> 24594
<211> 148
<212> PRT
<213> A.fumigatus

<400> 24594

```
Phe Thr Tyr Ser Arg Trp Leu Thr Gly Ile Arg Pro Ser Gln Glu Ala
1               5                   10                  15
```

```
Ala Ile Leu Leu Ser Thr Tyr Asp Phe Ala Asn Ala Asn Lys Leu Phe
            20                  25                  30
Gly Tyr His Leu Ile Asn Ser Met Pro Glu Lys Asp Ser Glu Glu Ser
        35                  40                  45
Pro Phe Ala Ser Phe Leu Ser Ile Thr Ser Tyr Met Leu Gln His Ala
    50                  55                  60
Tyr Arg Ser Pro Arg Val Ala His Tyr Ala Glu Leu Asn Leu Phe Thr
65                  70                  75                  80
Leu Arg Ile Leu Ser Glu Asp Ser Ala Leu Cys Lys Gln Leu Cys Ser
                85                  90                  95
Glu Gly Glu Lys Arg Lys Val Arg Leu Cys Arg Gln Arg Gln Pro Tyr
            100                 105                 110
Leu Pro Leu Val Ser Gly Asp Arg Val Leu Ala Thr Val Ile Phe Asp
        115                 120                 125
Ile Met Ile Asp Thr Ile Ser His Asn Leu Arg Arg Arg Leu Asp Ala
    130                 135                 140
Asn Ile Tyr Arg
145
```

<210> 24595
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24595

```
His Asp Ser Ser Ser Pro Val Val Lys Thr Ser Ile Glu Ser Gln Gly
1               5                   10                  15
Lys Thr Asp Tyr Leu Val Ile Tyr Lys Val Ala Thr Arg Leu Ser Ser
            20                  25                  30
Gln Thr Val Gly Ala Met Ile Leu Cys Ala His Thr Ser Leu Pro Leu
        35                  40                  45
Leu Asn Asn Val Tyr His Thr Ser Lys Tyr Phe Ile Val Phe Phe Met
    50                  55                  60
Thr Asn Gly Thr Thr Val Ala Leu Ser Asp Phe Val
65                  70                  75
```

<210> 24596
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24596

```
Pro Ala Tyr Arg Leu Ile Ile Pro Pro Phe Tyr Ile Lys Val Ser Ser
1               5                   10                  15
Ser Leu Thr Gly Met Ala Ser Ser Arg Phe Tyr Tyr Pro Leu Ala Ser
            20                  25                  30
Phe Ile Lys Tyr Leu Ala Ser Tyr Tyr Leu Ser Arg Ser Tyr Tyr His
        35                  40                  45
Ser Ser Phe Thr Ser Ser Ile Val His Ser Tyr Val Val Pro Glu Thr
    50                  55                  60
Phe Pro Leu Ser Leu
65
```

<210> 24597
<211> 104
<212> PRT

<213> A.fumigatus

<400> 24597
Pro Phe Pro Lys Val Pro Pro Gly Lys Gly Thr Leu Thr His Gln His
1 5 10 15
Phe Asp Asp Met Leu Asn Phe His Ser Thr Glu Glu Asp Lys Val Thr
20 25 30
Gly Arg Leu Val Thr Lys Phe Leu Asp Phe Lys Lys Pro Thr Arg Asp
35 40 45
Ile Arg Thr Arg Leu Met Gly Lys His Ala Lys Gly Met Thr Asp Gly
50 55 60
Glu Ala Lys Glu Leu Ala Leu Phe Val Asp Leu Leu Glu Arg Cys Leu
65 70 75 80
Ser Leu Asn Pro Glu Lys Arg Cys Thr Pro Ala Glu Ala Leu Arg His
85 90 95
Pro Phe Ile Ala Arg Pro Lys Ala
100

<210> 24598
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24598
Thr Ser Pro Thr Ser Leu Arg His Leu Asp Ala Asp Ala Val Arg Ile
1 5 10 15
Cys Lys Glu His Thr Glu Gly Val Asn Val Ile Glu Thr Thr Leu Asp
20 25 30
Lys Arg Asp Cys Arg Phe Gly Asn Ser Leu Gly Cys Ser Val Gly Gly
35 40 45
Tyr Cys Tyr Lys Ser Cys Ala Gln Pro Gly Ser Gly His Trp Cys Trp
50 55 60
Thr Ala His Asn Asn Gly Phe Arg Asp
65 70

<210> 24599
<211> 100
<212> PRT
<213> A.fumigatus

<400> 24599
Cys Ala Cys Leu Leu Gln Pro Ala Leu Phe Gln Ser Ser Ala Leu Lys
1 5 10 15
Ala Arg Gln Met Ala Phe Asn Glu Phe Glu Val Thr Ala Ala Pro Lys
20 25 30
Val Ala Glu Gly Glu Gly Lys Met Leu Thr Asp Glu Leu Val Gln Val
35 40 45
Asn Asp Asn Gly Ser Ser Pro Thr Ser Asn Asp Leu Asp Cys Glu Lys
50 55 60
His Gly Ala Ser Arg Gln Ser Asn Pro Leu Pro Asp Leu Lys Arg Lys
65 70 75 80
Leu Lys Ser Arg His Leu Gln Met Ile Ala Ile Gly Glu Ser Tyr Phe
85 90 95
Asp Ser Asn Ile
100

<210> 24600
<211> 361
<212> PRT
<213> A.fumigatus

<400> 24600
Leu Phe Gly Gly Phe Pro Lys Ser Thr Ala Pro Ser Arg Gly Ile Ser
1 5 10 15
Val Ala Ala Ala Pro Tyr Arg Val Phe Tyr Ser Arg Lys Asn Phe Leu
20 25 30
Phe Pro Asp Arg Gln Arg Gly Pro His Arg Ser Trp Arg Asp Glu Val
35 40 45
Arg Thr Met Asp Lys Leu Phe Leu Asn Gly Ser Ala Tyr Met Ile Gly
50 55 60
Lys Met Asn Gly Glu His Trp Tyr Leu Tyr Leu Thr Glu Pro His Thr
65 70 75 80
Met Leu Thr Pro Pro Thr Ser Pro Gly Ala Lys Thr Glu Phe Thr Glu
85 90 95
Thr Glu Thr Lys Val Leu Ser Val Pro Gln Gly Ala Ala Leu Gln Thr
100 105 110
Asp Ser Glu Asp Glu Thr Leu Glu Val Leu Met Thr Asp Leu Asp Glu
115 120 125
Glu Asn Ala Lys Gln Phe Tyr Leu Glu Asn Ala Thr Ala Val Ala Glu
130 135 140
Asn Arg Tyr Arg Asn Ser Asn Ser Glu Lys Ser Asp His Val Asp Val
145 150 155 160
Phe Ser Asn Thr Ser Ser Asp Ile Ser Asp Phe Asp Ser Asp Gly Ser
165 170 175
Gln Val Leu Pro Pro Glu Leu Thr Thr Glu Gly His Ala Leu Gly Thr
180 185 190
Val Val Ser Glu Ala Cys Gly Leu Ser Ser Val Tyr Pro Lys Glu Lys
195 200 205
Tyr Pro Asp Ser Arg Ile Asp Ala Tyr Leu Phe Thr Pro Cys Gly Phe
210 215 220
Ser Ala Asn Gly Val Ile Pro Pro Pro Glu Gly Lys Ala Gly Thr His
225 230 235 240
Tyr Phe Thr Val His Val Thr Pro Glu Pro His Cys Ser Tyr Ala Ser
245 250 255
Phe Glu Thr Asn Val Pro His Ser Gln Asn Gly Gln Thr Thr Ala Gly
260 265 270
Ile Ile Lys Gln Val Val Asp Ile Phe Lys Pro Gly Arg Phe Ser Val
275 280 285
Thr Leu Phe Glu Ala Lys Pro Ala Leu Ser Gln Val Glu Asp Glu Trp
290 295 300
Lys Glu Ala Lys Tyr Leu Ala Ala Arg Arg Thr Ala Lys Met Glu His
305 310 315 320
Val Glu Gly Tyr Arg Arg Val Asp Arg Ile Val His Asp Leu Asp Gly
325 330 335
Tyr Glu Leu Val Phe Arg Tyr Tyr Glu Arg Leu Asp Trp Lys Gly Gly
340 345 350
Ala Pro Arg Leu Gly Glu Glu Arg Ser
355 360

<210> 24601
<211> 171
<212> PRT

<213> A.fumigatus

<400> 24601
Pro Arg Ala Pro Cys Ser Ile Val Ala Gln Leu Cys Thr Phe Val Ile
1 5 10 15
Asn Arg Ile Gln Phe Leu Asn His Ile Ser Asn His His Thr Lys Pro
20 25 30
Asn Met Gly Ser Ile Ala Gln Thr Val Arg Glu Leu Asp Ala Ser Thr
35 40 45
Val Lys Val Thr Arg Ser Thr Asn Leu Arg Leu Val Pro Glu Pro Gly
50 55 60
Ser Pro Glu Glu Leu Ser His Ser His Cys Thr Asp His Met Val Thr
65 70 75 80
Val Arg Trp Thr Val Asn Asn Gly Trp Glu Thr Pro Glu Ile Lys Pro
85 90 95
Tyr Glu Asn Leu Ser Ile Pro Pro Thr Ala Gly Cys Leu His Tyr Ala
100 105 110
Thr Glu Cys Phe Glu Gly Ile Lys Val Tyr Arg Gly Tyr Asp Gly Lys
115 120 125
Leu Arg Leu Phe Arg Pro Asp Cys Asn Gly Glu Arg Leu Val Met Ser
130 135 140
Ala Gln Arg Thr Ser Leu Pro Thr Phe Arg Phe Glu Glu Leu Lys Val
145 150 155 160
Leu Ile Ala Lys Leu Met Gln Ile Asp Gly Pro
165 170

<210> 24602
<211> 100
<212> PRT
<213> A.fumigatus

<400> 24602
Glu Cys Leu Asp Cys Ser Leu Ser Asn Gly Ala Thr Gly Ile Asp Ala
1 5 10 15
Ser Gly Ile Ser Gly Ser Leu Thr Val Ile Asp Ser Ser Gly Asn Ser
20 25 30
Leu Gly Asn Met Ile Val Ser Ser Asn Ala Gly Gly Ser Ala Gln Asn
35 40 45
Ser Ile Ile Leu Glu Asn Val Gln Cys Thr Asn Ser Gly Ser Thr Val
50 55 60
Ser Leu Asn Asn Asn Ala Val Leu Ser Gly Ser Val Thr Ser Thr Trp
65 70 75 80
Val His Gly Asn Met Val Ser Arg Ile Pro Gly Leu Leu His Leu Pro
85 90 95
Ala His Arg Met
100

<210> 24603
<211> 214
<212> PRT
<213> A.fumigatus

<400> 24603
Tyr Ser Gly Gly Ala Thr Thr Pro Thr His Ala Gln Gly Ser Gln Val
1 5 10 15
Thr Thr Pro Arg Ala Asn Val Leu Leu Gly Ala Asn Ser Lys Tyr Phe

```
            20                  25                  30
Thr Met Ala Pro Pro Thr Tyr Ala Gln Tyr Ser Ser Ser Gln Phe Ile
        35                  40                  45
Asn Val Lys Thr Val Ser Gly Leu Pro Val Met Gly Asp Gly Ala Thr
    50                  55                  60
Asp Asp Thr Ala Asn Ile Asn Ala Ile Leu Ala Gln Tyr Ala Gly Cys
65                  70                  75                  80
Lys Ile Ile Tyr Phe Pro Ala Gly Thr Tyr Ile Val Thr Gly Thr Ile
                85                  90                  95
Phe Val Pro Ala Gly Ser Ile Ile Val Gly Asp Ala Tyr Ala Ser Ala
            100                 105                 110
Ile Ser Ala Thr Gly Ser Asn Phe Trp Asn Pro Asn Ala Pro Thr Thr
        115                 120                 125
Met Val Lys Val Gly Asn Ala Gly Asp Val Gly Val Ala Gln Phe Thr
    130                 135                 140
Asp Met Met Phe Thr Val Ala Asp Val Leu Gln Gly Cys Lys Leu Val
145                 150                 155                 160
Gly Gln Pro Pro Phe Arg Leu Asp Ala Thr Thr Asn Cys Lys Ala Gly
                165                 170                 175
Arg Ser Gln His Cys Arg Cys Ser Ser Trp Arg Arg Gly Ile Leu Glu
            180                 185                 190
His Ala Phe Pro His Arg Arg Cys Arg Arg Leu Gln Thr Leu His His
        195                 200                 205
Asn Glu Gln Glu Pro Ala
    210
```

<210> 24604
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24604

```
Arg Ala Lys Leu Pro Val Gln Pro Asp Tyr Gly Asp Gly Lys Ser Asp
1               5                   10                  15
Glu Asp Val Ser Trp Met Tyr Met Ser Val Ile Asp Tyr Ile Arg Tyr
            20                  25                  30
Tyr Asn Asp Leu Asp Glu Arg Leu Val Val Arg Phe Val Phe Ala Ala
        35                  40                  45
Ala Arg Gln Thr Ser Glu Asn Val Ala Ala Thr Ala
    50                  55                  60
```

<210> 24605
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24605

```
Leu Ala Gly Ser Phe Trp Val Ser Val Ala Arg Asn Trp Leu Gly Ser
1               5                   10                  15
Thr Leu Pro Leu Gln Pro Tyr Ser Thr Leu Ala Asn Thr Ile Leu Val
            20                  25                  30
Ala Ser Leu Val Leu Pro Phe Phe His Arg Leu Tyr Pro Asn Ser His
        35                  40                  45
Tyr Leu His Arg Leu Met Val Leu Phe Leu Thr Phe Ser Pro Thr Phe
    50                  55                  60
Ile Ile Leu Thr Ile
```

65

<210> 24606
<211> 154
<212> PRT
<213> A.fumigatus

<400> 24606
Arg His Glu Pro Ile Lys Arg Ser Gly Ala Leu Phe Ala Thr Ala Leu
1 5 10 15
Glu Gly Leu Arg Tyr Leu Gln Thr Tyr Asp Trp Leu Phe Leu Arg Thr
20 25 30
Ile Ile Thr Phe Gly Tyr Leu Gly Trp Ile Ala Tyr Ala Leu Thr Thr
35 40 45
Val Ile Asp Leu His Val Leu His Arg Thr Ser Asp Ser Lys Arg Thr
50 55 60
Val Gly Ser Thr Ile Phe Phe Thr Ser Ile Leu Ala Ala Leu Phe Ser
65 70 75 80
Val Leu Leu Tyr Gln Lys Ser Ser Trp Gln Tyr Tyr Val Tyr Gly Ala
85 90 95
Phe Pro Ile Phe Phe Trp Glu Glu Val Phe Ala Arg Arg Lys Ala Leu
100 105 110
Ile Ala Gly Arg Glu Ile Leu Leu Gly His Val Arg Ser Phe Gly Gly
115 120 125
Tyr Ile Ala Ser Gly Phe Gln Leu Val Ala Phe Val Ala Val Leu Glu
130 135 140
Ala Leu Val Cys Tyr Asp Thr Leu Thr Tyr
145 150

<210> 24607
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24607
Arg Pro Gln Leu Ser Arg Leu Ile Tyr Arg Trp Cys Ser Asn Asp Arg
1 5 10 15
Leu Cys Arg Thr Tyr Gly Ala Leu Leu Met Phe Phe Thr Gly Leu Phe
20 25 30
Tyr Leu Leu Phe Glu Asp Thr Ile Leu Lys His Ser Lys Ser Ser Gly
35 40 45
His Ala Pro Gly Ala Ile Ser Ser Leu Gly Ser Arg Val Ile Met Gly
50 55 60
Met Gln Val Gln Phe Phe Val Leu Phe Ile Phe Ser Cys Gly Leu Gln
65 70 75 80
Asp Tyr Val Ala Ala Val Ser Leu Pro
85

<210> 24608
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24608
Leu Leu Asn Arg Lys Leu Leu Leu Tyr Ser Pro Leu Phe Ala Met Ser
1 5 10 15

```
Gln Leu Glu Leu Glu Ala Leu Cys Lys Tyr Leu Asn Lys Ile Leu Lys
            20                  25                  30
Lys Gly Trp Ile Arg Glu Leu Ser Ser Leu Val Ala Ala Leu Val Leu
        35                  40                  45
Phe Ile Lys Lys Leu Asp Arg Gly Leu Tyr Leu Cys Ile Asn Tyr Gln
    50                  55                  60
Gly Leu Asn Thr Ile Ile Val Lys Asn
65                  70
```

<210> 24609
<211> 135
<212> PRT
<213> A.fumigatus

<400> 24609

```
Arg Gly Leu Lys Tyr Val His Ser Ala Gly Val Val His Arg Asp Leu
1               5                   10                  15
Lys Pro Ser Asn Ile Leu Ile Asn Glu Asn Cys Asp Leu Lys Ile Cys
            20                  25                  30
Asp Phe Gly Leu Ala Arg Ile Gln Asp Pro Gln Met Thr Gly Tyr Val
        35                  40                  45
Ser Thr Arg Tyr Tyr Arg Ala Pro Glu Ile Met Leu Thr Trp Gln Lys
    50                  55                  60
Tyr Asp Val Glu Val Asp Ile Trp Ser Ala Gly Cys Ile Phe Ala Glu
65                  70                  75                  80
Met Leu Glu Gly Lys Pro Leu Phe Pro Gly Lys Asp His Val Asn Gln
                85                  90                  95
Phe Ser Ile Ile Thr Glu Leu Leu Gly Thr Pro Pro Asp Asp Val Ile
            100                 105                 110
Gln Thr Ile Cys Ser Glu Asn Val Ser Gly Arg Pro Ala Phe Arg Leu
        115                 120                 125
Leu Leu Ile Ala Asn Ser Cys
    130                 135
```

<210> 24610
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24610

```
Tyr Val Ser Arg Asp Ala Ser Ser Ala Arg Asp Gln Leu Thr Gly Gln
1               5                   10                  15
Pro Val Ala Val Lys Lys Ile Met Lys Pro Phe Ser Thr Pro Val Leu
            20                  25                  30
Ser Lys Arg Thr Tyr Arg Glu Leu Lys Leu Leu Lys His Leu Arg His
        35                  40                  45
Glu Asn Val Cys Gly His Pro Thr Ala Asn Ile Leu Pro Pro Leu Cys
    50                  55                  60
Ser Asp Ser Leu Gly Arg Ser Leu Ala
65                  70
```

<210> 24611
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24611
Gln Leu Asp Ser Tyr Phe Val Thr Glu Leu Leu Gly Thr Asp Leu His
1 5 10 15
Arg Leu Leu Thr Ser Arg Pro Leu Gly Glu Thr Ile His Ser Ile Leu
20 25 30
Pro Ile Ser Asp Phe Gly Met Pro Arg Leu Leu Pro Pro Phe Arg Gln
35 40 45
Tyr Leu Asn Gln Tyr Leu Asn Ala Asn His Val Phe Cys Ser Glu Val
50 55 60

<210> 24612
<211> 83
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53),(59)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24612
His Asp Ala Pro Ser Asn Gly Val Thr Ile Lys Pro Arg Ser Tyr Ser
1 5 10 15
Arg Gln Asp Gly His Thr Leu Val Ala Cys Val Gly Lys Leu Pro Cys
20 25 30
Gly Phe Gly Thr Phe Pro Arg Ile Pro Gly Leu Lys Gln Asp Leu Thr
35 40 45
Asp Glu Ala Leu Xaa Gly Pro Met Cys Ile Xaa His Asn Val Gln Tyr
50 55 60
Met Arg Cys Ile Pro Arg Met Ala Gly Gly Asn Ile Pro Arg Pro Lys
65 70 75 80
Arg Lys His

<210> 24613
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24613
Val Glu Val Asp Thr Arg Ala Asn Ile Leu Leu Leu Asp Ile Ser Gly
1 5 10 15
Gln Ile Ile Ala Phe Ser Thr Ser Thr Glu Asp Ala Lys Ile Leu Gln
20 25 30
Pro Gly Phe Leu Cys Asp Asn Ser Trp Arg Met Lys Thr Glu Met Asp
35 40 45
Tyr Gly Ser Asp Gly Pro Met Ile Gly Arg Thr Ile Ser Gln Trp Thr
50 55 60
Gly Lys Val Asn Gln
65

<210> 24614
<211> 82
<212> PRT
<213> A.fumigatus

<400> 24614
Asp Ser Ser Ile Phe Gln His Ser Leu His Met Leu Ser Leu Ala Thr
1 5 10 15
Pro Phe His Ser Phe Leu Phe Gly Asn Lys Ile Thr Pro Phe Leu Leu
20 25 30
Ser Leu Phe Thr Ile His Glu Ala Leu Ser Leu Arg Pro Ser Ile Phe
35 40 45
Phe Ser Thr Leu Phe Cys Asn Val Asp Gly Cys Tyr Phe Leu Asn Lys
50 55 60
Ser Ser Tyr Leu Asn Gly Ser Cys Leu Arg Pro Tyr Glu Lys Gln Phe
65 70 75 80
Val Pro

<210> 24615
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24615
Thr Ile Gln Val Ile Gln Gly Arg Asp Trp Gly Xaa Ile Ile Ala Arg
1 5 10 15
Val Met Ala Thr Leu Tyr Pro Gln His Ile Lys Ala Val His Leu His
20 25 30
Phe Ala Pro Val Ala Pro Pro Tyr Pro Trp Gly His Pro Trp Ile Phe
35 40 45
Val Gln Ile Asn Ser Glu Ser Ser Leu Leu Leu Ala Glu Gln Cys Leu
50 55 60

<210> 24616
<211> 113
<212> PRT
<213> A.fumigatus

<400> 24616
Ser Ile Pro Asp Ser Gln Leu Asp Leu Leu His Gln Lys Leu Gln Ala
1 5 10 15
Ala Thr Phe Pro Asp Glu Leu Asp Ala Ala Gly Trp Asp Leu Gly Val
20 25 30
Pro Leu Asp Glu Ile Lys Arg Leu Thr Ala Tyr Trp Arg Asp Gly Phe
35 40 45
Asp Trp Arg Ala Lys Glu Lys Glu Leu Asn Gly Lys Leu His Gln Phe
50 55 60
Met Val Ser Val Ser Val Ser Gly Phe Val Gln Leu Asp Ile His Cys
65 70 75 80
Val His Gln Arg Ser Pro Met Pro Gly Ala Ile Pro Leu Leu Phe Leu
85 90 95
His Gly Cys Asn Val Pro Tyr Val Arg Leu Ala Leu Gln Met Lys Val
100 105 110
Cys

<210> 24617
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (31),(43)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24617
Met Val Cys Gly Ile Ser Ser Arg Arg Leu Thr Trp Pro Thr Lys Pro
1 5 10 15
Gly Thr Ser Cys Leu Pro Arg Leu Asp Lys Phe Ile Pro Phe Xaa Lys
20 25 30
Asn Ser Ser Trp Arg Glu Asp Thr Asp Thr Xaa Asp Gly Gly Thr Gln
35 40 45
Val Ile Phe Leu Met Gly Pro Asn Ala Val Asp Glu Asn Gly Thr Val
50 55 60
Phe Leu His
65

<210> 24618
<211> 152
<212> PRT
<213> A.fumigatus

<400> 24618
Arg Thr Ala Lys Asp Gly Ala Arg Ser Ser Tyr Gly Val Phe Trp Gly
1 5 10 15
His Asn Asn Val Leu Asn Thr Ala Val Pro Val Glu Gly Glu Gly Asn
20 25 30
His Thr Asn Gln Val Ala Glu Leu Arg Ala Cys Met Arg Ala Leu Leu
35 40 45
Asp Val Val His Val Arg Ser Leu Phe Glu Asp Gln Gly Ile Ile Leu
50 55 60
Ser Ala Val Val Ile Lys Ser Asp Ser Glu Tyr Leu Val Arg Gly Val
65 70 75 80
Thr Glu Trp Leu Pro Lys Trp Lys Arg Asn Gly Trp Lys Asn Ser Arg
85 90 95
Gly Leu Asp Val Ala Asn Trp Glu His Phe Lys Ala Ile Glu Arg Leu
100 105 110
Thr Glu Asp Leu Glu Arg His Lys Leu Thr Ile Lys Phe Trp His Val
115 120 125
Pro Arg Arg Asn Asn Arg Asp Ala Asp Thr Met Ala Lys Ala Val Leu
130 135 140
Arg Gly Ala Trp Asn Arg Gly Leu
145 150

<210> 24619
<211> 114
<212> PRT
<213> A.fumigatus

<400> 24619

```
Val Pro Cys Ala Thr Ala Arg Ser Gly Pro Ala Asn Ser Leu Phe Pro
1               5                  10                  15
Asp Pro Ile Ala Thr Gln Ile Thr Ser Thr Ala Leu Gly Pro Arg Pro
            20                  25                  30
Lys Trp Thr Phe Cys Ser Gly Asn Thr Ala Met Pro Pro Thr Ala Asp
        35                  40                  45
Cys Pro Pro Thr Ser Gln Pro Val His Ser Asp Ala Asp Phe Asp His
    50                  55                  60
Pro Thr His Pro Phe Ala Tyr Val Ile Asn Ile Pro Leu Ile Glu Met
65                  70                  75                  80
Thr Pro Glu Asn Gly Ser Thr Glu Ile Trp Leu Gly Thr His Ile Asp
                85                  90                  95
Ser Gly Leu His Ile Gln Glu Gly Met His Gly Asp Arg Ala Ser Gly
            100                 105                 110
Arg Ile
```

<210> 24620
<211> 328
<212> PRT
<213> A.fumigatus

<400> 24620

```
Ile Ser Pro Ala Arg Ile Leu Pro Ala Pro Gly Glu Asp Asn Trp Pro
1               5                  10                  15
Thr Asp Leu Val Asp Val Lys Pro Tyr Leu Gln Arg Pro Asp Val Val
            20                  25                  30
Gln Ala Leu Asn Ile Asn Pro Glu Lys Lys Ser Gly Trp Glu Glu Cys
        35                  40                  45
Ser Gly Ala Val Ser Ser Thr Phe Asn Ala Ala Asn Ser Leu Pro Ser
    50                  55                  60
Val Gln Leu Leu Pro Glu Leu Leu Glu Ser Gly Ile Pro Ile Leu Leu
65                  70                  75                  80
Phe Ser Gly Asp Lys Asp Leu Ile Cys Asn His Val Gly Thr Glu Gln
                85                  90                  95
Leu Ile Asn Asn Met Lys Trp Asn Gly Gly Thr Gly Phe Glu Thr Ser
            100                 105                 110
Pro Gly Val Trp Ala Pro Arg His Asp Trp Thr Phe Glu Gly Glu Pro
        115                 120                 125
Ala Gly Ile Tyr Gln Tyr Ala Arg Asn Leu Thr Tyr Val Leu Phe Tyr
    130                 135                 140
Asn Ala Ser His Met Val Pro Tyr Asp Leu Pro Arg Gln Ser Arg Asp
145                 150                 155                 160
Met Leu Asp Arg Phe Met Lys Val Asp Ile Ala Asn Ile Gly Gly Lys
                165                 170                 175
Pro Ala Asp Ser Arg Ile Asp Gly Glu Lys Leu Pro Gln Thr Ser Val
            180                 185                 190
Gly Gly His Pro Asn Ser Thr Ala Ala Glu Gln Gln Ala Lys Glu Lys
        195                 200                 205
Ile Lys Glu Thr Glu Trp Lys Ala Tyr Ala Lys Ser Gly Glu Ala Ala
    210                 215                 220
Leu Ile Val Val Ile Ile Gly Val Thr Val Trp Gly Leu Phe Ile Trp
225                 230                 235                 240
Arg Ser Arg Arg Arg Asn Arg Gly Tyr Gln Gly Val Tyr Gln Arg Asp
                245                 250                 255
Ile Gly Ser Gly Tyr Ile Met Glu Arg Phe His Asn Lys Arg Ser Gly
```

```
            260                 265                 270
Pro Ala Asp Val Glu Ala Gly Asp Phe Asp Glu Ser Glu Leu Asp Asn
        275                 280                 285
Ile His Ser Pro Gly Leu Glu Gln Glu His Tyr Ala Val Gly Asp Asp
    290                 295                 300
Ser Asp Glu Glu Ser Pro Asn His Gln Pro Ala Ala Pro Pro Ser Ser
305                 310                 315                 320
Thr Lys Pro Gly Gly Ala Gln Pro
                325
```

<210> 24621
<211> 123
<212> PRT
<213> A.fumigatus

<400> 24621

```
Asn Gln Ser His Thr Lys Ser Pro His Pro Ile Thr Arg His Thr Gln
1               5                   10                  15
Ile Tyr His Thr Asp Pro Ala Ala Ala Ile Ala Val Pro Met Ala Ser
            20                  25                  30
Ile Leu Gln Ala Ile Arg Tyr Ser His Gly Lys Leu Ala Ile Ile Asp
        35                  40                  45
Gln Leu Gln Leu Pro Tyr Val Glu Lys Phe Ile Thr Ile Arg Thr Ser
    50                  55                  60
Glu Asp Ala Trp His Ala Ile Lys Glu Met Arg Val Arg Gly Ala Pro
65                  70                  75                  80
Ala Ile Ala Ile Val Ala Ala Leu Ala Leu Ala Ser Glu Leu Asn Thr
                85                  90                  95
Leu Ile Ile His Asp Lys Leu Ser Ser Arg Ala Glu Glu Val Lys Leu
            100                 105                 110
Phe Ile Arg Glu Lys Leu Asp Tyr Leu Val Ser
        115                 120
```

<210> 24622
<211> 81
<212> PRT
<213> A.fumigatus

<400> 24622

```
Gln Glu Ile Lys Val Leu Arg Ala Lys Asn Lys Gln Lys Met Lys Lys
1               5                   10                  15
Lys Ala Arg Lys Tyr Thr Ser Leu Gly Asn Asn Leu Phe Ile Ser Met
            20                  25                  30
Gln Glu Gly Arg Asp Tyr Ile Gln Gln Val Asn Glu Gln Val Asp Glu
        35                  40                  45
Gln Val Ser Lys Ser Thr Pro Ile Ser Cys Gln Arg Ala Pro Pro Arg
    50                  55                  60
Cys Ser Gly Cys Trp Thr Ile Arg His Thr Arg Arg Ser Cys Pro Asn
65                  70                  75                  80
Lys
```

<210> 24623
<211> 221
<212> PRT
<213> A.fumigatus

<400> 24623
Pro Gln Thr Leu Asn Asn Ala Thr Ser Leu Phe Asn Gly Gly Asp Lys
1 5 10 15
Gly Trp Gly Arg Gln Thr Trp Asp Ile Ala Val His Ile Ser Asn Ser
20 25 30
Ile Thr Phe Val Leu Phe Asp Asn Arg Trp Asn Gly Phe Pro Gly Ile
35 40 45
Phe Ala Ser Cys Val Thr His Thr Val Thr Pro Tyr Glu Trp Arg Ile
50 55 60
Ala Phe Gly Val Thr Pro Leu Leu Lys Ala Gly Pro Ile Asn Phe Ser
65 70 75 80
Gln Gln Val Phe Phe Asn Leu Asp Gly Phe Arg Gly Asn Ala Ser Thr
85 90 95
Ser Asp Ala Ser Asp Ser Thr Val Leu Asn His Arg Pro Arg Leu Pro
100 105 110
Ser Ser Gly Met Arg Phe Asp Val Asp Glu Trp Glu Ile Pro Thr Gly
115 120 125
Asp Met Lys Ser Asn Arg Glu Gly Lys Glu Phe Asp Phe Trp Ser Ala
130 135 140
Asp Lys Phe Ile Gly Asp Glu Val Gln Lys Gly Asn Ala Gly Ser Asp
145 150 155 160
Val Thr Tyr Val Leu Ser His Lys Pro Leu Gly Asp Lys Glu Asp Glu
165 170 175
Pro Val Ala Ile Leu Ser Ser Lys Pro Ser Gly Val Thr Met Glu Leu
180 185 190
Tyr Thr Asp Gln Asp Ala Leu His Val His Thr Trp Asn Ser Asp Leu
195 200 205
Gly Asn Met Thr Phe Phe Cys Ser Gly Trp Ser Arg Asn
210 215 220

<210> 24624
<211> 360
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (354)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24624
Ala Ile Met Pro Pro Lys Ser Val Arg Arg Gly Ala Ala Ala Ala Ala
1 5 10 15
Ala Ala Gly Arg Gly Gly Gly Gly Glu Gly Thr Ala Pro Arg Gln Thr
20 25 30
Thr Ser Glu Ala Ala Ser Asn Thr Pro Thr Gly Ser Ala Ala Ser Thr
35 40 45
Pro Gln Pro Ser Thr Ala Val Gly Thr Pro Ser Thr Arg Ala Pro Val
50 55 60
Gln Arg Leu Gln Thr Leu Lys Lys Arg Thr Pro Ser Gly Ser Ile Gly
65 70 75 80
Pro Pro Ala Arg Thr Pro Ala Ala Thr Thr Pro Gly Asn Gly Glu Pro
85 90 95
Thr Lys Pro Ile Leu Lys Tyr Lys Pro Arg Ala Val Gly Arg Arg Ser
100 105 110

```
Lys Glu Glu Arg Asp Ala Ile Glu Lys Leu Glu Ala Glu Arg Asn Arg
        115                 120                 125
Glu Arg Leu Ala Glu Val Ala Ala Met Ser Arg Gly Arg Gly Asn Leu
    130                 135                 140
Gln Arg Gly Arg Gly Gly Pro Gly Arg Gly Arg Gly Val Pro Leu Gly
145                 150                 155                 160
Gly Gly Arg Arg Gly Arg Gly Gly Arg Phe Glu Pro Asp Ser Arg Ala
                165                 170                 175
Ser Ser Met Ser Arg Ser Arg Ser Val Ile Asp Ile Ala Ser Gly Ser
            180                 185                 190
Ala Ser Arg His Val Ser Ser Asp Glu Ser Asp Thr Glu Thr Ile Leu
        195                 200                 205
Pro Ile Asp Gln Ile Glu Val Asp Ser Asp Glu Glu Leu Asp Asp Val
    210                 215                 220
Ala Asp Ser Lys Lys Gly Lys Leu Pro Leu Arg Tyr Ala Asn Arg Glu
225                 230                 235                 240
Lys Gly Leu Arg Pro Val Arg Val Glu Arg Arg Glu His Glu Glu Arg
                245                 250                 255
Val Val Ser Val Asn Met Glu Ser Ser Thr Ser Lys Pro Ala Glu Ala
            260                 265                 270
Glu Thr Lys Ala Glu Asp Glu Val Glu Glu Val Gly Ala Lys Lys Thr
        275                 280                 285
Arg Pro Glu Asp Asp Ser Leu Phe Val Arg Asp Asp Asp Val Ile Glu
    290                 295                 300
Pro Gln Val Lys Glu Glu Pro Ile Asp Asp Asp His Pro Met Thr Asp
305                 310                 315                 320
Val Val Pro His Val Gly Glu Ala Thr His Asp Asp Gly Phe Leu Pro
                325                 330                 335
Ala Gln Lys Val Lys Val Arg Arg Arg Leu Ser Pro Lys Ile Pro Asp
            340                 345                 350
His Xaa Ala Ala Ala Met Glu Asp
        355                 360
```

<210> 24625
<211> 374
<212> PRT
<213> A.fumigatus

```
<400> 24625
Ser Gly Ile Leu Gly Leu Ser Arg Leu Arg Thr Leu Thr Phe Cys Ala
1               5                   10                  15
Gly Arg Lys Pro Ser Ser Cys Val Ala Ser Pro Thr Trp Gly Thr Thr
            20                  25                  30
Ser Val Ile Gly Trp Ser Ser Ser Ile Gly Ser Ser Phe Thr Cys Gly
        35                  40                  45
Ser Ile Thr Ser Ser Ser Arg Thr Lys Arg Glu Ser Ser Ser Gly Leu
    50                  55                  60
Val Phe Phe Ala Pro Thr Ser Ser Thr Ser Ser Ser Ala Phe Val Ser
65                  70                  75                  80
Ala Ser Ala Gly Leu Leu Val Leu Asp Ser Met Leu Thr Leu Thr Thr
                85                  90                  95
Arg Ser Ser Cys Ser Arg Arg Ser Thr Arg Thr Gly Arg Arg Pro Phe
            100                 105                 110
Ser Arg Phe Ala Tyr Arg Lys Gly Ser Phe Pro Phe Leu Leu Ser Ala
        115                 120                 125
Thr Ser Ser Asn Ser Ser Ser Leu Ser Thr Ser Ile Trp Ser Met Gly
```

```
    130                 135                 140
Ser Ile Val Ser Val Ser Leu Ser Ser Asp Asp Thr Trp Arg Leu Ala
145                 150                 155                 160
Glu Pro Leu Ala Ile Ser Ile Thr Asp Arg Leu Arg Asp Ile Asp Asp
                165                 170                 175
Ala Arg Glu Ser Gly Ser Asn Arg Pro Pro Arg Pro Arg Arg Pro Pro
            180                 185                 190
Pro Ser Gly Thr Pro Arg Pro Arg Pro Gly Pro Pro Leu Pro Arg Cys
        195                 200                 205
Arg Phe Pro Arg Pro Arg Leu Met Ala Ala Thr Ser Ala Asn Arg Ser
    210                 215                 220
Arg Phe Arg Ser Ala Ser Ser Phe Ser Ile Ala Ser Arg Ser Ser Leu
225                 230                 235                 240
Leu Arg Arg Pro Thr Ala Arg Gly Leu Tyr Phe Ser Ile Gly Phe Val
                245                 250                 255
Gly Ser Pro Phe Pro Gly Val Val Ala Ala Gly Val Leu Ala Gly Gly
            260                 265                 270
Pro Met Leu Pro Glu Gly Val Arg Phe Phe Arg Val Cys Arg Arg Cys
        275                 280                 285
Thr Gly Ala Arg Val Asp Gly Val Pro Thr Ala Val Asp Gly Trp Gly
    290                 295                 300
Val Asp Ala Ala Asp Pro Val Gly Val Phe Asp Ala Ala Ser Leu Val
305                 310                 315                 320
Val Cys Arg Gly Ala Val Pro Ser Pro Pro Pro Pro Arg Pro Ala Ala
                325                 330                 335
Ala Ala Ala Ala Ala Pro Arg Arg Thr Asp Leu Gly Gly Met Ile Ala
            340                 345                 350
Gln Arg Ile Trp Ala Arg Thr Arg Cys Val Leu Gln Arg Arg Glu Arg
        355                 360                 365
Thr Glu Glu Ser Val His
    370

<210> 24626
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24626
Pro Asp Phe Leu Thr Gly Met Ser Leu Arg Ser Leu Phe Val Ala Gly
1               5                   10                  15
Leu Ala Thr Leu Ala Leu Ala Val Pro Ala Pro Gln Ile Gln Ala Arg
            20                  25                  30
Gln Gly Met Ser Ser Asn Glu Leu Glu Ser Gly Pro Cys Arg Asp Val
        35                  40                  45
Thr Phe Ile Phe Ala Arg Gly Ser Thr Glu Gln Gly Asn Met Val Cys
    50                  55                  60
Phe Ser Thr Arg Ser Ser Leu Ser Thr
65                  70

<210> 24627
<211> 78
<212> PRT
<213> A.fumigatus

<400> 24627
Gly Leu Ile Val Gly Pro Gly Val Cys Ser Ser Leu Lys Lys Asp Leu
```

```
1               5                   10                  15
Gly Ser Asp Lys Val Ala Cys Gln Gly Val Gly Gly Ala Tyr Thr Ala
            20                  25                  30
Gln Leu Ala Pro Asn Phe Leu Ser Gln Asn Thr Asn Gln Ala Ser Ile
        35                  40                  45
Asn Ala Ala Thr Asp Met Phe Asp Leu Ala Asn Thr Lys Cys Pro Asn
    50                  55                  60
Thr Lys Ile Val Ala Gly Gly Tyr Arg Tyr Ile Ile Cys Ile
65                  70                  75
```

<210> 24628
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24628

```
Arg Ser Pro Leu Tyr Asp Phe Thr Ser Ser Ala Val Lys Thr Glu Ala
1               5                   10                  15
Leu Gln Gly Phe Arg Ile Cys Ile Leu Arg Arg Cys Ile Gln Val Thr
            20                  25                  30
Asp Ile Leu Lys Gly Tyr Lys Ala Arg Ala Ala His Asp Val Glu Cys
        35                  40                  45
Ser Thr Asn Ser Ile Phe Phe Phe Gln Val Val Lys Thr Ala Ser Ile
    50                  55                  60
His Ser Gly Ile Pro Asp Gln Thr Leu Ala
65                  70
```

<210> 24629
<211> 91
<212> PRT
<213> A.fumigatus

<400> 24629

```
Asn Asn Ser Gln Gly Ser Ala Val Ile Asp Asn Thr Ile Gln Ala Leu
1               5                   10                  15
Gly Ser Asp Leu Lys Ala Lys Val Lys Gly Val Val Leu Phe Gly Phe
            20                  25                  30
Thr Arg Asn Val Ala Asp Lys Gly Gln Ile Pro Gly Tyr Pro Lys Asp
        35                  40                  45
Gln Thr Lys Ile Tyr Cys Ala Val Gly Asp Met Val Cys Val Asn Thr
    50                  55                  60
Leu Ile Ile Thr Pro Ala His Leu Thr Tyr Gly Ala Asp Ala Gly Asp
65                  70                  75                  80
Ala Ala Lys Phe Leu Ala Ser Lys Val His Glu
                85                  90
```

<210> 24630
<211> 85
<212> PRT
<213> A.fumigatus

<400> 24630

```
Pro Leu Leu Met Val Pro Ser His Thr Met Val His Arg Tyr Thr Ala
1               5                   10                  15
Ser Leu Ser Ser Leu Pro Arg Asp Glu Leu Leu Ala Phe Pro Phe Phe
            20                  25                  30
```

```
Pro Ile Gly Ala Leu Pro Pro Phe Pro Tyr Met Tyr Gln Thr Lys Gly
        35                  40                  45
Ile Lys Lys Cys Ile Ala Phe Lys Thr Lys Glu Glu Tyr Leu His Gly
    50                  55                  60
Ser Leu Ala Phe Leu Ser Gly Asn Val Glu Asn Ala Gly Ser Gln Arg
65                  70                  75                  80
Leu Thr Cys Met Ser
                85
```

<210> 24631
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24631

```
Ser Gly Ile Thr Pro Asp Asp Pro Asp Thr Ser Ile Asp Gly Lys Gly
1               5                  10                  15
Thr His Tyr Ile Ala Gly Ile Asn Ser Ser Thr Ser Pro Phe Ser Arg
            20                  25                  30
Val Pro Ile Leu Gln Ala Arg Phe Ser Leu Asp Pro Leu His Gln Ala
        35                  40                  45
Asn Asn Gly Met Thr Asp Leu Arg Asn Phe Ser Ile Ser
    50                  55                  60
```

<210> 24632
<211> 152
<212> PRT
<213> A.fumigatus

<400> 24632

```
Arg Gln Ala Glu Asn Thr Gln Pro Ala Phe Ile Gln Lys Leu Arg Asn
1               5                  10                  15
Gln Tyr Gly Asp Met Ser Gly Arg Leu Glu Arg Pro Val Ala Arg Pro
            20                  25                  30
Arg Leu Ala Lys Lys Asp Asp Glu Asp Asp Asp Glu Pro Thr Tyr Val
        35                  40                  45
Asp Glu Gly Ser Asn Glu Val Ile Ser Lys Glu Glu Tyr Glu Ala Leu
    50                  55                  60
Leu Arg Gly Glu Glu Lys Gln Gln Glu Ser Ser Glu Gln Gln Ser Gly
65                  70                  75                  80
His Glu Ser Arg Gln Asp Thr Glu Lys Pro Asp Thr Glu Val Ala Ser
                85                  90                  95
Ser Lys Gln Asn Leu Ala Gly Ile Gly Gly Pro Lys Lys Arg Lys Gln
            100                 105                 110
Ala Lys Val Val Ala Asp Asp Ser Ala Glu Ala Glu Asn Thr Thr Gln
        115                 120                 125
Gln Glu Arg Thr Gly Pro Gln Lys Ala Lys Glu Lys Gln Lys Lys Lys
    130                 135                 140
Lys Ile Lys Leu Ser Phe Asp Glu
145                 150
```

<210> 24633
<211> 115
<212> PRT
<213> A.fumigatus

<400> 24633
Arg Phe Tyr Glu Val Gln Gly Arg Gly Glu Trp Pro Gly Arg Ala Gly
1 5 10 15
Val Ser Glu Lys Arg Pro Glu Gly His Pro Leu Cys Gly Glu Cys Val
20 25 30
Arg Phe Ser Leu Pro Ser Cys Leu Arg Ser Asp Ser Met Arg Val Val
35 40 45
Gln Glu Ser Val Pro Arg Leu Ile Glu Ala Tyr Arg Gly Asn Arg Ile
50 55 60
Lys Asp Ile Asn Thr His Cys Leu Lys Gln Phe Asn Ala His Trp Glu
65 70 75 80
Cys Leu Glu Asn Asn Asn Gln Asn Leu Trp Glu Cys Arg Lys Pro Glu
85 90 95
Met Glu Leu Asn Ser Cys Val Phe Glu Lys Leu Val Arg Pro Arg Arg
100 105 110
Val Phe Gly
115

<210> 24634
<211> 110
<212> PRT
<213> A.fumigatus

<400> 24634
Phe Leu Pro Arg Gly Ala Asp Gln Ser Pro Arg Phe Asn Gln His Val
1 5 10 15
Leu Val Asp Thr Thr Pro Met Pro Ser Asp Ile Pro Lys Val Glu Glu
20 25 30
Ile Gly Ala Thr Ser Ala Pro Leu Leu Ser Ala Ser Tyr Phe Ile Gly
35 40 45
Asp Arg Cys Lys Ala Phe Asn Asp Asp Phe Met Lys Cys Lys Ala Glu
50 55 60
Ala Asn Gly Arg Gly Glu Leu Glu Cys Leu Lys Lys Gly Arg Lys Val
65 70 75 80
Thr Arg Cys Ala Ala Ser Val Tyr Val Phe Leu Phe Arg His Ala Cys
85 90 95
Val Gln Ile Leu Cys Gly Leu Cys Arg Ser Arg Phe Arg Gly
100 105 110

<210> 24635
<211> 82
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24635
Met Glu Asn Ile Arg Asn Ser Thr Gln Tyr Val Leu Glu Lys Xaa Lys
1 5 10 15
Ser Met Pro Thr Val Pro Val Asn Ser Gln Pro Tyr Leu Ile Pro Gly
20 25 30
Asn Arg Pro Thr Glu Leu Asn Leu Gly Gln Ser Gly Leu Pro Leu Pro
35 40 45

```
Asn Thr Pro Thr Leu Lys Leu Pro Phe Gln Ile Leu Arg Ser Pro Leu
    50                  55                  60
Glu Ser Pro Ser Arg Leu Arg Thr Met Pro Gln Glu Trp His Asp Ser
65                  70                  75                  80
Lys Lys
```

<210> 24636
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24636

```
Ile Val Leu Gly Tyr Asp Arg Ser Trp Thr Ala Arg Thr Gly Gly Ser
1               5                   10                  15
Gly Gln His Asp Cys His Ala Ala Ala Ala Met Gly Trp Asp Tyr Gly
            20                  25                  30
Met Leu Leu His His Val Leu Glu Gly Ala Lys Pro Leu Val Gln Phe
        35                  40                  45
Leu Asp His Tyr Cys Pro Phe Ser Ile Gly Pro Leu Ala Ile Lys
    50                  55                  60
```

<210> 24637
<211> 162
<212> PRT
<213> A.fumigatus

<400> 24637

```
Asn His Ser Gly Ser Ser Arg Leu Cys Arg Arg Leu Ile Glu Glu Gly
1               5                   10                  15
Lys Val Ile Trp Gln Glu Trp Gln Gly Leu Ala Ile Ser Gln Asp Arg
            20                  25                  30
Val Phe Glu Thr Val Ser Ile Ala Leu Val Gly Lys Tyr Thr Thr Leu
        35                  40                  45
His Asp Ser Tyr Met Ser Val Ser Lys Ala Leu Glu His Ser Ala Met
    50                  55                  60
His Cys Lys Lys Lys Leu Asp Leu Ile Trp Val Glu Ser Ser His Leu
65                  70                  75                  80
Glu Asp Glu His Lys Glu Thr Asn Pro Ala Glu Tyr Tyr Lys Ala Trp
                85                  90                  95
His Ser Val Ser Thr Ala Asn Gly Ile Leu Val Pro Val Arg Phe Ser
            100                 105                 110
Pro His Thr Leu Cys Glu Leu Thr Leu Ile Leu Cys Ser Gly Trp Phe
        115                 120                 125
Trp Arg Ala Trp Tyr Arg Gly His Asp Gln Glu Cys Pro Met Gly Ser
    130                 135                 140
Tyr Glu Gln Cys Ser Leu Pro Gly Cys Val Pro Gly Tyr Ala Gly Gly
145                 150                 155                 160
Arg Tyr
```

<210> 24638
<211> 210
<212> PRT
<213> A.fumigatus

<400> 24638

```
Tyr Tyr Val Gln Gly Gly Phe Gly Glu Arg Gly Thr Glu Gly Met Ile
1               5                  10                  15
Lys Ser Ala Gln Trp Ala Arg Thr Asn Asn Val Pro Tyr Leu Gly Val
            20                  25                  30
Cys Leu Gly Met Gln Val Ala Val Ile Glu Tyr Ala Arg Asn Val Cys
        35                  40                  45
Gly Leu Thr Gly Ala Gly Ser Glu Glu Phe His Glu Asn Cys Glu His
    50                  55                  60
Ser Ala Ile Val Tyr Met Pro Glu Ile Asp Lys Thr Lys Met Gly Gly
65                  70                  75                  80
Thr Met Arg Leu Gly Lys Arg Ala Thr His Phe Gln Pro Gly Thr Glu
                85                  90                  95
Trp Ser Arg Leu Arg Lys Leu Tyr Gly Asp Lys Gln Glu Ile Trp Glu
            100                 105                 110
Arg His Arg His Arg Tyr Glu Val Asn Pro Glu Leu Val Asp Gln Leu
        115                 120                 125
Glu Gln Ala Gly Leu Ser Phe Val Gly Lys Asp Asp Ser Gly Lys Arg
    130                 135                 140
Met Glu Ile Ile Glu Leu Lys Asp His Lys Trp Phe Val Gly Val Gln
145                 150                 155                 160
Phe His Pro Glu Tyr Leu Ser Arg Val Leu Ala Pro Ser Lys Thr Phe
                165                 170                 175
Leu Gly Phe Phe Ala Ala Ser Ala Gly Cys Leu Glu Glu Ile Thr Glu
            180                 185                 190
Val Phe Lys Asp Arg His Asp Leu Ser His Arg Glu Leu Lys Ile Pro
        195                 200                 205
Leu His
    210
```

<210> 24639
<211> 291
<212> PRT
<213> A.fumigatus

<400> 24639

```
Asp Ser Thr Gln Lys Pro Gln Thr Pro Asn Val Gln Asn Phe Glu Ile
1               5                  10                  15
Leu Pro Gln Ser Lys Gln Glu Pro Gly Thr Ile Ala Thr Ser Arg Pro
            20                  25                  30
Pro Pro Gly Gly Val Ser Ser Pro Ser Ile Ala Val Val Leu Pro Pro
        35                  40                  45
Pro Gly Ala Ala Ser Thr Pro His Gln Pro Asn Ser Ser Pro Ala Val
    50                  55                  60
Arg Pro Met Asn Gln Pro Pro Pro Asn His Thr Pro Ala Pro Arg Ser
65                  70                  75                  80
Ser Gly Gln Tyr Pro Pro Phe Gln Ser Gln Ser Pro Ser Ile Gln Ser
                85                  90                  95
Arg Pro Gln Gln His Gly Ser Pro Ala Tyr Tyr Arg Pro Ala Pro Pro
            100                 105                 110
Pro Pro Pro Arg Val Gly Tyr Lys Ser Val Val Phe Glu Phe Thr Ser
        115                 120                 125
Pro Leu Thr Pro Tyr Gly Ser Ser Thr Ser Gly His Ala Gly Ser Gly
    130                 135                 140
Asp Arg Tyr Leu Phe Pro Glu Tyr Ser Ile Leu Glu Trp Leu Pro Gly
145                 150                 155                 160
```

```
Gly Asn Thr Val Leu Ala Ser Phe Leu Leu Ile Arg Lys Val Asp Pro
                165                 170                 175
Asn Thr Pro Phe Pro Ile Glu Asp Ala Ser Val Thr Ser Thr Ser Arg
            180                 185                 190
Ala Lys Gly Lys Ser Thr Ser Lys Ser Lys Lys Ala Asp Lys Asn Lys
        195                 200                 205
Asp Lys Ala Ala Glu Gly Gly Glu Gly Lys Glu Lys Asp Lys Lys Glu
    210                 215                 220
Asn Gly Lys Ser Asp Glu Gly Ala Lys Glu Lys Asp Asn Ala Gln Leu
225                 230                 235                 240
Ser Asn Asn Gln Asp Ser Ala Thr Ala Ala Thr Asp Ser Ala Lys Gly
                245                 250                 255
Ser Asp Asn Lys Gly Asn Gln Lys Ala Gln Ala Glu Thr Pro Ser Lys
            260                 265                 270
Pro Asp Ser Asn Lys Ser Lys Val Phe Thr Arg Gly Ser Lys Asp Pro
        275                 280                 285
Arg Tyr Ala
    290
```

<210> 24640
<211> 84
<212> PRT
<213> A.fumigatus

<400> 24640

```
Ile Leu Leu Ala Arg Ile Arg Arg Pro Pro Val Val Lys Thr Ser Asn
1               5                   10                  15
Gly Leu Arg Leu Asn Ser Pro Pro Cys Lys Lys Phe Leu Gly Arg Leu
            20                  25                  30
Val Tyr Lys Val His Ser Phe Phe Thr Asp Cys Arg Asp Gly Ala Thr
        35                  40                  45
Glu Ala Tyr Phe Ala Ser Leu His Ser Gln Trp Leu Thr Ser Cys Asn
    50                  55                  60
Thr Gln Thr Phe Gly Leu Phe Tyr Leu Gly Ser Ser Ser Leu Ser Gly
65                  70                  75                  80
Val Gly Ser Asn
```

<210> 24641
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24641

```
Leu Ser Ser Ile Ala Ala Asp Ser Arg Gln Ala Arg Ala Ser Gln Val
1               5                   10                  15
Lys Gln Ser Glu Gly Leu Cys Val Ala Ala Gly Gln Pro Leu Ala Val
            20                  25                  30
Gln Gly Ser Lys Val Ser Leu Cys Gly Ser Val Ser Thr Ile Arg Lys
        35                  40                  45
Glu Thr Val Tyr Phe Val His Gln Ser Ala Lys Glu Phe Leu Thr Gly
    50                  55                  60
Arg Ala Ile Gln Pro
65
```

<210> 24642

<211> 92
<212> PRT
<213> A.fumigatus

<400> 24642
Trp Tyr Pro Glu Ile Glu His His Ala Pro Asn Val Pro Ile Ile Leu
1 5 10 15
Val Gly Thr Lys Leu Asp Leu Arg Asp Asp Pro Ala Thr Ala Glu Ser
20 25 30
Leu Arg Gln Arg Lys Met Glu Pro Val Ser Tyr Glu Gln Ala Leu Ala
35 40 45
Val Ala Lys Glu Ile Arg Ala His Lys Tyr Leu Glu Cys Ser Ala Leu
50 55 60
Thr Gln Arg Asn Leu Lys Ser Val Phe Asp Glu Ala Ile Arg Tyr Val
65 70 75 80
Trp His Cys Pro Arg Ser Asp Val Val Pro Arg Cys
85 90

<210> 24643
<211> 117
<212> PRT
<213> A.fumigatus

<400> 24643
Asn Met Ile Asp Met Pro Pro His Leu Val Tyr Asp Gln Cys Ile Pro
1 5 10 15
Arg Arg Ile His Pro Tyr Arg Val Arg Gly Phe Leu Pro Cys Ala Asp
20 25 30
Ser His Ser Glu Pro Val Val Asp Ser Thr Ser Arg Phe Asp Asn Tyr
35 40 45
Thr Ala Ser Val Met Val Asp Gly Arg Pro Ile Ser Leu Gly Leu Trp
50 55 60
Asp Thr Ala Gly Gln Glu Asp Tyr Asp Arg Leu Arg Pro Leu Ser Tyr
65 70 75 80
Pro Gln Thr Asp Val Phe Leu Ile Cys Phe Ser Ile Val Ser Pro Pro
85 90 95
Ser Phe Asp Asn Val Lys Ala Lys Val Leu Asn Ser Pro Val Ser Cys
100 105 110
Cys Ala Leu Thr Ala
115

<210> 24644
<211> 81
<212> PRT
<213> A.fumigatus

<400> 24644
Pro Asp Glu Val Glu Asp Phe Ile Thr Asn Lys Tyr Cys Arg Ala Gly
1 5 10 15
Gly Gly Gly Lys Ser Glu His Arg Arg Ala Lys Ile Glu Ala Lys Asn
20 25 30
Lys Lys Leu Asn Glu Glu Arg Gln Arg Gln Ala Lys Asn Ile Gln Lys
35 40 45
Glu Lys Thr Lys Ser Lys Asn Thr His Ser Lys Glu Asn Glu Glu Gln
50 55 60
Gly Ala Asp Gln Trp Ala Gly Ile His Pro Ser Arg Arg Ala Arg Met

65 70 75 80
Ala

<210> 24645
<211> 251
<212> PRT
<213> A.fumigatus

<400> 24645
Pro Met His Asn Leu Val Leu Gln Glu Arg Glu Gly Ile Phe Ser Ile
1 5 10 15
Ile Pro Thr Trp Tyr Glu Ser Arg Thr Lys Glu Leu His Lys Val Arg
20 25 30
Gln Glu Arg Asp Arg Leu Val Glu Ala Thr Leu Ser Ser Glu Gln Arg
35 40 45
Leu Glu Lys Gln Lys Glu Asp Asn Ile Lys Leu Lys Asp Glu Arg Ile
50 55 60
Gln Leu Arg His Glu Leu Glu Lys Ala Arg Glu Ala Leu Lys Ala Gly
65 70 75 80
Gly Gly Ser Met Ala Glu Leu Glu Arg Ala Gln Glu Glu Ile Arg Arg
85 90 95
Leu Thr Lys Ala Asn Ala Ser Leu Glu Arg Lys Ala Glu Tyr Glu Ala
100 105 110
Lys Gln Ala Glu Tyr Thr Arg Glu Gln Tyr Gln Thr Ala Ser Asn Val
115 120 125
Ala Ala Gln Ser Gly Asn Glu Ile Leu Gln Leu Lys Glu Glu Asn Glu
130 135 140
Ser Leu Lys Arg Lys Val Ala Gly Asp Ala Ser Arg Leu Arg Glu Leu
145 150 155 160
Asn Ile Gln Ser Asp Glu Gln Arg His Leu Ala Arg Val Lys Glu Leu
165 170 175
Glu Ala Met Leu Ala Ser Arg Glu Asp Leu Leu Arg Arg Lys Glu Asp
180 185 190
Glu Leu Arg Glu Phe Arg Lys Asn Arg Pro Ser Thr Arg Ser Thr Ser
195 200 205
Thr Gln Pro Arg Ser Pro Lys Trp Thr Ala Ala Asn Ser Arg Pro Thr
210 215 220
Ser Pro Gly Ile Asn Asn His Asn Gly Ser Gly Tyr Ser Gly Arg Gly
225 230 235 240
Ser Gly Leu Arg Phe Ser Ser Glu Val Pro Leu
245 250

<210> 24646
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24646
Phe Ile Pro Ala Phe His Leu Pro Ile Asn Leu Ile Ser His Thr Ile
1 5 10 15
Tyr Leu Ala Ile Phe Ser Asn Ser Thr Arg Leu Ala Tyr Tyr Ala Ile
20 25 30
Phe Ile Pro Thr Ser Asn Ile Gly Lys Ile Gly Lys Leu Ile Tyr Ile
35 40 45
Thr Arg Thr Thr Thr Thr Gly Phe Phe Leu Lys Phe Lys Tyr Asn Tyr

```
    50                  55                  60
Asn Phe Asn Leu Thr Gln Arg Lys Tyr
65                  70

<210> 24647
<211> 237
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (213),(224)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24647
Arg Thr Lys His Gly Arg Arg Glu Gln Arg Lys Cys Arg Ala His Thr
1               5                  10                  15
Arg Ala Gln Asp Cys Leu Arg Cys Glu Pro Ala Gly Arg Val Ala Glu
            20                  25                  30
Ile Ala Ile Cys Glu Ile Ala Gly Gln Asp Gly Ala Lys Leu Gly Cys
        35                  40                  45
Cys Val Ala Asp Arg His Glu Gly Asp Gly Arg Asp His Pro Val Asp
    50                  55                  60
Gly Cys Asp Cys Arg Gly Asn Gly Pro Gly Glu Glu Pro Gln Ala Gln
65                  70                  75                  80
Gly Glu Asp Arg Gly Ala Asp His Glu Ala Glu Lys Phe Val Phe Gly
                85                  90                  95
Thr Gln Gly Glu Ala Leu Ala Val Val Gly Asp Asp Glu Phe Val Val
            100                 105                 110
Val Asp Ala Gly Glu His Ala Lys His Ala Ala Glu Ala Lys Ala Glu
        115                 120                 125
Glu Gly Glu Thr Gly Val Gly Gly Gly His Ala Glu Gly Leu Val Asp
    130                 135                 140
Trp Trp Glu Gly Leu Gly Glu His Val Asp Glu Gly Glu Arg Asp Gly
145                 150                 155                 160
Ala Asp Asp Gly Tyr Gln Glu Asp Asn Gly Phe Gly Glu Glu Glu Val
                165                 170                 175
Asp Gly Ala Lys Glu Gly His Gly Glu Glu Gly Ala Glu Val Arg Asp
            180                 185                 190
Thr Val Trp Val Glu Ala Leu His His Arg Leu Gly Leu Leu Ala Glu
        195                 200                 205
Ala Leu His Arg Xaa Gln Asp Phe Leu Ser Lys Lys Lys Gly Ser Xaa
    210                 215                 220
Glu Ser Arg Ile Pro Asn Arg Lys His Ala Ile Ser Pro
225                 230                 235

<210> 24648
<211> 280
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(13)
<223> Identity of amino acid sequences at the above locations are unknown.
```

<400> 24648
Phe Xaa Thr Ser Leu Leu Leu Gly Gln Glu Val Leu Xaa Pro Val Gln
1 5 10 15
Gly Leu Gly Lys Glu Thr Gln Thr Val Val Gln Ser Leu Asn Pro Asp
20 25 30
Arg Ile Pro Asp Leu Arg Thr Phe Phe Thr Met Ala Leu Phe Arg Pro
35 40 45
Ile Tyr Leu Phe Phe Thr Glu Pro Ile Ile Phe Leu Val Ser Ile Ile
50 55 60
Ser Ala Ile Pro Phe Thr Leu Ile Tyr Met Phe Thr Glu Ala Leu Pro
65 70 75 80
Pro Ile Tyr Gln Ser Phe Gly Met Thr Pro Thr His Ser Cys Leu Pro
85 90 95
Phe Leu Gly Leu Gly Leu Gly Cys Met Leu Gly Met Leu Thr Arg Ile
100 105 110
His Asp Tyr Lys Leu Ile Val Ser His His Arg Gln Arg Leu Pro Leu
115 120 125
Arg Pro Glu Asp Lys Leu Leu Gly Phe Met Ile Gly Ser Pro Val Phe
130 135 140
Ala Leu Gly Leu Trp Leu Phe Ala Trp Thr Ile Pro Pro Ala Ile Thr
145 150 155 160
Ser Val His Trp Met Val Ser Thr Val Ala Leu Val Ala Ile Gly Tyr
165 170 175
Ala Ala Thr Glu Phe Gly Ser Val Leu Thr Gly Tyr Leu Ala Asp Ser
180 185 190
Tyr Leu Ser Tyr Ala Ala Ser Gly Phe Ala Ala Gln Thr Ile Leu Arg
195 200 205
Thr Ser Met Ser Ala Ala Phe Pro Leu Phe Ala Pro Ala Met Phe Gly
210 215 220
Ser Leu Gly Ala Asn Val Ala Val Ser Val Leu Ala Ala Ile Ala Thr
225 230 235 240
Val Phe Cys Leu Val Pro Pro Leu Phe Ala Arg Phe Gly Glu Arg Ile
245 250 255
Arg Ala Lys Ser Arg Phe Ala Arg Tyr Ser Leu Asp Val Tyr Asn Arg
260 265 270
Ile Thr Val Glu Glu Glu Gly Phe
275 280

<210> 24649
<211> 155
<212> PRT
<213> A.fumigatus

<400> 24649
Pro Pro His Leu Leu His His Gly Pro Leu Ser Pro His Leu Pro Leu
1 5 10 15
Leu His Arg Thr His Tyr Leu Pro Gly Ile His His Gln Arg His Pro
20 25 30
Phe His Pro His Leu His Val His Arg Gly Pro Pro Thr Asn Leu Pro
35 40 45
Ile Leu Arg His Asp Pro His Pro Leu Leu Ser Pro Leu Pro Arg Pro
50 55 60
Trp Pro Arg Leu His Ala Trp His Ala His Pro His Pro Arg Leu Gln
65 70 75 80
Thr His Arg Leu Pro Pro Pro Pro Ala Pro Pro Pro Ala Ser Arg Arg
85 90 95

```
Gln Thr Ser Arg Leu His Asp Arg Leu Pro Gly Leu Arg Pro Gly Pro
            100                 105                 110
Val Ala Leu Arg Leu Asp His Ser Pro Gly Asn His Ile Arg Pro Leu
        115                 120                 125
Asp Gly Leu Asp Arg Arg Pro Arg Gly Asp Arg Leu Arg Ser Asn Arg
    130                 135                 140
Val Trp Leu Arg Pro Asp Arg Leu Ser Arg Arg
145                 150                 155
```

<210> 24650
<211> 76
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (33)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24650

```
Tyr Arg Cys Tyr Ser Pro Met Ala Phe Ile Thr Val Val Val Glu Leu
1               5                   10                  15
Tyr Ser Ser Gln Ala Met Leu His Met Phe Ala Phe Ile Ile Ser Cys
            20                  25                  30
Xaa Tyr Leu Ala Asn Leu Glu Arg Leu Tyr Asp Gln Thr Gln Phe Val
        35                  40                  45
Val Asn Thr Arg Asp Gly Ser Thr Gly Lys Phe His Ile Ala Ala Ala
    50                  55                  60
Gly Gly His Asn Thr Arg Glu Val Leu Ser Pro Pro
65                  70                  75
```

<210> 24651
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24651

```
Ser Glu Gly Phe Ser Lys Ser Leu Phe Ile Leu Ala Ile Ala Thr Gly
1               5                   10                  15
Glu Asp Asp Asn Ser Ser Pro Ser Pro Thr Asp Leu Asp Thr Lys Leu
            20                  25                  30
Gln Arg Lys Met Leu Cys Ser Ser Ser Ile Arg Thr Leu Met Gly Lys
        35                  40                  45
Ile Asn Tyr Pro Lys Lys Thr Gly Trp Arg Asp Ser Asp
    50                  55                  60
```

<210> 24652
<211> 152
<212> PRT
<213> A.fumigatus

<400> 24652

```
Thr Trp Val Phe Tyr Phe Gly Thr Pro Phe Phe Gln Lys Leu Gly Lys
1               5                   10                  15
Pro Ser Arg Thr Pro Phe Leu Ile Ser Met Phe Pro Thr Ile Val Asn
            20                  25                  30
```

```
Val Cys Ser Thr Pro Ile Ser Phe Tyr Thr Met Glu Lys Leu Gly Arg
        35                  40                  45
Arg Thr Leu Leu Leu Trp Gly Ala Leu Gly Met Val Val Cys Gln Phe
    50                  55                  60
Ile Val Ala Ile Val Gly Thr Val Asp Gly Ser Asn Lys Ser Ala Val
65                  70                  75                  80
Ser Ala Glu Ile Ser Phe Ile Cys Ile Tyr Ile Phe Phe Phe Ala Ser
                85                  90                  95
Thr Trp Gly Pro Gly Ala Trp Val Val Ile Gly Glu Ile Tyr Pro Leu
            100                 105                 110
Pro Ile Arg Ser Arg Gly Val Ala Leu Ser Thr Ala Ser Asn Trp Leu
        115                 120                 125
Trp Asn Cys Val Ser Phe Ser Ser Thr Arg Met Pro Lys Lys Lys Lys
    130                 135                 140
Lys Lys Lys Lys Lys Lys Lys Lys
145                 150
```

<210> 24653
<211> 95
<212> PRT
<213> A.fumigatus

<400> 24653

```
Ile Ile Ala Val Ile Thr Pro Tyr Met Val Asp Thr Asp Lys Gly Asn
1               5                   10                  15
Leu Lys Ala Lys Val Phe Phe Ile Trp Gly Ser Leu Cys Ala Cys Ala
            20                  25                  30
Phe Val Tyr Thr Tyr Phe Leu Ile Pro Glu Thr Lys Gly Leu Thr Leu
        35                  40                  45
Glu Gln Val Asp Lys Met Met Glu Glu Thr Thr Pro Arg Thr Ser Ala
    50                  55                  60
Lys Trp Lys Pro His Gly Thr Phe Ala Ala Glu Met Gly Leu Thr Asp
65                  70                  75                  80
Lys Asp Met Ala Glu Lys Thr Ala Glu Val Val His Gln Glu Val
                85                  90                  95
```

<210> 24654
<211> 250
<212> PRT
<213> A.fumigatus

<400> 24654

```
Arg Cys Thr Thr Ser Pro Val Tyr Gly Val Ile Phe Leu Phe Lys Trp
1               5                   10                  15
Ile Arg Glu Pro Pro Ser Thr Asn Thr Thr Gln Pro Leu Asp Gly Thr
            20                  25                  30
Tyr Ile Thr Ser Leu Pro Glu Asn Leu Phe Phe Ala Ala Gln Thr Ile
        35                  40                  45
Gln Asn Ala Cys Gly Thr Gln Ala Ile Leu Ser Val Ile Leu Asn Gln
    50                  55                  60
Asp Ser Pro Ala Ser Thr Pro Tyr Pro Ile Asn Ile Gly Pro Glu Leu
65                  70                  75                  80
Arg Ser Phe Lys Glu Phe Thr Ala Gly Phe Pro Pro Asp Leu Arg Gly
                85                  90                  95
Glu Ala Leu Ser Asn Ser Glu Thr Ile Arg Thr Ala His Asn Ala Phe
            100                 105                 110
```

```
Ala Arg Ala Ser Pro Phe Val Asp Glu Thr Val Arg Thr Thr Gln Asp
        115                 120                 125
Glu Glu Ala Asp Val Tyr His Phe Ile Ala Tyr Thr Pro Val Asn Gly
    130                 135                 140
Val Leu Tyr Glu Leu Asp Gly Leu Gln Pro Tyr Pro Ile Ser His Gly
145                 150                 155                 160
Glu Cys Asn Ala Glu Thr Phe Pro Glu Lys Val Ile Glu Val Leu Gln
                165                 170                 175
Arg Arg Ile Ala Arg Tyr Pro Glu Gly Glu Thr Arg Phe Asn Leu Met
            180                 185                 190
Ala Val Val Arg Asp Leu Arg Phe Arg Ala Arg Glu Thr Gly Asp Val
        195                 200                 205
Glu Leu Leu Glu Arg Glu Ala Arg Lys Arg Arg Ala Trp Ala Trp Glu
    210                 215                 220
Asn Thr Leu Arg Arg Trp Asn Phe Val Gly Phe Ile Gly Glu Met Ser
225                 230                 235                 240
Ser Pro Arg Gly Trp Lys Val Pro Arg Cys
                245                 250
```

<210> 24655
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24655

```
Gln Met Ser Gln Asp Glu Ala Lys Ser Leu Leu Leu Ala Asn Thr Asp
1               5                   10                  15
Arg Ala Phe Lys Ser Gly Ala Phe Gly Leu Pro Trp Phe Glu Cys Thr
            20                  25                  30
Asn Pro Lys Gly Glu Thr Glu Gly Phe Trp Gly Ile Asp His Val Gly
        35                  40                  45
Gln Val Ala Glu Phe Leu Gly Leu Asp Arg Ser Leu Asp Gln Gly Phe
    50                  55                  60
Arg Ala Val Leu
65
```

<210> 24656
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (64),(74)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24656

```
Asn Ser Pro Thr His Pro Gly Phe Pro Ser Arg Ala Glu Lys Pro Cys
1               5                   10                  15
Ser Ile Pro Leu Phe Leu Leu Pro Arg Ser Phe Pro Lys Arg Ser Gly
            20                  25                  30
Gly Ser Val Trp Leu His Lys Thr Ser Ser Glu Ile Ser Gly Ala Asp
        35                  40                  45
Asn Ser Leu Leu Ile Thr Ser Gln His Tyr Leu Gly Leu Val Ser Xaa
    50                  55                  60
Arg Ser Glu Arg Leu Tyr Val Pro Gln Xaa
```

65 70

<210> 24657
<211> 178
<212> PRT
<213> A.fumigatus

<400> 24657
Ile Leu Leu Ile Pro Gly Ser Ile Cys Phe Val Phe Ser Ile Met Met
1 5 10 15
Thr Ser Leu Cys Arg Lys Tyr Tyr Gln Ala Ile Leu Ala Gln Gly Ile
20 25 30
Leu Gly Gly Leu Ser Thr Gly Val Ile Phe Thr Pro Ser Leu Ala Ala
35 40 45
Ile Gly His Tyr Phe Gln Lys Arg Arg Gly Leu Ala Met Gly Ile Cys
50 55 60
Ala Ala Gly Ser Ser Leu Gly Gly Leu Leu Phe Pro Ile Ala Leu Arg
65 70 75 80
His Ala Leu Tyr Ser Arg Arg Leu Gly Phe Gly Trp Gly Val Arg Val
85 90 95
Val Gly Phe Val Val Leu Gly Leu Leu Ala Ile Ala Cys Thr Val Val
100 105 110
Arg Glu Arg Leu Pro Pro Arg Lys Gly Arg Phe Phe Leu Leu Arg Ala
115 120 125
Phe Val Gln Pro Ser Tyr Ser Phe Leu Val Ala Ala Val Phe Leu Ser
130 135 140
Phe Trp Gly Met Trp Val Pro Cys Leu Phe Ile Val Ser Phe Ala Ile
145 150 155 160
Gln Lys Lys His Met Gly Gly Asn Leu Ala Phe Tyr Thr Leu Ser Ile
165 170 175
Val Cys

<210> 24658
<211> 133
<212> PRT
<213> A.fumigatus

<400> 24658
Leu Ser Ala Ile Gln Phe Gln Thr Leu Cys Arg Leu Pro Leu Pro Lys
1 5 10 15
Ser Asp Asp Trp Pro Leu Pro Pro Pro Arg Arg Met Cys Trp Thr Gly
20 25 30
Leu Asn Lys Glu Met Arg Asp Ser Asp Val Ala Tyr Tyr Gly Arg Leu
35 40 45
Phe Asn Gln Trp Cys His Gly Thr Gly Met Pro Thr Ile Asp His Pro
50 55 60
Ala Asp Glu Tyr Phe Val Gln Val Ala Arg Phe Asp Pro Ser Lys Gly
65 70 75 80
Thr Ile Asp Val Leu Asp Ser Tyr Pro Met Phe Arg Thr His Leu Thr
85 90 95
Gln Thr Lys Pro Asp Arg Arg Pro Gln Asn Glu Ser Ser Ala Asp Met
100 105 110
Gly Leu Thr Met Ile Gln Thr Gln Val Lys Cys Pro Thr Trp Leu Trp
115 120 125
Ile Leu Phe Met Lys

130

<210> 24659
<211> 112
<212> PRT
<213> A.fumigatus

<400> 24659
Ser Gly Arg Arg Arg Cys His Arg Ser His Gln Arg Thr Ser Ser Met
1 5 10 15
Pro Asn Leu Ala Arg Asn Gln Cys Val Leu Ile Phe Ser His Leu Pro
20 25 30
Gln Ser Ser Glu Gly Glu Ser Phe Asp Ala Phe Asn Leu Gly Thr Ile
35 40 45
Glu Ser Thr Gly Thr Pro Glu Leu Gln Glu Cys Asp Thr Phe Thr Ser
50 55 60
Ser Ala Leu Ser Thr Asp Thr Tyr Lys Ser Lys Met Gln Ser Leu Arg
65 70 75 80
Asn Pro Ser Ala Ile Trp His Phe Ser Leu Leu Pro Lys Ser Tyr Ser
85 90 95
Asn Ala Ala Gln Ala Thr Ile Ala Phe Ser Thr Pro Tyr Pro His Glu
100 105 110

<210> 24660
<211> 157
<212> PRT
<213> A.fumigatus

<400> 24660
Ile Leu Gln Lys Cys Ser Gln Ser Ile Gly Val Ser Phe Ile Asn Pro
1 5 10 15
Leu Ile Leu Ile Phe Thr Val Gln Arg His Gln Ala Ala Ile Ala Thr
20 25 30
Ser Ile Thr Met Thr Gly Phe Asp Leu Lys Asn Pro Met Lys Glu Ser
35 40 45
Val Asn Val Ser Val Met Ser Thr Asp Val Glu Lys Pro Pro Pro Gln
50 55 60
Leu Cys Gln Asp Ala Ser His Leu Pro Phe Ala Ala Val Pro Lys Arg
65 70 75 80
Lys Pro Val Pro Val Gly Ala Thr Lys Ala Ser Ser Asp Ala Gln Ala
85 90 95
Ala Ile Ala Thr Lys Glu Pro Ser Ala Tyr Leu Pro Thr Lys Gly Ala
100 105 110
Trp Trp Asn Leu Asn Arg Asn Trp Gln Gln Phe Ser Arg Lys Lys Arg
115 120 125
Val Val Ile Ala Ala Ile Ala Val Ala Val Val Cys Leu Leu Ala Leu
130 135 140
Val Ile Gly Leu Ala Val Gly Leu Thr Arg Gly Lys Gly
145 150 155

<210> 24661
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24661

```
Ser His Gly Arg Val His Tyr Ser Val Leu Thr Asp Pro Leu His Gly
1               5                  10                  15
His Gly Leu Arg Gly Ala Ser Phe Ser Leu Leu Leu Ser Ser Phe Tyr
            20                  25                  30
Ser Pro Val Ala Ile Pro His Leu Ala Tyr Leu Phe Gly Thr Leu Val
        35                  40                  45
Ser Asn Phe Glu Ser Met Leu Ile Thr Val Ala His Val Ser Asp Tyr
    50                  55                  60
Asp Ile Ala Tyr Tyr Ser Ser Ile Ile Ser Thr Gly Lys Ala Asp Arg
65                  70                  75                  80
Arg Met Thr Leu Phe Ala Thr Val Cys Leu Arg Thr Arg Ile
                85                  90
```

<210> 24662
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24662

```
Arg Leu Asn Asn Leu Glu Arg Gln Thr Ser Val Pro Lys Val Tyr Val
1               5                  10                  15
Ile Leu Gly Leu Val Gly Ile Tyr Thr Phe Leu Val Phe Phe Asn Ile
            20                  25                  30
Ala Gly Glu Phe Leu Val Asn Phe Ala Gly Phe Leu Ile Pro Gly Tyr
        35                  40                  45
Tyr Ser Leu Asn Ala Leu Phe Thr Ser Gly Lys Ala Asp Asp Thr Gln
    50                  55                  60
Val Ser Leu Phe Pro Leu Asn
65                  70
```

<210> 24663
<211> 67
<212> PRT
<213> A.fumigatus

<400> 24663

```
Ile Lys Ala Leu Leu Asn Gly Phe Phe Phe Pro Thr Ile Gly Arg His
1               5                  10                  15
Phe Pro Glu Val Cys Ala Trp Glu Phe Gln Lys Val Ser Lys Glu Gln
            20                  25                  30
Leu Ala Asn Thr Pro Ser Phe Thr Asp Ile Ser Arg Ser Ser Phe Gly
        35                  40                  45
Ser Ile Pro Trp Asp Glu Asp Ser Asp Pro Arg Phe Asp Asp Asn Leu
    50                  55                  60
Glu Ile Ile
65
```

<210> 24664
<211> 211
<212> PRT
<213> A.fumigatus

<400> 24664

```
Thr Ile Ala Asp Arg Lys Ala Ala Ser Lys Asp Val Lys Arg Met Phe
1               5                  10                  15
Arg Arg Glu Gln Glu Ile Ser Asn Ser Asp Leu Asp Pro Ala Ala Lys
```

```
            20                  25                  30
Lys Glu Lys Leu Ala Ala Leu Ala Gly Lys Ile His Ala Ala Gln Val
        35                  40                  45
Asn His Asn Tyr Thr Ile Tyr Tyr Pro Leu Thr Gln Lys Tyr Val Ala
    50                  55                  60
Leu Tyr Ala Glu Gln Lys Lys Lys Lys Lys Glu Ser Ser Ala Gln Ser
65                  70                  75                  80
Glu Lys Pro Ser Glu Pro Glu Ala Glu Val Ala Ser Lys Leu Ile Tyr
                85                  90                  95
Asp Thr Thr Gly Glu Arg Pro Pro Met Trp Arg Val Val Glu Lys Cys
            100                 105                 110
Met Glu Asp Gly Thr Leu Asp Leu Leu Arg Glu Gly Lys Leu Asp Gly
        115                 120                 125
Ser Glu Gly Glu Lys Ser Ser Gln Ala Pro Glu Gln Lys Lys Ser Lys
    130                 135                 140
Lys Ser Thr Asp Asp Asp Gln Tyr Ala Arg Asn Lys Ser Ser Thr Glu
145                 150                 155                 160
Lys Val Ser Asp Lys Pro Ser Gly Lys Ser Arg Lys Ser Gly Gly Lys
                165                 170                 175
Gln Asp Arg Lys Pro Lys Arg Ser Ala Ala Met Glu Gly Ala Tyr Trp
            180                 185                 190
Ser Ala Asn Glu His Asp Asp Asp Asp Asn Glu Ser Asp Gly Gly Phe
        195                 200                 205
Phe Glu Ala
    210
```

<210> 24665
<211> 255
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (214),(233),(235),(242),(244),(250)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24665

```
Thr Gln Arg Phe Thr Phe Tyr Thr Ser Phe Phe Ala Ile Tyr Thr Val
1               5                   10                  15
Thr Val Ser Gln Ile Trp Val Gly Phe Gly Gln Ile Arg Arg Gln Ser
            20                  25                  30
Gln Arg Leu Trp His Gln Thr Leu Trp Arg Pro Pro Met Arg Pro Leu
        35                  40                  45
Gln Leu Val Gln Asp Pro Val Gly Ile Ser His Arg Asn Ser Phe Ile
    50                  55                  60
Asp Val Val Gln Pro Gly Cys Pro Met His Ala Ser Asn Ala Pro Pro
65                  70                  75                  80
Ala Leu Ser Ser Leu Ser Ala Arg Ser Asp Thr Ser Ser Ser Cys Pro
                85                  90                  95
Val Arg Ser Pro Asp Ser Pro Phe Tyr Val Arg Pro Lys Thr Thr Met
            100                 105                 110
Thr Asp Ser Pro Gln Pro Pro Ala Pro Glu Thr Lys Ser Ala Leu Ser
        115                 120                 125
Lys Leu Asn Pro Leu Asn Tyr Met Phe Ser Ser Ile Ser Gln Glu Arg
    130                 135                 140
Ala Pro Asn Gln Thr Val Asp Leu Pro Val Glu Arg Glu Pro Ser Ser
```

```
145                 150                 155                 160
Ile Pro Arg Gly Asp Ala Asp Gly Asn Trp Glu Tyr Pro Ser Pro Gln
                165                 170                 175
Gln Met Tyr Asn Ala Met Leu Arg Lys Gly Tyr Thr Asp Thr Pro Gln
            180                 185                 190
Asp Ala Val Glu Ala Met Val Ala Val His Asn Phe Leu Asn Glu Arg
        195                 200                 205
Cys Trp Ala Glu Ile Xaa Gly Trp Glu Arg Leu Phe Ala Lys Gly Leu
    210                 215                 220
Gly Gln Ala Trp Glu Lys Cys Arg Xaa Gly Xaa Gln Gly Ile Ala Arg
225                 230                 235                 240
Lys Xaa Met Xaa Gln Glu Met Asn Arg Xaa Cys Gly Ser Ser Leu
                245                 250                 255
```

<210> 24666
<211> 141
<212> PRT
<213> A.fumigatus

<400> 24666

```
Lys Leu Gly Ser Phe Gln Pro Arg Gly Glu Asp Met Leu Leu Ala Gly
1               5                   10                  15
Met Gly Ser Thr Ser Ser Arg Asp Pro Ser Leu Asn Arg Gln Arg Asn
            20                  25                  30
Arg Arg Glu Ser Gly Ser Thr Ala Pro Thr Thr Thr Asn Ile Thr Asp
        35                  40                  45
Arg Thr His Asn Thr Val Pro Thr Ser Ile Asp Gly Asp His Glu Thr
    50                  55                  60
Ser Met Ile Glu Gly Asn Gly Val Gly Gln Gln Leu Ser Leu Lys Asn
65                  70                  75                  80
Glu Arg Ala Leu Ser Asn Met Ser Ser Ala Ala Ala Thr Pro Leu Ser
                85                  90                  95
Glu Val Thr Ser Ala Gly Ala Tyr Gly Ser Cys Ile Ala Lys Ser Glu
            100                 105                 110
Gly Asp Ala Arg Arg Ser Lys Pro Ser Val Ser Ala Leu Glu Leu Gln
        115                 120                 125
Ile Pro Gly His Tyr Pro Pro Ala Asn His Ile Pro Ala
    130                 135                 140
```

<210> 24667
<211> 108
<212> PRT
<213> A.fumigatus

<400> 24667

```
Arg Arg Lys Phe Ser Ser Gly Ser Ser Val Asn Leu Leu Val Pro Gln
1               5                   10                  15
Asp His Phe His Leu Val Lys Gly Thr Thr Lys Glu His Asn Val Thr
            20                  25                  30
His Glu Ser Gly Met His Met Thr Leu His Phe Cys Glu Ala Cys Gly
        35                  40                  45
Cys Leu Leu Tyr Lys Thr Ala Asp Arg Lys Asp Phe Glu Gly Gly Val
    50                  55                  60
Ile Val Leu Ala Gly Thr Leu Asp Asp Pro His Ala Leu Asp Asp Ala
65                  70                  75                  80
Lys Pro Glu Ala Glu Phe Phe Val Lys Asp Arg Ala Ser Trp Trp Pro
```

```
                85                  90                  95
Ala Leu Gly Asp Val Lys Gln Leu Gln Gly Phe Asp
            100                 105

<210> 24668
<211> 71
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(31),(34),(47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24668
Arg Ser Trp Arg Cys Arg Tyr Lys Val Asn Xaa Lys Gln Lys Asn Ala
1               5                   10                  15
Ser Pro Gly Phe Ile Ile Glu Ala Asn Thr Ser Lys Ile Val Xaa Trp
            20                  25                  30
Tyr Xaa Leu Leu Leu Lys Val Gly Ala Arg Leu Ile Gly Asn Xaa Ser
        35                  40                  45
Gly Ser His Leu Arg Ser Gly Arg Gln Pro Arg Arg Met Ala Gly Leu
    50                  55                  60
Ser Met Asn Glu Gly Pro Ser
65                  70

<210> 24669
<211> 228
<212> PRT
<213> A.fumigatus

<400> 24669
Phe Gln Gln Leu Thr Leu Ile Tyr Thr Ser Ala Ser Ser Asp Gln Ala
1               5                   10                  15
Ile Asn Gln Leu Cys Asp Gln Ile His Ser Leu Asn Asn Gly Ser Thr
            20                  25                  30
Ala Ile Lys Val Gln Ala Asp Leu Arg Gln Ser Asp Ala Pro Ala Gln
        35                  40                  45
Ile Leu Ala Ala Thr Phe Asp Ala Phe Pro Asn Ala Asn Asn Lys Ile
    50                  55                  60
Asp Ile Leu Val Asn Asn Ala Gly Val Ser Leu Cys Lys Asn Leu Ala
65                  70                  75                  80
Asp Thr Thr Asp His Asp Ile Ser Ser Val Phe Asp Ile Asn Val Tyr
                85                  90                  95
Gly Leu Ile Ser Met Thr Arg Ala Val Ile Pro His Leu Arg Ala Pro
            100                 105                 110
Gly Arg Ile Ile Asn Leu Ser Ser Val Ala Ala Arg Arg Gly Ser Pro
        115                 120                 125
Gly Phe Ser Val Tyr Ser Ala Ser Lys Ala Ala Val Glu Gly Phe Thr
    130                 135                 140
Arg Ser Leu Ala Cys Glu Leu Gly Pro Val Gly Cys Thr Val Asn Ala
145                 150                 155                 160
Val Gln Pro Gly Ala Val Glu Ser Asp Met Leu Arg Arg Glu Val Pro
                165                 170                 175
Glu Gln Leu Ile Ala Tyr Ile Gln Glu Asn Thr Pro Leu Gly His Arg
            180                 185                 190
```

```
Ile Ala Leu Pro Glu Asp Thr Ala Arg Val Val Thr Phe Leu Ala Gly
        195                 200                 205
Glu Gly Ala Gly Trp Val Thr Gly Gln Ser Ile Cys Val Ser Gly Gly
    210                 215                 220
Leu His Met Asn
225
```

<210> 24670
<211> 580
<212> PRT
<213> A.fumigatus

<400> 24670

```
Pro Ile Pro His Ile Ile Trp Pro Glu Gly Leu Leu Pro Asn Met Val
1               5                  10                  15
Gly Arg Phe Gln Pro Pro Asn Ala Val Lys Thr Arg Gln Glu Phe Leu
            20                  25                  30
Pro Phe Gln Ala Gln Ala Leu Gln Arg Ile Asn Ala His Arg Arg Gly
        35                  40                  45
Gln Ser Leu Asp Gln Arg Pro Leu His Asp Gly Thr Val Ser Ile Thr
    50                  55                  60
Asn Ala Thr Ala Asn Gln Gln His Gln Ile Leu Ala Gly Gly Glu Gln
65                  70                  75                  80
His Pro Gln Phe Ser Gln Ser Ala His Phe Pro Gln His Ser Ser Pro
                85                  90                  95
Met Pro Val Met Pro Glu Cys Pro Ser Leu Thr Ser Glu Asp Leu Gln
            100                 105                 110
Ala Leu Ser Asn Ser Thr Ser Asn Ala Asn His Pro Gly Met Ala Tyr
        115                 120                 125
Met Asn Ser Ser Phe Ile Ala Met Gly Asn Pro Ser Leu Gly Leu Arg
    130                 135                 140
Pro Met Asp Asn Asn Leu Asn Leu Met Gln Gln Gln Gln Gln Gln Asn
145                 150                 155                 160
Ala His Val Ser Cys Val Asn Ser Leu Glu Gly Gln Ile Leu Asp Asn
                165                 170                 175
Gly Ala Trp Asn Phe Tyr Gln Gln Gly Gln Leu Pro Thr Thr Leu Arg
            180                 185                 190
Ser Gln Val Asn Asn Leu Ser Ala Asp Gly Arg Arg Gln Ser Val Gln
        195                 200                 205
Ser Asp Ile Thr Pro Ser Gln Arg Pro His Thr Pro Lys Gln Ala Asn
    210                 215                 220
Thr Arg Lys Leu Ser Ile Gln Ser Ser Trp Ser Phe Phe Ser Arg Pro
225                 230                 235                 240
Leu Thr Thr Asp Pro Asp Tyr Phe Pro Ile Thr Pro Ala Thr Thr Pro
                245                 250                 255
Phe Lys Lys Pro Ala Glu Leu Ala Gln Tyr Ser Thr Asp Met Gln Ser
            260                 265                 270
Thr Pro Thr Lys Glu Thr Gly Arg Ser Ala Pro Ala Ser Ala Gln Ser
        275                 280                 285
Val Tyr Met Gln Arg Ala Lys Ser Leu Gln Gly Val Ala Gly Ser Thr
    290                 295                 300
Phe Ser Asn Ser Lys Ile Glu Met Pro Ser Pro Pro Asn Thr Ala Ser
305                 310                 315                 320
Phe Glu Ile Asp Asn Phe Asp Ala Phe Ser Ser Gln Gln Gly Ser Ser
                325                 330                 335
Phe Glu Ile Ser Glu Ser Glu Asn Leu Ser Gln Ser His Tyr Ala Ser
```

```
            340                 345                 350
Ser Ser Ala Thr Ser Ser Phe Gln Ser Ser Pro Glu Leu Ala Ala Met
        355                 360                 365
Pro Ser Pro Glu Asp Asn His Glu Lys Ala His Lys Leu Pro Ile Phe
    370                 375                 380
Pro Ala Ala Ser Asn Arg Pro Ala His Arg Lys Ala Leu Ser Thr Ser
385                 390                 395                 400
Ser Ser Ser Thr Leu Thr Lys Pro Arg Leu Ser Pro Arg Val Ala Ser
                405                 410                 415
Ile Asp Ser Pro Asn Leu Asp Ala Arg Val His Ala Ser Ile Lys Glu
            420                 425                 430
Thr Gly Ile Thr Ile Asp Glu Ile Ala Ser Tyr Ile Ser Gly Pro Asp
        435                 440                 445
Pro Glu Asp Gly Lys Trp Val Cys Leu His Pro Gly Cys Glu Arg Arg
    450                 455                 460
Phe Gly Arg Lys Ala Asn Ile Lys Ser His Val Gln Thr His Leu Gly
465                 470                 475                 480
Asp Arg Gln Tyr Lys Cys Asp His Arg Asn Lys Cys Phe Val Arg Gly
                485                 490                 495
His Asp Leu Lys Arg His Ala Lys Ile His Thr Gly Asp Lys Pro Tyr
            500                 505                 510
Glu Cys Leu Cys Gly Asn Val Phe Ala Arg His Asp Ala Leu Thr Arg
        515                 520                 525
His Arg Gln Arg Gly Met Cys Ile Gly Gly Tyr Lys Gly Ile Val Arg
    530                 535                 540
Lys Thr Thr Lys Arg Gly Arg Pro Lys Lys His Arg Pro Glu Leu Glu
545                 550                 555                 560
Glu Arg Gln Asp Lys Ala Ala Lys Thr Arg Ser Ser Pro Arg Gly Trp
                565                 570                 575
Lys Asp Thr Arg
            580
```

<210> 24671
<211> 124
<212> PRT
<213> A.fumigatus

```
<400> 24671
Gln Gly Pro Val Gly Val Gly Ser Pro Leu Gly Arg Gly Phe Arg Ser
1               5                   10                  15
Ala Leu Ser Val Ala Val Glu Ile Ala Lys Glu Val Val Phe Asp Tyr
            20                  25                  30
Lys Trp Lys Lys Ala Val Ala Phe Ser Val Arg His Ser Phe Val Ala
        35                  40                  45
Ala Gly Thr Leu Phe Ile Val Phe Val Ser Arg Gly Gly Ser Asn Ala
    50                  55                  60
Leu Leu Val Gly Phe Leu Ala Asp Lys Lys Gly His Gly Leu His Val
65                  70                  75                  80
Arg Gly His Val Gly Leu Gly Thr Val Ala Ala Asn Ala Arg Glu Leu
                85                  90                  95
Glu Ser Val Leu Tyr Ile Tyr Arg Ile Ser Ser Val Ser Ser Glu Asn
            100                 105                 110
Gly Gly Phe Leu Lys Phe Lys Thr Tyr Gly Ile Thr
        115                 120
```

<210> 24672

<211> 158
<212> PRT
<213> A.fumigatus

<400> 24672
Arg Tyr Gly Asp Leu Ile Arg Thr Tyr Ile Lys Glu Gly Lys Ile Val
1 5 10 15
Pro Met Glu Ile Thr Val Ala Leu Leu Ser Asn Ala Met Ala Glu Ala
20 25 30
Leu Ala Ala Gly Ala Gly Ala Thr Ala Glu Gly Gly Lys Lys Lys Ala
35 40 45
Arg Phe Leu Ile Asp Gly Phe Pro Arg Lys Leu Asp Gln Ala Val Phe
50 55 60
Phe Glu Asp Thr Val Cys Pro Ser Glu Met Thr Leu Phe Leu Asp Cys
65 70 75 80
Pro Glu Glu Val Met Glu Lys Arg Leu Leu Lys Arg Gly Glu Thr Ser
85 90 95
Gly Arg Asp Asp Asp Asn Ala Glu Ser Ile Arg Lys Arg Phe Arg Val
100 105 110
Phe Val Glu Thr Ser Met Pro Val Val Arg Ala Phe Glu Glu Gln Gln
115 120 125
Lys Val Leu Ser Val Ser Ala Thr Gly Thr Val Asp Glu Val Tyr Ala
130 135 140
Arg Ile Arg Glu Gly Leu Glu Lys Lys Gly Val Gln Pro Ile
145 150 155

<210> 24673
<211> 162
<212> PRT
<213> A.fumigatus

<400> 24673
His Ala Lys Ile Val Ser Val Asp Thr Thr Ala Ala Leu Asn Ile Pro
1 5 10 15
Gly Val Tyr Asp Tyr Val Asp His Arg Asp Leu Pro Asn Pro Lys Ala
20 25 30
Asn Trp Trp Gly Ala Pro Lys Cys Asp Glu Val Phe Phe Ala Val Asp
35 40 45
Glu Val Thr Thr Ala Gly Gln Pro Ile Gly Met Ile Leu Ala Ser Ser
50 55 60
Ala Lys Ile Ala Glu Glu Ala Ser Arg Ala Val Lys Ile Glu Tyr Glu
65 70 75 80
Glu Leu Pro Ala Ile Leu Thr Ile Glu Glu Ala Ile Glu Ala Glu Ser
85 90 95
Tyr Phe Asp His Phe Arg Phe Ile Lys Cys Gly Asp Thr Asp Lys Ala
100 105 110
Phe Glu Glu Ala Asp His Val Phe His Gly Val Ser Arg Met Gly Gly
115 120 125
Gln Glu His Phe Tyr Leu Glu Thr Gln Ala Cys Val Ala Ile Pro Lys
130 135 140
Pro Glu Asp Gly Glu Met Glu Val Trp Ser Ser Thr Gln Asn Pro Thr
145 150 155 160
Glu Thr

<210> 24674

<211> 106
<212> PRT
<213> A.fumigatus

<400> 24674
Leu Arg Asn Ser Gln Thr Tyr Val Ala Gln Val Thr Gly Val Ala Ala
1 5 10 15
Asn Lys Val Val Ser Arg Val Lys Arg Leu Gly Gly Gly Phe Gly Gly
20 25 30
Lys Glu Thr Arg Ser Val Gln Leu Ala Gly Ile Cys Ala Thr Ala Ala
35 40 45
Ala Lys Thr Lys Arg Pro Val Arg Cys Met Leu Asn Arg Asp Glu Asp
50 55 60
Ile Val Thr Ser Gly Gln Arg His Pro Phe Leu Cys His Trp Lys Val
65 70 75 80
Gly Val Thr Lys Glu Gly Lys Leu Leu Ala Leu Asp Ala Asp Val Tyr
85 90 95
Ala Asn Gly Gly His Thr Arg Asp Leu Ser
100 105

<210> 24675
<211> 79
<212> PRT
<213> A.fumigatus

<400> 24675
Ser Phe Tyr His Leu Ile Phe Gly Leu His Cys Thr Glu Arg Leu Thr
1 5 10 15
Ile Ile Val Arg Arg Phe Asn Asp Leu Ala Trp Thr Asp Tyr Glu Asp
20 25 30
Asn Ser Arg Gly Val Ile Ala Gly Ala Leu Glu Ile Gly Ser Leu Asp
35 40 45
Leu Trp Asp Ala Asp Lys Leu Ile Asn Gly Ser Arg Phe Val Arg Arg
50 55 60
Gln Asn Pro Pro Ala Met Met Asn Trp Leu Thr Asp Tyr Lys Gln
65 70 75

<210> 24676
<211> 92
<212> PRT
<213> A.fumigatus

<400> 24676
Gly Ser Leu Leu Gln Leu Tyr Ile Ser Asp Leu Asn Asn Ile Thr Asn
1 5 10 15
Pro Tyr Arg Leu Gly Ser Ala Ala Ala Arg Ala Asp Asp Ile Glu Cys
20 25 30
Leu Asp Trp Asn Lys Lys Val Ala His Ile Leu Val Thr Gly Ser Ser
35 40 45
Ala Gly Phe Val Thr Val Trp Asp Val Lys Thr Arg Lys Glu Ser Leu
50 55 60
Thr Leu Asn Asn Met Gly Arg Lys Ala Val Ser Ala Val Ala Trp Asp
65 70 75 80
Pro Glu Lys Val Arg Leu Asn Lys Ile Asn Ser Ser
85 90

<210> 24677
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24677
Thr Lys Ser Thr Val Ala Asp Phe Ile Ser Asp Phe Gly Gln Pro Thr
1 5 10 15
Lys Leu Ile Thr Ser Thr Pro Leu Glu Ser Asp Pro Leu Ile Tyr Val
20 25 30
Trp Asp Leu Arg Asn Ser His Ala Pro Glu Arg Val Ser Ser Glu Phe
35 40 45
Pro Tyr Ser Ser Ile Gly Asn Ser Thr Asn Met Ile Asn Thr Ile
50 55 60

<210> 24678
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24678
Leu Thr Pro Trp Arg Gln Ala Tyr Leu Tyr Asp Asn Glu Asp Arg Phe
1 5 10 15
Phe Val Gly Trp Arg Leu Gly Glu Ser Trp Ile Tyr Cys Thr Val Ser
20 25 30
Trp Cys Val Ser Leu Phe Cys Ala Val Ala Met Ile Leu Ala Gly Asn
35 40 45
Ser Leu Pro Ser Glu Gly Gly Tyr Glu Leu Ile Pro Asp His Phe
50 55 60

<210> 24679
<211> 241
<212> PRT
<213> A.fumigatus

<400> 24679
Glu Arg Val Ser Phe Gln Leu Arg Arg Cys Lys Thr Val Gln Ser Leu
1 5 10 15
Ala Met Ile Thr Lys Ala Gly Val Pro Ala Ser Lys Ile Leu Val Gly
20 25 30
Met Ala Leu Tyr Gly Arg Ser Phe Gln Met Thr Glu Ala Gly Cys Tyr
35 40 45
Thr Ala Asp Cys Thr Tyr Thr Gly Pro Met Ser Gly Ala Thr Pro Gly
50 55 60
Glu Cys Thr Asp Thr Ala Gly Tyr Leu Ser Asn Tyr Glu Ile Glu Gln
65 70 75 80
Ile Ile Ala Gly Gly Gly Val Gln Gln Tyr Ser Ser Asp Asp Gly Asp
85 90 95
Ile Leu Val Tyr Asn Gln Thr Gln Trp Val Ser Trp Ile Asn Pro Ser
100 105 110
Thr Tyr Trp Asp Arg Leu Ala Trp Val Gln Gly Leu Asn Phe Gly Gly
115 120 125
Thr Ser Asp Trp Ala Met Asp Leu Asn Gln Thr Phe Ala Asp Ala Asp
130 135 140
Ala Ser Asn Ile Val Tyr Ile Ser Pro Asp Ile Trp Ser Glu Pro Asp
145 150 155 160

```
Pro Thr Val Ala Cys Tyr Pro Pro Cys Thr Phe Val Phe Pro Pro Trp
                165                 170                 175
Ser Leu Ser Thr Pro Thr Thr Ile Ser Arg Pro Pro Val Thr Met Thr
            180                 185                 190
Leu Glu Glu Thr Trp Pro Leu Ile Glu Ser Leu Asn Gly Asn Ile Thr
        195                 200                 205
Thr Thr Gly Tyr Thr Thr Gly Thr Thr Val Thr Thr Ile Thr Leu Pro
    210                 215                 220
Pro Val Thr Thr Asp Leu Ser Ser Pro Thr Gly Leu Glu Gly Ser Glu
225                 230                 235                 240
Leu
```

<210> 24680
<211> 393
<212> PRT
<213> A.fumigatus

<400> 24680

```
Leu Glu Gly Leu Ile Ser Gln Ser Thr Phe Pro Gly Trp Val Phe Ser
1               5                   10                  15
Thr Phe Gly Gly Asn Gly Gln Glu Ser Glu Ala Gln Glu Leu Gly Ser
            20                  25                  30
Gly Asp Tyr Leu Ala Glu Gly Ser Glu Phe Pro Glu Lys Arg Asp Phe
        35                  40                  45
Cys Gln Ala Pro Met Val Lys Ile His Lys Gly Gly Pro Pro Asp Ser
    50                  55                  60
Gly Ala Val Pro Thr Leu Gln Gly Asn Arg Ser Arg Arg His Lys Asp
65                  70                  75                  80
Asp Asn Val Ser Asn Ala Ile Glu Gly Trp Ala Tyr Ser Ser Val Lys
                85                  90                  95
Pro Val Val Lys Glu Gln Leu Ala Lys Asp Ser Ala Phe Leu Lys Glu
            100                 105                 110
Leu Ile Lys Val Leu Lys Ala Ser Ile Ala Asp Ala Ser Val Leu Tyr
        115                 120                 125
Gly Gly Leu Met Ile Ile Leu Asn Leu Thr Gln Phe Leu Pro Ser Met
    130                 135                 140
Thr Glu Glu Gln Lys Lys Met Ser Gln Leu Lys Ala Tyr Ala Asp Ala
145                 150                 155                 160
Ser Gly Ala Thr Ala Gln Ala Gly Pro His Pro Leu Asp Asp Asp Glu
                165                 170                 175
His Val Ile Ala Arg Cys Asn Ala Val Val Gln Ala Gly Val Met Pro
            180                 185                 190
Leu Phe Ile Glu Cys Asn Lys Ser Ser Leu Pro Ser Ala Gln Gly Leu
        195                 200                 205
Val Ser Lys Ile Leu Leu Ser Leu Ser Arg Asp Arg Lys Ser Arg Gly
    210                 215                 220
Ile Leu Ala Gln Gln Gly Ala Val Lys Leu Leu Leu Ser Leu Gly Ser
225                 230                 235                 240
Ala Arg Gln Gly Thr Ser Gly Ser Ile Ser Asp Glu Ala Met Gln Ser
                245                 250                 255
Ala Ser His Ala Leu Ala Arg Ile Leu Ile Ser Val Asn Pro Ser Leu
            260                 265                 270
Val Phe Pro Ser Ser Gly Val Pro Gln Ile Thr Ser Ala Val Arg Pro
        275                 280                 285
Leu Thr Asn Leu Leu Ala Thr Pro Glu Val Gly Asn Leu Thr Ala Glu
```

```
    290                 295                 300
Gln Pro Arg Asp Leu Leu Pro Val Phe Glu Ser Leu Leu Ala Leu Thr
305                 310                 315                 320
Asn Leu Ala Ser Tyr Pro Asp Pro Ser Ala Ala Glu Ala Ile Val Arg
                325                 330                 335
His Ala Trp Thr Val Val Glu Asp Leu Leu Leu Ser Ser Ser Pro Met
            340                 345                 350
Ile Gln Arg Ala Ser Cys Glu Leu Val Cys Asn Leu Met Thr Cys Glu
        355                 360                 365
Ser Gly Val Ala Lys Phe Ala Asp Gly Ser Lys Arg Ala Gly Val His
    370                 375                 380
Thr Arg Arg Leu Glu Gly Thr Ala Leu
385                 390

<210> 24681
<211> 395
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (358),(385)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24681
Glu Tyr Arg Trp Asn Thr Ser Leu Thr Ser Asn Asp Val His Arg Arg
1                   5                   10                  15
Leu Pro Ala Asp Gly Gly Leu Trp His Asn Glu Glu Pro Val Thr Thr
            20                  25                  30
Pro Phe Phe Gly Ile Trp Asp Arg Ser Ala Gly Lys Ile Gly Thr Leu
        35                  40                  45
Ile Ala Phe Leu Pro Thr Asp Lys Pro Ser Pro Thr Ala Gln Val Asp
    50                  55                  60
Met Ser Ser Val Gly Ala Phe Ala Tyr Arg Val Glu Ala Thr Glu Ser
65                  70                  75                  80
Leu Ser Arg Val Thr Thr Phe Phe Leu Gln Gln Arg Ile Asn His Arg
                85                  90                  95
Asp Arg Gln Glu Met Gly Ser Trp Leu Met Arg Phe Lys Glu Leu Asp
            100                 105                 110
Leu Arg Leu Val Ser Trp Lys Met Ser Leu Pro Gln Lys Trp Lys Asp
        115                 120                 125
Thr Asn Ile Ser Arg Gln Pro Thr Val Val Thr Met Asp Pro Asn Leu
    130                 135                 140
Thr Leu Ala His Ile Thr His Asn Thr Ser Met Ile Leu Leu His Gln
145                 150                 155                 160
Arg Ile Ala Tyr Pro Pro Pro Glu Trp Leu Glu Val Val Lys Leu Pro
                165                 170                 175
Thr Leu Ser Ser Ala Glu Thr Cys Glu Ala Ala Ala Ala Glu Thr Ala
            180                 185                 190
Asn Ile Thr Glu Lys Tyr Leu Gly Asn Cys Pro Arg Asp Gly Val Val
        195                 200                 205
Asp Ser Gln Phe Ala Phe Cys Val Phe Val Ser Ala Arg Val Leu Leu
    210                 215                 220
Gly Glu Phe Ser Ser Ser Gly Pro Ser Arg Gly Phe Ser Gln Arg Thr
225                 230                 235                 240
Leu Glu Val Val His Trp Arg Tyr Tyr Gly Thr Pro Leu Ser Pro Asp
```

```
                245                 250                 255
Tyr Trp Thr Leu Met Lys Cys Leu Asp Ala Met Ala Thr Arg Trp Ser
            260                 265                 270
Gly Arg Val Gln Ala Ser Arg Gln Asn Ser Ala Ala Arg Tyr Phe Gly
        275                 280                 285
Gln Leu Asn Ala Ile His Arg Ala Cys Gln Ser Asp Glu Asn Phe Lys
    290                 295                 300
Leu Asp Val Leu Gly Tyr Ser Asn Glu Ile Glu Trp Thr Gly Glu Lys
305                 310                 315                 320
Gln Thr Thr Ala Pro Ala Ala Val Pro Ala Pro Asp Thr Thr Thr Gly
                325                 330                 335
Leu Ser Gln Val Ala Phe Pro Ala Asp Leu Pro Pro Met Leu Gln Ser
            340                 345                 350
Ser Pro Ala Arg Met Xaa Tyr Asn Thr Gly Ser Pro Asp Glu Leu Thr
        355                 360                 365
Thr Val Thr Ser Ile Leu Leu Asp Gln Gln Tyr Ser Glu Leu Asp Gly
    370                 375                 380
Xaa His His Gly Ser Glu Gly Pro Arg Met Arg
385                 390                 395
```

<210> 24682
<211> 196
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24682

```
Ala Tyr Arg Asn Cys Ser Gly Val Ser Pro Phe Phe Gly Val Xaa Arg
1               5                   10                  15
Gln Pro Lys Glu Val Pro Ile Gln Glu Lys Tyr Asp Tyr Cys Glu Lys
            20                  25                  30
Ile Ile Asp Leu Leu Glu Met Arg Pro Met Ala Gly Ala Thr Val Gly
        35                  40                  45
Ser Gly Gly Ala Gly Leu Asn Pro Glu Gln Arg Lys Arg Leu Thr Ile
    50                  55                  60
Ala Val Glu Leu Ala Ser Lys Pro Glu Leu Leu Leu Phe Leu Asp Glu
65                  70                  75                  80
Pro Thr Ser Gly Leu Asp Ser Leu Ala Ala Phe Asn Ile Val Arg Phe
                85                  90                  95
Leu Arg Arg Leu Ala Asp Ala Gly Gln Ala Ile Leu Cys Thr Ile His
            100                 105                 110
Gln Pro Ser Ala Val Leu Phe Glu Glu Phe Asp Asp Leu Leu Leu Leu
        115                 120                 125
Gln Ser Gly Gly Arg Val Val Tyr Asn Gly Glu Leu Gly His Asp Ser
    130                 135                 140
Asn Ala Leu Ile Glu Tyr Phe Glu Ser Asn Gly Ala Lys Lys Cys Pro
145                 150                 155                 160
Pro His Ala Asn Pro Ala Glu Val Arg Leu Val Pro His Leu Phe Lys
                165                 170                 175
Pro Lys Leu Thr Lys Phe Pro Val Tyr Ala Arg Gly His Arg Arg Arg
            180                 185                 190
Lys Pro Gly Leu
```

195

<210> 24683
<211> 90
<212> PRT
<213> A.fumigatus

<400> 24683
Gln Gln Gly Lys Phe Leu Leu His Ile Phe Thr Gly Leu Phe Asn Thr
1 5 10 15
Phe Thr Phe Trp His Leu Gly Asn Ser Tyr Ile Asp Met Gln Ser Arg
20 25 30
Leu Phe Ser Ile Phe Met Thr Leu Thr Ile Ser Pro Pro Phe Asp Pro
35 40 45
Thr Ala Pro Ala Gln Val Pro Ala Leu Ser Gly Asn Leu Leu Leu Ile
50 55 60
Thr Ser Arg Pro Pro Pro Lys Ile Phe Ser Trp His Arg Arg Trp Ser
65 70 75 80
Pro Thr Ala Ile Leu Pro Pro Thr Gly Leu
85 90

<210> 24684
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24684
Gln Ser Ser Gln Tyr Met Leu Glu Val Ile Gly Ala Gly Asn Pro Asp
1 5 10 15
Tyr Lys Gly Lys Asp Trp Gly Asp Val Trp Ala Gln Ser Pro Gln Cys
20 25 30
Lys Gln Leu Ala Glu Glu Ile Asp Lys Ile Ile Ser Ser Arg Arg Asn
35 40 45
Arg Glu Ile Arg Lys Asn Lys Asp Glu His Arg Glu Tyr Ala Met Pro
50 55 60
Ile Trp Thr Gln Ile Val Thr Val Thr Lys Arg Ala Phe Val Ala Tyr
65 70 75 80
Trp Arg Ser Pro Gln Tyr Thr Leu Val Ser Val Gln Phe Arg His Arg
85 90 95
Gly Val Glu Ala Asn Ser Asn Arg Ala Asn Ser Ser Phe Ile Ser Ser
100 105 110
Leu Asp Ser Leu Thr Arg Leu His Ser Gly Ile Trp Glu Ile Ala Thr
115 120 125
Ser Ile Cys Asn Arg Gly Ser Ser Arg Ser Ser
130 135

<210> 24685
<211> 370
<212> PRT
<213> A.fumigatus

<400> 24685
Trp Arg Val Cys Leu Gln Pro Arg Gly Glu Asp Glu His Val Ile Asn
1 5 10 15
Phe Phe Tyr Tyr Val Ala Asn Glu Met Arg Ala Ile Met Ala Lys Leu
20 25 30

```
Gly Ile Arg Thr Val Asn Glu Met Val Gly Arg Ala Glu Leu Leu Arg
        35                  40                  45
Val Arg Glu Asp Ile Arg Ser Ala Lys Gln Glu Arg Ile Asp Leu Ser
    50                  55                  60
Leu Ile Leu Thr Pro Ala His Ser Leu Arg Pro Gly Val Ala Thr Tyr
65                  70                  75                  80
Asn Val Arg Lys Gln Asp His Arg Leu His Val Arg Leu Asp Asn Lys
                85                  90                  95
Leu Ile Ala Glu Ser Glu Leu Ala Leu Glu Lys Gly Leu Pro Cys Arg
            100                 105                 110
Ile Glu Cys Asp Ile Val Asn Thr Asp Arg Ala Leu Gly Ala Thr Leu
        115                 120                 125
Ser Tyr Gln Val Ser Arg Arg Tyr Gly Gly Ala Gly Leu Pro Gln Asp
    130                 135                 140
Thr Ile His Ala Asn Ile Lys Gly Ser Ala Gly Gln Ser Phe Gly Ala
145                 150                 155                 160
Phe Leu Ala Pro Gly Ile Thr Leu Glu Leu Glu Gly Asp Ala Asn Asp
                165                 170                 175
Tyr Val Gly Lys Gly Leu Ser Gly Gly Arg Leu Ile Val Tyr Pro Pro
            180                 185                 190
Arg Gly Ala Ala Tyr Lys Ala Glu Glu Asn Ile Ile Ile Gly Asn Thr
        195                 200                 205
Cys Leu Tyr Gly Ala Thr Arg Gly Thr Cys Tyr Phe Arg Gly Val Ala
    210                 215                 220
Ala Glu Arg Phe Ala Val Arg Asn Ser Gly Ala Thr Ala Val Val Glu
225                 230                 235                 240
Gly Val Gly Asp His Gly Cys Glu Tyr Met Thr Gly Gly Arg Val Leu
                245                 250                 255
Ile Leu Gly Ser Thr Gly Arg Asn Phe Ala Ala Gly Met Ser Gly Gly
            260                 265                 270
Ile Ala Tyr Val Leu Asp Met Asn Gln Asp Phe Leu Ser Lys Val Asn
        275                 280                 285
Met Glu Met Val Glu Val Ser Gly Leu Glu Asp Pro Ala Glu Ile Ala
    290                 295                 300
Phe Val Arg Gly Leu Ile Glu Asp His His His Tyr Thr Gly Ser Glu
305                 310                 315                 320
Leu Ala Ala Arg Ile Leu Leu Asp Phe Thr Arg Ala Leu Pro His Phe
                325                 330                 335
Val Lys Val Leu Pro Thr Asp Tyr Lys Arg Ile Leu Glu Glu Glu Ala
            340                 345                 350
Ala Lys Ala Ala Ala Ala Ser Leu His His Gly Arg Leu Glu Gly Gln
        355                 360                 365
Lys Ser
    370

<210> 24686
<211> 276
<212> PRT
<213> A.fumigatus

<400> 24686
Asp Ile Gly Asp Thr Thr Gly His Thr Ser Ser Glu Ile Thr Thr Gly
1               5                   10                  15
Arg Ala Lys Asn Glu His Thr Thr Thr Gly His Val Leu Thr Thr Val
            20                  25                  30
Val Thr Asn Thr Phe Asn Asn Gly Ser Ser Thr Arg Val Thr Asn Ser
```

```
        35                  40                  45
Lys Thr Phe Ser Ser His Thr Ala Glu Val Ala Gly Thr Pro Gly Ser
    50                  55                  60
Thr Val Glu Thr Ser Val Ala Asp Asp Asp Val Leu Leu Cys Leu Val
65                  70                  75                  80
Gly Ser Thr Ala Arg Arg Ile Asp Asn Glu Thr Ala Ala Arg Lys Thr
                85                  90                  95
Leu Ala His Ile Ile Val Gly Val Thr Leu Lys Phe Glu Ser Asn Thr
            100                 105                 110
Arg Ser Lys Glu Ser Thr Lys Gly Leu Ala Ser Arg Ala Leu Asp Val
        115                 120                 125
Gly Val Asp Gly Val Leu Arg Lys Ala Cys Ser Thr Val Ala Ala Thr
    130                 135                 140
Asp Leu Val Arg Gln Ser Ser Ala Gln Gly Thr Val Ser Ile Asp Asn
145                 150                 155                 160
Val Thr Leu Asn Ser Ala Arg Gln Thr Leu Leu Gln Arg Gln Phe Gly
                165                 170                 175
Leu Arg Asp Glu Leu Val Val Lys Ala Asp Val Gln Thr Val Val Leu
            180                 185                 190
Leu Ala Asp Ile Val Ser Ser His Ala Arg Thr Glu Gly Met Ser Gly
        195                 200                 205
Ser Gln Asp Glu Gly Glu Val Asn Ser Leu Leu Leu Gly Ala Ala Asn
    210                 215                 220
Val Leu Ser Asp Pro Glu Gln Leu Ser Thr Ser Asn His Leu Val Asp
225                 230                 235                 240
Arg Ala Asp Ala Glu Leu Gly His Asp Ser Thr His Leu Ile Ser His
                245                 250                 255
Ile Val Glu Glu Val Asp His Val Phe Val Phe Thr Thr Arg Leu Gln
            260                 265                 270
Ala Asp Ala Pro
        275
```

<210> 24687
<211> 91
<212> PRT
<213> A.fumigatus

```
<400> 24687
Cys Val His Pro Asp Gly Ala His Glu Arg Asn Tyr Tyr Arg Pro Ser
1               5                   10                  15
Pro Trp Asp Ala Gly Asp Ala Leu Leu Gln Asp Cys Thr Ser Tyr Gly
            20      .           25                  30
His Val Gly Asn Lys Asn Asp Leu Ser Ala Ala Thr Ile Glu Glu Tyr
        35                  40                  45
Ile Ile Val Ser Arg Gly Leu Asn Thr Thr Glu His Thr Gln Ala Ser
    50                  55                  60
Phe Val Val Val Gly Asp Ser Arg Ser His Val Ile Asp Ile Asp Gln
65                  70                  75                  80
Arg Thr Ser Gln Ala Arg Ala Pro Ser Thr Arg
                85                  90
```

<210> 24688
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24688
Gly Asn Ile Ile Asn Lys Lys Lys Asn Pro Pro Lys Glu Glu Glu Lys
1 5 10 15
Lys Lys Asp Lys Glu Glu Lys Lys Glu Lys Glu Lys Glu Lys Glu Lys
20 25 30
Glu Lys Glu Lys Glu Lys Glu Glu Lys Lys Glu Ile Asp His His Lys
35 40 45
Thr Thr Trp Ile Lys Val Ser Asp Leu Asp Ser Glu Asp Arg Ser His
50 55 60
Cys Met Arg Cys Leu Thr
65 70

<210> 24689
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24689
Leu Asp Gly Asn Tyr Ile Ile Ile Lys Gln Trp Ile Ser Glu Asp Leu
1 5 10 15
Gln Glu Glu Leu Phe Ala His Thr Arg Arg Leu Arg Glu Gly Lys Leu
20 25 30
Val Thr Glu Thr Ser Ser Thr Leu Thr Glu Leu Lys Val Asn Asp Arg
35 40 45
Lys Lys Asp Arg Met Tyr Leu Val Arg Lys Lys Ser Pro Asn Arg Arg
50 55 60
Ala Trp Ile Phe Thr
65

<210> 24690
<211> 218
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (95),(127),(195)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24690
Leu Pro Ala Gly Gly Gly Asn Ser Arg Thr Leu Ser Cys Gly His Pro
1 5 10 15
Asn Phe Pro Lys Gly Gly Phe Tyr Pro Pro Gly Pro Leu Gln Gly Lys
20 25 30
Trp Gly Phe Trp Gly Glu Ala Ser Ser Pro Ala Gln Gly Thr Leu Gly
35 40 45
Ile Gly Leu Phe Arg Arg Ile Pro Val Leu Thr Gly Gln Gly Ala Ile
50 55 60
Phe Phe Val Thr Gly Arg Cys Thr Gly Pro Val Ile Arg Ile Leu Gly
65 70 75 80
Glu Trp Gln Arg Glu Met Pro Val Met Leu Asp Phe Met Phe Xaa Phe
85 90 95
Asn Glu Gln Leu Lys Arg Gly Leu Ala Leu Val Ala Ser Ser Glu Gln
100 105 110
Ser Glu Gln Pro Leu Lys Ser Thr Ser Ser Ser Ser Ile Asn Xaa Val
115 120 125

```
Ser Gly Gly Leu Ala Ala Gly Leu Ala Thr Ala Ile Thr Asn Leu Leu
    130                 135                 140
Ser Ala Val Lys Thr Arg Leu Gln Leu Met Pro Gly Lys Tyr Gly Asn
145                 150                 155                 160
Met Ile Arg Ala Val Arg Leu Met Ile Arg Glu Asp Gly Val Arg Ser
                165                 170                 175
Leu Phe Gly Gly Leu Gly Leu Arg Ile Thr Arg Lys Ala Leu Ser Ser
            180                 185                 190
Ala Leu Xaa Trp Thr Val Tyr Glu Glu Leu Ile Leu Arg Ala Glu Ala
        195                 200                 205
Arg Trp Ala Glu Lys Asp Lys Ile Asp Leu
    210                 215
```

<210> 24691
<211> 138
<212> PRT
<213> A.fumigatus

<400> 24691

```
Lys Tyr Gln Val Arg Gly Leu Ala Tyr Pro Arg Gly Ile Ala Arg Pro
1               5                   10                  15
Glu Ile Phe Glu Phe Asn Ser Val Asn Asp His Cys Asp Arg Pro Ala
            20                  25                  30
Pro Asp Met Tyr Val Met Gln Tyr Gln Val Lys Ala Thr Thr Ser Glu
        35                  40                  45
Asp Arg Ala Asn Asp Arg Ile Asp Tyr His Ser Leu Leu Tyr Arg Leu
    50                  55                  60
Leu Ser Val Ser Tyr Leu Leu Val Trp Ser Gln Ser Tyr Ile Ser Ala
65                  70                  75                  80
Asp Met His Gln Trp Glu Gln Pro Arg Ala Thr Ala Val Ser Phe Val
                85                  90                  95
Ser Val Ile Ala Phe Ile Phe Ala Ala Arg Tyr Leu Pro Leu Leu Arg
            100                 105                 110
Trp Phe Phe Lys Phe Thr Tyr Leu Ala Leu Gly Cys Glu Leu Leu Leu
        115                 120                 125
Val Gly Ala Phe Leu Arg Ser Leu Ala Asp
    130                 135
```

<210> 24692
<211> 189
<212> PRT
<213> A.fumigatus

<400> 24692

```
Val Ser Leu Ser Arg Gly Cys Ser His Arg Ile Val Ile Val Leu His
1               5                   10                  15
Pro Lys Ser Glu Pro Thr Ser Pro Gly Pro Lys Pro Pro Leu His Ser
            20                  25                  30
Asp His Pro Pro Ser Thr Pro Ile Tyr Ala Pro Ser Pro Ser Thr Thr
        35                  40                  45
Pro Ile Gln Thr His Pro Pro Pro His Ala Gln Leu Ser Gly Met Thr
    50                  55                  60
Met Tyr Ala Asn Asp Pro Thr Ala Pro Phe Val His Gln Asn Ser Ser
65                  70                  75                  80
Arg Pro Arg Asn Pro Gln Ser Pro Gln Pro Asp Pro Gln Pro Pro Arg
                85                  90                  95
```

```
Arg Pro Ala Ser Gln Gly Thr Asp Pro Pro Arg His Ser Ala Pro Pro
            100                 105                 110
His Arg Arg Pro His His Gln Asp His Gln Ser Arg Tyr Ala Ala Lys
        115                 120                 125
Ala Ser Lys Gln Asp Ile Pro Ala Ala Gln Pro Arg Ala His Tyr Ser
    130                 135                 140
Tyr Thr Arg Arg Leu His Pro Ser Leu Gly Pro Pro Pro His Gln Pro
145                 150                 155                 160
Leu Ala Ala Ser Ser Arg Arg Arg Ala Arg Phe Pro Ala Arg Ser Trp
                165                 170                 175
Thr Arg Gly Asn Ala Ile Pro Trp Arg Leu Ala Arg Arg
            180                 185
```

<210> 24693
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24693

```
Arg Cys Met Arg Met Thr Gln Pro His His Leu Cys Ile Lys Thr His
1               5                   10                  15
Pro Asp Leu Glu Thr Pro Asn Leu Pro Ser Gln Ile His Asn Arg Arg
            20                  25                  30
Ala Ala Pro Arg Arg Lys Val Gln Thr Leu Leu Asp Thr Gln His Leu
        35                  40                  45
Leu Thr Val Val Pro Ile Thr Arg Ile Ile Ser Pro Ala Met Pro Gln
    50                  55                  60
Lys Pro Arg Asn Lys Thr Ser Leu Pro His Ser Leu Glu His Thr Thr
65                  70                  75                  80
Val Ile Pro Ala Ala Tyr Ile Arg Pro
                85
```

<210> 24694
<211> 150
<212> PRT
<213> A.fumigatus

<400> 24694

```
Pro Asn Arg Thr Ile Cys Ala Ser Lys Leu Ile Pro Thr Ser Lys Pro
1               5                   10                  15
Pro Ile Ser Pro Ala Arg Ser Thr Thr Ala Ala Pro Pro Arg Val Ala
            20                  25                  30
Arg Tyr Arg Pro Ser Ser Thr Leu Ser Thr Ser Ser Pro Ser Ser Pro
        35                  40                  45
Ser Pro Gly Ser Ser Val Pro Leu Cys Arg Lys Ser Leu Glu Thr Arg
    50                  55                  60
His Pro Cys Arg Thr Ala Ser Ser Thr Leu Gln Leu Tyr Pro Pro Leu
65                  70                  75                  80
Thr Ser Val Pro Arg Pro Thr Ser Thr Pro Ala Ser Ser Ser Phe Leu
                85                  90                  95
Thr Ala Gln Ser Pro Leu Pro Ser Ala Glu Leu Asp Ala Gly Gln Cys
            100                 105                 110
Asp Thr Leu Ala Pro Arg Ala Ala Met Ser Ser Arg Ser Asp Gly Asp
        115                 120                 125
Arg Cys Thr Ala Cys Ala Arg Ile Val Arg Gly Val Arg Ser Pro Lys
    130                 135                 140
```

Ser Ser Tyr Thr Asp Val
145 150

<210> 24695
<211> 355
<212> PRT
<213> A.fumigatus

<400> 24695
Ser Ala Gly Gly Gly Met Asp Asn Pro Ser Leu Cys Pro Asp Tyr Tyr
1 5 10 15
Leu Asp Ser Ser Pro Glu Ser Ser Val Ser Lys Ser Lys Glu Thr Ile
20 25 30
Ala His Ile His Ser Met Asp Pro Ala Gly Thr Leu Ile His Pro Ile
35 40 45
Leu Thr Pro Arg Phe Ala Pro Thr Cys Ser Pro Pro Ala Phe His Gly
50 55 60
Leu Ala Gln Leu Ala Gln Ser Tyr Asn Pro Pro Leu His Ile Gln Thr
65 70 75 80
His Leu Ser Glu Asn Thr Gly Glu Ile Ser Leu Val Arg Glu Leu Phe
85 90 95
Pro Gln Ser Lys Asp Tyr Thr Ser Val Tyr Asp Asp Phe Gly Leu Leu
100 105 110
Thr Pro Arg Thr Ile Leu Ala His Ala Val His Leu Ser Pro Ser Glu
115 120 125
Arg Glu Leu Ile Ala Ala Arg Gly Ala Lys Val Ser His Cys Pro Ala
130 135 140
Ser Asn Ser Ala Leu Gly Ser Gly Leu Cys Ala Val Arg Lys Leu Leu
145 150 155 160
Glu Ala Gly Val Glu Val Gly Leu Gly Thr Asp Val Ser Gly Gly Tyr
165 170 175
Asn Cys Ser Val Leu Glu Ala Val Arg Gln Gly Cys Leu Val Ser Arg
180 185 190
Leu Leu Arg His Ser Gly Thr Asp Asp Pro Gly Asp Gly Asp Asp Gly
195 200 205
Glu Glu Val Leu Ser Val Glu Glu Gly Leu Tyr Leu Ala Thr Arg Gly
210 215 220
Gly Ala Ala Val Val Asp Leu Ala Gly Glu Ile Gly Gly Phe Glu Val
225 230 235 240
Gly Met Ser Phe Asp Ala Gln Met Val Arg Leu Gly His Ser His Thr
245 250 255
Ser Ser Ser Pro Thr Ala Glu His Gly Val Val Asp Val Phe Gly Trp
260 265 270
Glu Ser Trp Thr Glu Lys Val His Lys Trp Val Trp Thr Gly Asp Asp
275 280 285
Arg Asn Val Lys Ala Val Trp Val Arg Gly Arg Leu Val His Ser Leu
290 295 300
Asp Glu Gly Gln Ser Gln Ser Asp Val Ser Ile Pro Glu Lys Gly Lys
305 310 315 320
Pro Thr Trp Ile Trp Ala Arg Thr Gly Ala Ala Trp Glu Ser Lys Trp
325 330 335
Trp Leu Cys Gly Leu Gly Phe Val Ser Ala Trp Phe Ile Phe Asp Arg
340 345 350
Val Met Arg
355

<210> 24696
<211> 193
<212> PRT
<213> A.fumigatus

<400> 24696
Thr Asn Gly Gly Asp Lys Trp Lys Lys Gly Leu Asp Gly Leu Leu Asn
1 5 10 15
Thr Thr Phe Gln Arg Phe Phe Pro Phe Gln Asn Gly Met Val Met Ser
20 25 30
Glu Ile Ala Cys Glu Pro Asn Met Lys Cys Asp Arg Asn Gln Asp Cys
35 40 45
Phe Lys Gly Phe Leu Ser Ser Trp Leu Thr Phe Met Thr Thr Ile Val
50 55 60
Pro Tyr Thr Ser Ser Glu Val Val Pro Arg Ile Gln Gln Ser Ala Leu
65 70 75 80
Ala Ala Ala Lys Gln Cys Ser Gly Gly Gln Asn Arg Thr Leu Cys Gly
85 90 95
Arg Arg Trp His Gln Asp Thr Phe Asp Gly Thr Ser Ser Leu Glu Glu
100 105 110
Gln Met Ser Ala Leu Ser Val Phe Ser Ser Ser Met Ile Ala His Arg
115 120 125
Met Gln Ala Gln Ala Pro Leu Thr Val Asp Thr Gly Gly Thr Ser Lys
130 135 140
Ser Asn Ala Ser Ala Gly Thr Gly Ser Glu Gln Ala Ala Pro Gln Pro
145 150 155 160
Gln Pro Val Thr Thr Gly Asp Arg Ala Gly Ala Gly Ile Val Thr Val
165 170 175
Val Phe Leu Ser Gly Trp Ile Ala Ala Val Thr Trp Met Val Tyr Gly
180 185 190
Arg

<210> 24697
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24697
Val Arg His Gly Ser Met Met Ser Ile Gln Thr Asn Gly Val Ser Leu
1 5 10 15
Pro Asp Ile Gly Phe Thr Gln Met Ile Glu Gly Ser Ser Ile Thr Asp
20 25 30
Met His Leu Phe Ser Pro Ser Gln Pro Asp Leu Asn Trp Asp Asn Pro
35 40 45
Glu Val Arg Asn Ala Val Phe Asp Val Ile Asp Phe Trp Gly Gln Lys
50 55 60
Gly Thr Asp Gly Phe Arg Val Tyr Gln Pro
65 70

<210> 24698
<211> 78
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (39),(40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24698
Lys Thr Leu Gly Ala Asp Met Leu Trp Leu Thr Pro Ile Tyr Glu Ser
1 5 10 15
Pro Phe Glu Asp Gln Gly Tyr Asp Ile Ala Asn Tyr Lys Gly Ile Asn
20 25 30
Pro Ile Tyr Gly Thr Met Xaa Xaa Trp Glu Asp Leu Ala Ala Glu Ile
35 40 45
His Arg Arg Gly Met Lys Ile Met Met Asp Met Val Phe Asn His Thr
50 55 60
Ser Ser Gln Val Ser Gly Ser Asn Ala Glu Thr Ser Leu Cys
65 70 75

<210> 24699
<211> 255
<212> PRT
<213> A.fumigatus

<400> 24699
Lys Leu Gly Arg Gln Ser Thr Trp Glu Gln Ser Ala Asp Ile Pro Asp
1 5 10 15
Glu Asp Thr Ser Leu Thr Val Phe Asn Arg Gly Asn Val Met Pro Ser
20 25 30
Thr Lys Ile Leu Thr Phe Tyr Arg Lys Gln Pro Phe Asp Leu Glu Ala
35 40 45
Arg Tyr Ala Lys Pro Asp Met Leu Pro Gly Lys Ile Asn Pro Trp Ile
50 55 60
Gly Arg Phe Ser Val Lys Gly Val Lys Ala Asp Ala Asn Asp Asp Phe
65 70 75 80
Met Ile Cys Lys Leu Lys Ala Arg Leu Asn Leu His Gly Ile Leu Asn
85 90 95
Val Glu Ser Gly Tyr Tyr Val Glu Asp Val Glu Val Glu Glu Pro Val
100 105 110
Asp Glu Asp Lys Met Asp Thr Asp Ala Pro Glu Gly Glu Gln Pro Lys
115 120 125
Lys Thr Arg Lys Val Lys Lys Gln Val Arg Lys Gly Asp Leu Pro Ile
130 135 140
Ser Thr Gly Thr Asn Ser Val Asp Gln Thr Val Lys Glu Thr Trp Ile
145 150 155 160
Glu Arg Glu Asn Ala Met Tyr Met Glu Asp Lys Leu Ile Ala Glu Thr
165 170 175
Asp Glu Lys Lys Asn Glu Leu Glu Ser Thr Ile Tyr Glu Leu Arg Asp
180 185 190
Lys Ile Asp Gly Val Tyr Ala Glu Phe Ala Ser Glu Glu Glu Lys Asp
195 200 205
Lys Leu Arg Ala Lys Leu Thr Asp Met Glu Val Ser Thr Met Ser Cys
210 215 220
Pro His Thr Gly Arg Arg Asn Ser Lys Leu Thr Arg Tyr Val Gly Leu
225 230 235 240
Ala Leu Arg Arg Arg Arg Arg His Tyr Pro Val Arg Leu Arg Cys
245 250 255

<210> 24700

<211> 280
<212> PRT
<213> A.fumigatus

<400> 24700
Pro Leu Phe Ala Gly Leu Leu Asp Met Val Ala Asp Gln Lys Tyr Cys
1 5 10 15
Pro Asn Ile Ser Asn Phe Leu Phe Asn Asp Pro Asp Gly Asn Ile Thr
20 25 30
Gly Phe Val Pro His Leu Thr Pro Leu Ala Pro Pro Val Leu Ala Leu
35 40 45
Ser Arg Leu Ala Ile Ser Pro Ala Lys Pro Ile Pro Pro Ala Glu Ser
50 55 60
Asn Gln Ala Leu Val Leu Asn Pro Val Pro Pro Ser Ala Arg Trp Ile
65 70 75 80
His His Ser Lys Thr Gln Gly Arg Arg Leu Tyr Asn Leu Leu Ala Gln
85 90 95
Trp Asn Val Leu Tyr Val Gly Leu Phe Asn Arg Pro Ala Ile Thr Leu
100 105 110
Leu Ala Pro Trp Gly Asn Gly Glu Ala Ile Ser Gln Pro Ser Ile Asn
115 120 125
Gln Phe Asp Leu Phe Pro Arg Leu Asn Thr Asn Phe Tyr Gly Pro Ser
130 135 140
Ile Ala Asn Ile Thr Ala Met Arg Gln Pro Arg Ala Gln Gly Val Gln
145 150 155 160
Ala Asn Arg Val Ser Thr Ile Thr Val Phe Asn Thr Lys Asp Asn Thr
165 170 175
Asp Ala Phe Thr Gly Leu Phe Thr Gly Asp Ala His Asp Thr Ile Leu
180 185 190
His Pro Asp Ile Arg Gly Asn Leu Thr Ala Pro Gln His Phe Ser Val
195 200 205
Met Lys Val Pro His His Gly Ser Lys His Ser Glu Ser Gln Glu Phe
210 215 220
Tyr Tyr Gln Tyr Thr Ala Asp Val Tyr Leu Ile Ser Ser Arg Phe Ser
225 230 235 240
Ile His Gly Tyr Phe His Ser Pro Cys Thr Leu Pro Ser Leu Arg Met
245 250 255
Pro Thr Asp Thr Asp Cys Glu Gly Asn Arg Leu Pro Thr Leu Lys Ile
260 265 270
Thr Lys Glu Arg Phe His His Arg
275 280

<210> 24701
<211> 140
<212> PRT
<213> A.fumigatus

<400> 24701
Ser His Pro Thr Asn Ser Ser Gln Ser Val Gly Gly Arg Ala Arg Cys
1 5 10 15
Arg Pro Gly Asp Arg His Ala Asp Ala Ala Ala Pro Arg Ala Arg Thr
20 25 30
Ser His Gln Asn Asp Leu Arg Cys Gly Ala Val Pro Arg Ser Ala Cys
35 40 45
Gly Ala Ala Arg Ala Arg Gly Arg Gly Gly Val Gly Gly Glu Val Pro
50 55 60

```
Ser Ser Val Leu Trp Cys Cys Gly Ala Gly Ala Gly Ala Gly Val Ala
65                  70                  75                  80
Ala Gly Arg Ala Ala Ser Cys Arg Gly Cys Gly Gly Ser Ser Gly Lys
                85                  90                  95
His Gly Arg Gly Leu Arg Tyr Asp Cys Val Cys Ala Gly Phe Val Leu
            100                 105                 110
Cys Ala Gly Val Gly Glu Asp Gly Ala Gly Val Val Cys Ala Val Ala
        115                 120                 125
Ala Arg Gly Ala Val Ala Cys Cys Gly Ala Cys Gly
    130                 135                 140
```

<210> 24702
<211> 203
<212> PRT
<213> A.fumigatus

<400> 24702

```
Thr Arg Pro Ala Ala Arg Pro Thr Ser Thr Gln Gln Gln Asn Gln Asp
1               5                   10                  15
Gln Asp Gln Asp Gln Asp Gln Lys Gln Thr Pro Leu Gln Pro Pro Gln
            20                  25                  30
Ile Gln Asn Ser Thr Asp Leu Ile Pro Pro Ile Leu Ala Arg Ala Ser
        35                  40                  45
Gly Val Val Leu Asp Val Gly Pro Gly Thr Gly Thr Gln Met Pro Leu
    50                  55                  60
Leu Arg Gly Arg Ala Gln Ala Ile Lys Thr Ile Tyr Gly Ala Glu Pro
65                  70                  75                  80
Cys Arg Gly Leu His Ala Glu Leu Arg Ala Arg Ala Glu Glu Glu Gly
                85                  90                  95
Leu Gly Glu Lys Tyr Gln Val Leu Ser Cys Gly Ala Ala Ala Arg Glu
            100                 105                 110
Leu Val Pro Glu Leu Gln Arg Glu Gly Leu Leu Pro Ala Gly Asp Val
        115                 120                 125
Glu Gly Val Leu Ala Ser Thr Asp Gly Val Phe Asp Thr Ile Val Cys
    130                 135                 140
Val Arg Val Leu Cys Ser Val Pro Glu Leu Glu Arg Thr Ala Gln Glu
145                 150                 155                 160
Leu Tyr Ala Leu Leu Arg Pro Gly Gly Gln Leu Leu Val Val Glu His
                165                 170                 175
Val Val Asn Pro Trp Arg Thr Ala Lys Gly Ala Leu Gly Leu His Phe
            180                 185                 190
Gly Ile Ala Lys Ser Ala Leu Ile Pro Lys Ile
        195                 200
```

<210> 24703
<211> 123
<212> PRT
<213> A.fumigatus

<400> 24703

```
Pro Phe Leu Phe Cys Phe Pro Lys Asp Gln Arg His Met Ala Leu Leu
1               5                   10                  15
Ser Pro Gly Ser Gln Glu Phe Glu His Leu Leu Lys Trp Leu Val Ser
            20                  25                  30
Arg Gln Thr Ser Glu Leu Gly Glu Glu Glu Ser Asp Glu Glu Val Asp
        35                  40                  45
```

```
Gly Ser Pro Asp Gln Ser Asp Ser Leu His Arg Asp Thr Ser Asn Leu
    50                  55                  60
Ala Leu Asn Asp Lys Ile Ala Val Leu Pro Asn Leu Ala Pro Pro Thr
65                  70                  75                  80
Glu Glu Ser Leu Leu Trp Ala Gly Phe Asn Gly Arg Cys Asn Lys Tyr
                85                  90                  95
Ala Asp Thr Cys Tyr Ser Leu Trp Asn Ser Gly Thr Leu Val Val Ser
            100                 105                 110
Ile Tyr Arg Phe Cys Asp Val Glu His Tyr Ser
        115                 120
```

<210> 24704
<211> 215
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (120)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24704

```
Gly His Tyr Val Trp Ile Phe Leu Ser Glu Phe Gly Thr Ile Leu Leu
1               5                   10                  15
Tyr Gly Ile Met Phe Phe Tyr Leu Arg Arg Gln Met Lys Gln Ala Ala
            20                  25                  30
Ala Leu Arg Gln Asn His Gln Glu Ser Leu Asn Arg Leu Asn Arg Val
        35                  40                  45
Val Val Tyr Met Val Ile Tyr Pro Leu Val Tyr Val Leu Leu Ser Leu
    50                  55                  60
Pro Leu Ala Glu Gly Arg Met Ser Thr Ala Arg His Val Val Pro Ser
65                  70                  75                  80
Lys Glu Tyr Phe Ala Ala Ala Gly Ala Leu Met Ala Leu Ser Gly Leu
                85                  90                  95
Val Asp Val Val Val Tyr Thr Leu Thr Arg Arg His Leu Leu Leu Asp
            100                 105                 110
Thr Glu Val Ser Thr Ser Asp Xaa Tyr Tyr Ala His Thr Gly Ser Asn
        115                 120                 125
Leu Tyr Asn Thr His Val Ser Thr Thr Val Ala Gly Pro Glu Ser Lys
    130                 135                 140
Lys Ser Arg Val Lys Ser Arg Leu Arg Arg Gly Met Gln Ser Ile Asn
145                 150                 155                 160
Asp Thr Val Leu Asp Asp Arg Gly Asp Ser Thr Glu Asp Ile Val Pro
                165                 170                 175
Lys Gly Pro Lys Gly Ala Ala Met Glu Leu Gly His Met Ala His Gly
            180                 185                 190
Val Tyr Gln Glu Thr Thr Ile Glu Ile Thr His Glu Pro Val Phe Thr
        195                 200                 205
Thr Gly Leu Glu Ala Thr Arg
    210                 215
```

<210> 24705
<211> 264
<212> PRT
<213> A.fumigatus

<400> 24705
Gly Lys Arg Pro Gln Ser Asn Tyr Cys Pro Pro Asp Leu Gly Asp Val
1 5 10 15
Lys Gly Arg Ser Asp Gly Phe Ile Ser Pro Glu His Arg His Pro Ser
20 25 30
Gly Thr Glu Asp Glu His Gly Lys Asn Pro Leu Tyr Leu Ile Lys Glu
35 40 45
Glu Ile Ala Ile Met Lys Lys Leu Asn His Asn Asn Leu Val Ser Leu
50 55 60
Ile Glu Val Leu Asp Asp Pro Thr Glu Asp Ser Leu Tyr Met Val Met
65 70 75 80
Glu Met Cys Lys Lys Gly Val Ile Met Lys Val Gly Leu Glu Glu Arg
85 90 95
Ala Asp Pro Tyr Ser Asp Glu Gln Cys Arg Cys Trp Phe Arg Asp Leu
100 105 110
Ile Leu Gly Ile Glu Tyr Leu His Gly Gln Gly Ile Val His Arg Asp
115 120 125
Ile Lys Pro Asp Asn Cys Leu Leu Thr Asn Asp Asp Val Leu Lys Ile
130 135 140
Val Asp Phe Gly Val Ser Glu Met Phe Glu Lys Asp Ser Asp Met Phe
145 150 155 160
Thr Ala Lys Ser Ala Gly Ser Pro Ala Phe Leu Pro Pro Glu Leu Cys
165 170 175
Val Val Lys His Gly Asp Val Ser Gly Arg Ala Ala Asp Ile Trp Ser
180 185 190
Met Gly Val Thr Leu Tyr Cys Leu Arg Tyr Gly Arg Leu Pro Phe Glu
195 200 205
Lys Gln Ser Ile Phe Glu Leu Tyr Glu Ala Ile Arg Asn Asp Pro Val
210 215 220
Val Cys Glu Glu Glu Thr Asp Asp Asn Phe Lys Asp Leu Ile Leu Arg
225 230 235 240
Ile Leu Glu Lys Asp Pro Ser Lys Arg Ile Thr Met Ser Val Leu Thr
245 250 255
Pro Glu Arg Asp Lys Arg Arg Glu
260

<210> 24706
<211> 71
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24706
Gly Asn Xaa Val Leu Pro Lys Ala Ser Tyr Ala Arg Met Glu Ile Asn
1 5 10 15
Ser Asp Ile Gln Gly Lys Leu Ile Leu Val Ser Tyr Val Arg Lys Gly
20 25 30
Gln Val Thr Arg Leu Gln Arg His Gly Glu Val Glu Leu Phe Ala Gly
35 40 45
Asp Leu Glu Gly Ile Tyr Tyr Asn Ser Gln Ala Arg Ser Tyr Pro Ala
50 55 60
Gly Ile Phe Leu Glu Val Ile

65 70

<210> 24707
<211> 282
<212> PRT
<213> A.fumigatus

<400> 24707
Asp Leu His Pro Thr Ala Thr Arg Asp Leu Thr Ser Pro Ala Ile Ser
1 5 10 15
Ile Gly Trp Asn Thr Phe Glu Lys Leu Asp Gln Ser Cys Val Glu Tyr
20 25 30
Gly Ile Ser Ser Asn Ala Leu Thr Ser Arg Ala Cys Ser Ser Ile Ser
35 40 45
Thr Thr Tyr Ala Thr Ser Arg Thr Tyr Ser Asn Val Val Val Leu Thr
50 55 60
Gly Leu Thr Pro Ala Thr Thr Tyr Tyr Tyr Lys Ile Val Ser Gly Asn
65 70 75 80
Ser Thr Val Asn His Phe Leu Ser Pro Arg Thr Pro Gly Asp Thr Thr
85 90 95
Pro Phe Ser Met Asp Val Val Ile Asp Leu Gly Val Tyr Gly Lys Asp
100 105 110
Gly Tyr Thr Val Ala Ser Lys Lys Ile Lys Lys Ser Asp Val Pro Tyr
115 120 125
Ile Gln Pro Glu Leu Asn His Thr Thr Ile Gly Arg Leu Ala Arg Thr
130 135 140
Ile Asp Asp Tyr Glu Leu Val Ile His Pro Gly Asp Thr Ala Tyr Ala
145 150 155 160
Asp Asp Trp Tyr Leu Arg Val Asp Asn Leu Leu Thr Gly Lys Asp Ser
165 170 175
Tyr Gln Ser Ile Leu Glu Gln Phe Tyr Asn Gln Leu Ala Pro Ile Ala
180 185 190
Gly Arg Lys Pro Tyr Met Ala Ser Pro Gly Asn His Glu Ala Asp Cys
195 200 205
Thr Glu Ile Pro Phe Thr Ser Gly Leu Cys Pro Glu Gly Gln Arg Asn
210 215 220
Phe Thr Asp Phe Met His Arg Phe Ala Asn Thr Met Pro Arg Ala Phe
225 230 235 240
Ala Ser Ser Ser Ser Ser Ser Thr Ala Gln Ser Leu Ala Ala Lys Ala
245 250 255
Ile Ser Leu Ser Asn Pro Pro Phe Trp Tyr Ser Phe Glu Tyr Gly Met
260 265 270
Ala His Ile Val Leu Ile Asp Thr Glu Thr
275 280

<210> 24708
<211> 198
<212> PRT
<213> A.fumigatus

<400> 24708
Cys Lys Arg Gln Tyr Cys Trp Ile Ser Phe Arg Glu Tyr Trp Ser Leu
1 5 10 15
Ala Ala Pro Thr Gly Ile Leu Cys Thr Tyr Phe Arg Ser Gly Phe Leu
20 25 30
Arg Leu Leu Asp Cys Cys Pro Asp Ser Ser Ser Lys Glu Gln Ser Thr

```
        35                  40                  45
Asn Asp Ile Trp Arg Cys Ile Cys Leu Ser Val Gln Arg Ala Ile Ser
    50                  55                  60
Gln His Asn Ile Asp Pro Thr Thr Ile Arg Gly Ile Gly Phe Asp Ala
65                  70                  75                  80
Thr Cys Ser Leu Ala Val Phe Ser Thr Val Thr Asp Glu Pro Val Ser
                85                  90                  95
Val Thr Gly Pro Asn Phe Asp Ser Asp Arg Asn Val Ile Leu Trp Leu
            100                 105                 110
Asp His Arg Pro Val Lys Glu Thr Glu Lys Ile Asn Ala Thr Lys His
        115                 120                 125
Asn Leu Leu Arg Tyr Val Gly Gly Lys Met Ser Ile Glu Met Glu Ile
    130                 135                 140
Pro Lys Val Leu Trp Leu Lys Asn Asn Met Pro Lys Glu Leu Phe Asp
145                 150                 155                 160
Gln Cys Lys Phe Tyr Asp Leu Ala Asp Ala Leu Thr His Ile Ala Thr
                165                 170                 175
Gly Asn Glu Lys Arg Ser Phe Cys Ser Leu Tyr Thr Gln Pro Gly Asp
            180                 185                 190
Gly Ser Lys Ala Leu Arg
        195
```

<210> 24709
<211> 173
<212> PRT
<213> A.fumigatus

<400> 24709

```
Pro Gly Tyr Gly Leu Leu Met Pro Ser Gly Asp Ile Pro Pro Ser Met
1               5                   10                  15
Ala Ser Leu Pro Tyr Arg Ser Phe Arg Gln Pro Ser Arg Gln Ser Ser
            20                  25                  30
Arg Gln Ala Ser Met Asp Thr Arg Asp Asp Ile Gln Ile His Gln Asp
        35                  40                  45
His Tyr Ile Gly Ile Asp Val Gly Thr Gly Ser Ala Arg Ala Cys Ile
    50                  55                  60
Ile Asp Ala Lys Gly Asn Ile Val Gly Leu Ala Ser Glu Asn Ile Gly
65                  70                  75                  80
Leu Trp Gln Pro Gln Gln Gly Tyr Tyr Val Arg Ile Ser Asp Arg Ala
                85                  90                  95
Ser Ser Val Phe Leu Thr Val Ala Leu Thr Val Arg Gln Arg Asn Asn
            100                 105                 110
Gln Gln Thr Ile Ser Gly Asp Ala Tyr Ala Cys Leu Phe Ser Ala Leu
        115                 120                 125
Ser Ala Ser Ile Thr Ser Thr Arg Leu Leu Ser Ala Glu Leu Gly Ser
    130                 135                 140
Thr Arg Arg Ala His Trp Leu Phe Ser Pro Arg Leu Gln Thr Ser Pro
145                 150                 155                 160
Tyr Leu Ser Pro Gly Arg Thr Leu Ile Leu Thr Ala Thr
                165                 170
```

<210> 24710
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24710
Cys Gly Ala Pro Leu Pro Arg Ala Asp Gln Arg Val His Val Phe Phe
1 5 10 15
Pro Ser Glu Trp Ser Ala Ser Asn Phe Phe Thr Ala Tyr Ile Gly Ile
20 25 30
Pro Ala Phe Leu Val Leu Tyr Phe Gly His Arg Leu Ile Phe Trp Ser
35 40 45
Asp Pro Trp Ala Trp Arg Ser Glu Glu Val Asp Met Gln Thr Gly Leu
50 55 60
Ala Glu Ile Ile Ala Ala Glu Lys Pro Pro Arg Val Arg Asp Thr Trp
65 70 75 80
Trp Lys Lys Leu Met Ala Val Val Glu
85

<210> 24711
<211> 98
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (81)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24711
Phe Pro Phe Ala Ala Ser Ala Pro Ile Gly Ser Gly Ile Glu Val Ile
1 5 10 15
Arg Pro Asn Glu Pro Lys Arg Lys Ser Ala Gln Asn Arg Phe Val Ser
20 25 30
Ser Ile Tyr Leu Val Ser Ser Ser Gly Ile Ala Gln Ser Arg Leu Trp
35 40 45
Asp Ser Ala Ile Ser Arg Tyr Gly Val Thr Ala Arg Val Lys Leu Ala
50 55 60
Leu Gly Gly Ser Arg Lys Val Asn Glu Glu Ile Thr Arg Gly Thr Pro
65 70 75 80
Xaa Arg Cys Asn Gly Val Leu Gly Ser Arg Ser Thr Pro Phe Gly Cys
85 90 95
Leu Met

<210> 24712
<211> 202
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6),(7)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24712
Pro Arg Phe Ala Ser Xaa Xaa Ser Ser Pro Arg Arg Ile Arg Gln Arg
1 5 10 15
Gln Arg Pro Phe Leu Asn Met Ser Ser Trp Pro Arg Ser Ala Trp Ala
20 25 30
Thr Arg Leu Ser Cys Thr Pro Ser Arg Ser Pro His His Arg Pro Pro

```
        35                  40                  45
Ala Ala Pro His Gly Thr Cys Trp Ser Cys Pro Ala Ser Arg Arg Ser
    50                  55                  60
Gly Pro Thr Ser Pro Ala Ala Leu Gln Pro Cys Ser Pro Leu Ser Pro
65                  70                  75                  80
Ser Ala Ser Ser Ser Arg Pro Ser Arg Arg Ser Glu Ala Ser Cys Pro
                85                  90                  95
Arg Thr Trp Gly Pro Pro Arg Gly Phe Pro Arg Ile Ser Ala Arg Pro
            100                 105                 110
Leu Arg Ala Arg Thr Thr Pro Ser Arg Leu Thr Leu Ser Gln Pro His
        115                 120                 125
Pro Arg Ser Arg Pro Ile Pro Ile Pro Gln Ser Arg Pro Ser Glu Ile
    130                 135                 140
Ser Phe Met Pro Val Met Pro Pro Gly Pro Thr Met Pro Met Arg Pro
145                 150                 155                 160
Arg Thr Leu Thr Gln Arg Leu Gln Leu Thr Arg Ser Leu Ser Asp Val
                165                 170                 175
Cys Leu Asn Pro Thr Thr Ser Thr Ser Arg Ala Leu Thr Leu Ile Pro
            180                 185                 190
Pro Ala His Leu Arg His Leu Leu Lys Arg
        195                 200
```

<210> 24713
<211> 278
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24713

```
Arg Ile Pro Glu Gly Gln Gln Gln Thr Ile Met Ala Val Phe Gly Ser
1               5                   10                  15
Asp Gln Ser Ile Glu Val Leu Ala Val Glu Phe Ser Ala Arg Lys Xaa
            20                  25                  30
Tyr Gly Lys Leu Arg Arg Tyr Thr Thr Leu Arg Asp Val His Pro Phe
        35                  40                  45
Ser Met Thr Lys Ile Cys Phe Ser Xaa Phe Ile Pro Pro Ala His Pro
    50                  55                  60
Ser Thr Pro Glu Thr Leu Pro Gln Tyr Val Lys Leu Ala Ser Ile Ser
65                  70                  75                  80
Met Gly Asn Thr Val Val Val His Thr Phe Pro Leu Ala Pro Ser Pro
                85                  90                  95
Pro Ser Ser Arg Thr Pro Arg Tyr Val Leu Val Met Pro Gly Glu Ser
            100                 105                 110
Glu Ile Trp Thr Asn Phe Ala Ser Gly Phe Ala Ala Leu Leu Ser Ile
        115                 120                 125
Ile Thr Val Cys Ile Leu Leu Gln Ala Phe Thr Glu Ile Arg Gly Leu
    130                 135                 140
Met Pro Pro Tyr Leu Gly Ala Ser Ala Trp Leu Pro Pro Asp Ile Arg
145                 150                 155                 160
Ala Ala Ile Ala Arg Pro Tyr His Pro Leu Pro Pro His Pro Leu Pro
                165                 170                 175
Thr Ala Ser Ala Leu Ser Ala His Thr Asp Ser Pro Lys Gln Thr Leu
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            180                 185                 190
Arg Asp Leu Leu His Ala Arg His Ala Ala Gly Ala Asn Asp Ala Asp
        195                 200                 205
Ala Ala Pro Asp Ala Asp Ala Thr Thr Pro Ala Asn Ser Val Phe Val
    210                 215                 220
Arg Cys Leu Pro Glu Ser Asn Asn Ile Tyr Ile Glu Ser Ser Asp Ala
225                 230                 235                 240
His Ser Ser Arg Ser Ser Ser Ser Ser Pro Glu Glu Val Glu Glu Gln
                245                 250                 255
Pro Ser Arg Ser Trp Asp Asp Leu Asp Glu Glu Glu Arg Ser Ala Trp
            260                 265                 270
Asn Gln Arg Leu Ile Asp
        275
```

<210> 24714
<211> 291
<212> PRT
<213> A.fumigatus

<400> 24714

```
Glu His Thr Ile Ala Asp Pro Ala Ala Pro Leu Val Lys Thr Ser Pro
1               5                   10                  15
Val Lys Met Ala Ser Phe Leu Ala Val Ala Ala Tyr Leu Thr Val Ile
            20                  25                  30
Ala Ala Ala His Pro Leu Ser Thr Arg Leu Tyr Pro Thr Val Leu Arg
        35                  40                  45
Arg Asp Thr Thr Ala Thr Ser Val Glu Pro Val Ser Ala Ile Ser Leu
    50                  55                  60
Tyr Tyr Gln Ala Ala Ala Asn Ser Ser Ser Ile Gly Ala Leu Ile Gln
65                  70                  75                  80
Ala Asp Leu Gln Leu Pro Ser Ile Val Leu Glu Asp Val Asn Asp Val
                85                  90                  95
Ser Ser Val Thr Cys Ser Val Asp Ser Leu Thr Val Thr Phe Asn Ser
            100                 105                 110
Thr Thr Thr Phe Asn Gln Ala Tyr Ser Ser Trp Pro Arg Ser His Leu
        115                 120                 125
Leu Leu Val Thr Asn His Leu Gly Asn Cys Asp Ala Glu Ala Asp Arg
    130                 135                 140
Gly Leu Tyr Arg Ala Ala Ser Leu Leu Phe His Pro Ser Thr Leu Thr
145                 150                 155                 160
Ile Thr Ala Ser Thr Arg Lys Thr Asn Leu Gln Gln Gln Ala Lys Thr
                165                 170                 175
Ile Thr Ile Val Phe Gly His Pro Asp Pro Ser Gln His Lys Arg Glu
            180                 185                 190
Leu Ala Thr Ser Ile Asp Leu Ala Trp Ser Gly Asp Leu Ile Arg Thr
        195                 200                 205
Asn Gly Leu Thr Ile His Ala Asn His Ala Thr Leu Asp Ala Ala Ile
    210                 215                 220
Ser Ile Asp Gly Ile Ile Ala Tyr His Val Glu Thr Arg Thr Ala Thr
225                 230                 235                 240
Thr Leu Ser Leu Asp Ile Ala Val Ala Leu Asp Ser Ser Leu Gly Leu
                245                 250                 255
Ser Val Ser Ala Ala Gly Val Val Pro Ala Gln Arg Leu His Ile Pro
            260                 265                 270
Met Glu Pro Pro Ser Lys Ala Gly Gly Phe Ser Ile Pro Gly Asp Leu
        275                 280                 285
```

Asp Ser Gly
290

<210> 24715
<211> 125
<212> PRT
<213> A.fumigatus

<400> 24715
Val Phe Gly Ile Thr Tyr Ile Leu Ala Ser Phe Asn Gln Arg Leu Trp
1 5 10 15
His Phe Ala Leu Thr Gln Asp Val Leu Leu Gly Ile Gly Ala Ser Met
20 25 30
Val Tyr Val Ser Thr Ile Ser Val Ala Leu Thr Trp Phe Asp Gln Arg
35 40 45
Arg Gly Leu Ala Met Gly Ile Phe Ile Ser Gly Ser Gly Val Gly Gly
50 55 60
Ile His Cys Gln Ala Ser Thr Pro Tyr Leu Ser Ser Tyr His Ser Leu
65 70 75 80
Trp Ile Phe Arg Gln Arg Ile His Leu Ala Phe Pro Cys Val Ser Asp
85 90 95
Arg Thr Val Arg Arg Ala Val Leu Asp Gln Arg Glu Arg Gly Pro Cys
100 105 110
Thr Ser Phe Gly Gly Trp Glu Arg Arg Ser Gly Arg Arg
115 120 125

<210> 24716
<211> 135
<212> PRT
<213> A.fumigatus

<400> 24716
Arg Gly Ser Ile Ser Val Val Gly Trp Pro Trp Gly Ser Ser Ser Pro
1 5 10 15
Gly Val Ala Ser Gly Ala Phe Ile Val Lys Arg Arg Arg Leu Ile Tyr
20 25 30
Arg Leu Ile Ile Leu Tyr Gly Ser Phe Ala Ser Ala Tyr Ile Ser Arg
35 40 45
Phe Pro Ala Ser Leu Ile Glu Leu Phe Gly Val Gln Tyr Leu Thr Ser
50 55 60
Val Asn Gly Val Leu Val Pro His Ser Gly Asp Gly Ser Val Asp Arg
65 70 75 80
Asp Ala Val Asp Trp Asn Ala Asp Ser Ser Val Thr Ala Leu Val Ser
85 90 95
Ser Ile Val Tyr Asp Arg Val Gly Ile Asp Cys Gly Val Leu Leu Phe
100 105 110
Ala Ala Thr Leu Ala Cys Val Pro Val Arg Ile Asp Ala Thr Leu Gly
115 120 125
Glu Val Gly Arg Trp Lys Ala
130 135

<210> 24717
<211> 69
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (36)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24717
Leu Gly Asn Arg Val Phe Val Ala Gly His Ser Ser Leu Phe Thr Thr
1 5 10 15
Gly Gly Met His Ser Ala Thr Ile Arg Leu Met Ala Ala Val Pro Gln
20 25 30
Glu Val Ser Xaa Ala Ser Phe Gly Ser Asp Ile Arg Glu Pro Phe Tyr
35 40 45
Gln Phe Ser Cys Pro Arg Pro Trp Ala Asn Pro Ser Ser Asn Ala Phe
50 55 60
Ala Gln Asn Pro Arg
65

<210> 24718
<211> 212
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40),(47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24718
Ser Ser Asn Asp Asp Leu Ser Arg Arg Gly Pro Gly Asn Pro Leu Gln
1 5 10 15
Arg Val Pro Leu Ser Ser Val Arg Pro Val Gln Ala Ser Gly Arg Ala
20 25 30
Asn Ala Leu Pro Gln Glu Ser Xaa Tyr Pro Thr Ser Ser His Xaa Ala
35 40 45
Gly Ala Pro Arg Thr Pro Phe Ala Ser His Thr Gly Leu Pro Pro Leu
50 55 60
Pro Lys Arg Leu Leu Gln Arg Gly Leu Pro Leu His Pro Ser Val Pro
65 70 75 80
Gly Thr Val Arg Asp Ala Ala Lys Asp Thr Thr Leu Leu Gly Tyr Pro
85 90 95
Ile Pro Lys Gly Thr Arg Ile Leu Val Ser Pro Glu Val Ile Asn His
100 105 110
Ser Lys Glu Leu Trp Gly Pro Asp Ala Asp Gln Phe Asn Val Glu Arg
115 120 125
Trp Leu Gly Pro Gly Arg Ala Asn Thr Gly Gly Ala Ser Ser Asn Tyr
130 135 140
Ser Phe Leu Thr Phe Leu His Gly Pro Arg Ser Cys Ile Gly Gln Gly
145 150 155 160
Phe Ala Lys Ala Glu Leu Ala Cys Leu Val Ala Ala Ile Val Gly Arg
165 170 175
Phe Gln Met Glu Leu Lys Asp Ala Asp Ala Lys Leu Glu Val Arg Arg
180 185 190
Ser Ala Thr Val Ala Pro Lys Asp Gly Val Leu Ala Arg Phe Thr Pro
195 200 205
Leu Glu Gly Trp
210

<210> 24719
<211> 252
<212> PRT
<213> A.fumigatus

<400> 24719
Arg Ile Ala Arg Ile Phe Val Arg Arg Gly Glu Asp Pro Arg Arg Ile
1 5 10 15
Asp Leu Ser Arg Ala Leu Asp Arg Met Ile Ala Val Leu Pro Asp Glu
20 25 30
Met Arg Met Gln Ser Leu Leu Arg Pro Leu Glu Ala Thr Gly Gly Glu
35 40 45
Arg Leu Arg Asp Leu Gly Leu Arg Thr Arg Asp Phe Trp Ala Leu Phe
50 55 60
Glu Ala Trp Glu Thr Val His Leu Val Pro Thr Asp Asp Gly Leu Tyr
65 70 75 80
Ile Arg Asp Asp Ile Ile Gln Tyr Leu Lys Arg His Pro Glu Val Ala
85 90 95
Glu Ser Met Val Arg Asn Thr Ala Asp Ile Ile Arg Ser Tyr Glu Ser
100 105 110
Tyr Arg Ser Leu Ile Thr Gln Leu Ser Thr Leu Leu Phe Pro Trp Thr
115 120 125
Ala Pro His Phe Pro Asp His Ile His Leu His Thr Gln Ile His Ser
130 135 140
Gly Gly Arg Gly Leu Val Phe Ser Ala Gly Asp Asn Gln Ala Pro Phe
145 150 155 160
Leu Leu Ala Ser Ile Pro Ala Ile Arg Gln Leu Gly Cys Asp Leu Pro
165 170 175
Ile Glu Val Met Tyr Leu Gly Asp Arg Asp Leu Ser Gln Asp Met Arg
180 185 190
Glu Gln Leu Glu Ala Leu Pro Gly Val Thr Thr Arg Asp Leu Ser Val
195 200 205
Met Val Asn Asp Asn Gly Trp Thr Leu Ala Gly Trp Ala Gly Lys Pro
210 215 220
Phe Ala Ile Leu Phe Ser Ser Phe Arg Glu Ala Ile Phe Ile Asp Ala
225 230 235 240
Arg Phe Ala Val Pro Ala Glu Pro Gly Arg Leu Val
245 250

<210> 24720
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24720
Gln Asn Ser Glu Arg Leu Ile Asn Pro Ala Leu Arg Arg Phe Asp Ile
1 5 10 15
Pro Phe Lys Pro Ile Ser Arg Met Thr Thr Gly Phe Val Ala Ile Ala
20 25 30
Phe Ala Ile Ala Ile Ala Ala Ile Ile Gln Gln Arg Thr Ser Leu Phe
35 40 45
Gly His Phe Gly Gly Arg Ser Asn Ala Arg Met Gln
50 55 60

<210> 24721

<211> 122
<212> PRT
<213> A.fumigatus

<400> 24721
Cys Gln Asn Ala Val Ile Tyr Arg Arg Pro Pro Ser His Val Ser Ile
1 5 10 15
Phe Leu Gln Ile Pro Val Tyr Ala Leu Ile Gly Leu Ser Glu Phe Phe
20 25 30
Ser Ser Leu Ser Ala Met Glu Tyr Ala Tyr Thr Lys Ala Pro Arg Ser
35 40 45
Met Arg Ser Ile Val Ser Ala Leu Phe Leu Leu Thr Cys Thr Ile Gly
50 55 60
Ser Thr Val Gly Ile Thr Leu Ser Pro Val Ser Val Asp Pro Lys Leu
65 70 75 80
Leu Val Glu Tyr Val Ser Leu Ser Ile Val Met Phe Ala Thr Gly Val
85 90 95
Val Phe Tyr Phe Cys Phe Arg Lys Tyr Asn Gln Met Glu Glu Ser Met
100 105 110
Asn Met Ile Gly Glu Thr Ala Gly Lys Gln
115 120

<210> 24722
<211> 157
<212> PRT
<213> A.fumigatus

<400> 24722
His Thr Asp Leu His Pro Gly Asn Leu Phe Val Ser Asn Gly Arg Ile
1 5 10 15
Ser Cys Met Ile Asp Trp Gln Gly Ile Trp Ala Ala Pro Leu Leu Leu
20 25 30
Arg Ala Arg His Pro His Leu Ile Asn Tyr Gln Gly Asp Ile Ile Leu
35 40 45
Lys Pro Leu Val Asn Phe Asn Asn Leu Asp Thr Glu Glu Lys Lys Ile
50 55 60
Ile Arg Asp Lys Met Ser Lys Ser Ile Val Ile Tyr Leu Tyr Glu Lys
65 70 75 80
Gln Ile Ala Lys Glu Val Pro Leu Leu Asn Arg Val Ile His Leu Asn
85 90 95
His Ser Gln Thr Arg Cys Asp Pro Ile Gln Phe Ile Gly Asp Thr Trp
100 105 110
Asp Asp Asp Ile Ile Pro Leu Arg Glu Ser Leu Ile Gln Leu Glu Arg
115 120 125
Gln Val Gln Val Pro Cys Arg Arg Val Phe Ile Lys Gln Arg Ser Asn
130 135 140
Tyr Thr Phe Ser Thr Thr Glu Ala Gly Arg Pro Arg Glu
145 150 155

<210> 24723
<211> 330
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (239)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24723
Asn Ile Lys Gly Trp Asn Asn Phe Ile Leu Phe Ala Leu Gly Thr Thr
1 5 10 15
Leu Pro Val Ser Arg Thr His Lys Leu Phe Ser Trp Gln Ser Arg Met
20 25 30
Lys Glu Leu Tyr Leu His Arg Ala Val Glu Val Gln Pro Cys Phe Asn
35 40 45
Arg Asp Val Leu Arg Asp Leu Ser Asp Arg Ala Thr Thr Ala Arg Leu
50 55 60
Glu Leu Glu Ala Trp Ala Glu Gly Glu Asn Ile Gln Phe Asp Thr Val
65 70 75 80
Arg Pro Ala Asp Arg Val Gly Pro Pro Phe Gly Thr Asp Glu Glu Asp
85 90 95
Leu Asp Ala Gln Ile Leu Gln Ser Ala Thr Thr Gly Ser Leu Gln Thr
100 105 110
Leu Arg Glu Trp Thr Ala Lys Leu His Thr Ala Pro Asp Ala Arg Asp
115 120 125
Arg Ala Thr Arg Ala Phe Leu Ala Ala Ile Asn Glu Tyr Ser Asp Glu
130 135 140
Val Leu Ala Val Leu Leu Glu Ser Gly Leu Val Asp Ile Asn Ala Glu
145 150 155 160
Asp Asp Ile Asn Glu Arg Asn Cys Leu His Glu Ala Ala Ile Ser Gly
165 170 175
Arg Asp Phe Val Phe Lys Thr Gly Ile Ser Ala Gly Val Asp Val Ser
180 185 190
Arg Ser Asp Val Tyr Gly Arg Ile Pro Leu His Tyr Ala Cys Met His
195 200 205
Gly Arg Val Asp Met Val Arg Glu Leu Leu Ala Val Gly Pro Asp Thr
210 215 220
Val Asp Thr Ala Asp His Asn Asn Phe Thr Pro Leu Ile His Xaa Ile
225 230 235 240
Val Lys Asp Gln Leu Ala Cys Ala Glu Gln Leu Leu Gln His Asn Ala
245 250 255
Arg Ile Gly Pro Ala Ser Glu Ser Asp His Ile Pro Leu Asn Leu Ala
260 265 270
Cys Gln His Gly Ser Ile Pro Ile Val Arg Met Leu Leu Glu Arg Asn
275 280 285
Ala Gln Leu Leu Pro Asp Ala Glu Gly Ile Leu Pro Gln His Met Val
290 295 300
Ala Arg Ala Ser Gln Pro Pro Arg Thr Val Ala Ser Ser Ser Asn Ser
305 310 315 320
Thr Glu Leu Asp Leu Lys Pro Arg Asp Leu
325 330

<210> 24724
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24724
Arg Ile Leu Glu Leu Asp Arg Ile His Glu Phe Ile Ile Leu Arg Lys
1 5 10 15
Ile Glu Asn Asp Tyr Ser Leu Arg Arg Gly Ala Ile Gly Ser Ile Ser

```
            20                  25                  30
Glu Ser Thr Ser Arg Glu Asp Asn Asn Gly Asn Glu Asp His Asn Thr
        35                  40                  45
Gly Lys Asp Ala Trp Lys Pro Thr Arg Phe Leu His
    50                  55                  60
```

<210> 24725
<211> 376
<212> PRT
<213> A.fumigatus

<400> 24725

```
Lys Arg Leu Arg Phe Cys Ser Asp Gln Lys Leu Leu Pro Lys Gly Ser
1               5                   10                  15
Val Asn Gln Asn Arg Ala Val Glu Trp Gly Thr Asn Thr Met Thr Gly
            20                  25                  30
Ala Ala Leu Leu Leu Leu Lys Ser Phe Val Gly Thr Gly Val Leu Phe
        35                  40                  45
Leu Pro Arg Ala Phe Leu Asn Gly Gly Met Leu Phe Ser Ser Leu Val
    50                  55                  60
Leu Leu Ala Val Ser Ile Leu Ser Phe Tyr Cys Phe Ile Leu Leu Val
65                  70                  75                  80
Asn Thr Arg Leu Lys Ile Glu Gly Ser Phe Gly Asp Ile Gly Gly Ala
                85                  90                  95
Leu Phe Gly Lys His Met Arg Arg Val Ile Leu Gly Ser Ile Val Leu
            100                 105                 110
Ser Gln Leu Gly Phe Val Ser Ala Tyr Ile Val Phe Thr Ala Glu Asn
        115                 120                 125
Leu Gln Ala Phe Val Leu Ala Val Ser Lys Cys Lys Ser Phe Ile Asp
    130                 135                 140
Ile Lys Phe Met Val Leu Met Gln Leu Val Ile Phe Leu Pro Leu Ser
145                 150                 155                 160
Leu Ile Arg Asp Ile Gly Lys Leu Gly Phe Thr Ala Leu Val Ala Asp
                165                 170                 175
Val Phe Ile Leu Leu Gly Leu Ile Tyr Leu Tyr Tyr Tyr Asp Val Thr
            180                 185                 190
Thr Ile Val Ser Gln Gly Gly Val Ser Asp Ile Lys Ala Phe Asn Pro
        195                 200                 205
Ser Thr Trp Thr Leu Phe Ile Gly Thr Ala Ile Phe Thr Tyr Glu Gly
    210                 215                 220
Ile Gly Leu Ile Ile Pro Ile Gln Glu Ser Met Lys Glu Pro Arg Arg
225                 230                 235                 240
Phe Pro Gly Val Leu Ala Gly Val Met Val Leu Ile Thr Ile Val Val
                245                 250                 255
Leu Ser Ala Gly Ala Leu Arg Tyr Ala Ala Tyr Gly Ser Ala Thr Gln
            260                 265                 270
Thr Val Val Ile Leu Asn Leu Pro Gln Asp Asp Lys Phe Val Asn Ala
        275                 280                 285
Val Gln Phe Gln Tyr Ser Leu Ala Ile Leu Leu Ser Thr Pro Leu Gln
    290                 295                 300
Leu Phe Pro Ala Ile Arg Ile Met Glu Asn Glu Leu Phe Thr Arg Ser
305                 310                 315                 320
Gly Lys Tyr Asn Pro Gly Ile Lys Trp Lys Lys Asn Cys Phe Arg Phe
                325                 330                 335
Phe Leu Val Met Ile Cys Ala Phe Val Ala Trp Gly Gly Ala Asp Asp
            340                 345                 350
```

```
Leu Asp Lys Phe Val Ser Leu Val Gly Ser Phe Ala Cys Val Pro Leu
        355                 360                 365
Ile Tyr Val Tyr Pro Val Cys Leu
    370                 375

<210> 24726
<211> 84
<212> PRT
<213> A.fumigatus

<400> 24726
Gly Ile Arg Leu Arg Thr Thr Gln Thr Thr Thr His Thr His Thr His
1               5                   10                  15
Thr His Thr His Thr His Thr His Thr His Thr His Thr His Thr His
            20                  25                  30
Thr His Thr His Thr His Thr Arg Val Arg Ile Asp Thr Leu Thr Asp
        35                  40                  45
Ala Phe Arg Arg Thr Glu Ile Lys Lys Arg Arg Leu Phe Arg Met Phe
    50                  55                  60
Thr Tyr Arg Gly Ile Asp Leu Glu Gln Tyr Val Gln Leu Ser Phe Ile
65                  70                  75                  80
His Ala Phe Leu


<210> 24727
<211> 104
<212> PRT
<213> A.fumigatus

<400> 24727
Leu Gly Met Cys Tyr Arg Leu Leu Asp Leu Ser Cys Glu Gln Leu Arg
1               5                   10                  15
Asp Val Val His Ala Arg Ala Arg Arg Arg Phe Asn Arg Gly Leu Lys
            20                  25                  30
Arg Lys Pro Met Gly Leu Ile Lys Lys Leu Arg Lys Ala Lys Gln Glu
        35                  40                  45
Ala Lys Pro Asn Glu Lys Pro Glu Leu Val Lys Thr His Leu Arg Asp
    50                  55                  60
Met Ile Ile Val Pro Glu Met Ile Gly Ser Val Ile Gly Ile Tyr Ser
65                  70                  75                  80
Gly Lys Glu Phe Asn Gln Ile Glu Val Lys Pro Glu Met Val Gly His
                85                  90                  95
Tyr Leu Gly Glu Phe Ser Ile Thr
            100

<210> 24728
<211> 325
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24728
```

```
Pro Asp Pro Asp Ala Gln Gln Ile His Arg Ile Gly Pro Thr Lys Pro
1               5                  10                  15
Gln Thr Asp Leu Glu Xaa Thr Ile His Asn Ile Leu Val Glu Ser Gly
            20                  25                  30
Leu Ala Asp Pro Ser Gly Lys Ser Thr Glu Glu Gln Val Gln Glu Phe
        35                  40                  45
Glu Glu Leu Gln Ala Arg Lys Leu Pro Ile Glu Glu Ile Arg Ala Arg
    50                  55                  60
Arg Ala Glu Leu Arg Lys Gln Arg Asp Leu Leu Phe Arg Glu Glu Val
65                  70                  75                  80
Arg Ala Lys Arg Ile Lys Lys Ile Lys Ser Lys Ser Tyr Arg Arg Val
                85                  90                  95
His Arg Lys Glu Arg Glu Arg Leu Gln Gln Gln Glu Arg Gln Ala Leu
            100                 105                 110
Leu Glu Ala Gly Val Asp Leu Glu Glu Glu Asp Arg Glu Met Asn Glu
        115                 120                 125
Arg Arg Arg Ala Glu Ala Arg Met Gly Ala Lys Leu Lys Asp Ser Lys
    130                 135                 140
Trp Ala Lys Ser Leu Lys Gln Thr Gly Arg Thr Ala Trp Asp Glu Asp
145                 150                 155                 160
Ala Arg Arg Gly Ala Ala Glu Gln Ala Leu Lys Glu Glu Glu Leu Arg
                165                 170                 175
Arg Arg Ile Glu Gly Lys Ser Val Ser Arg Ala Asp Glu Asp Tyr Leu
            180                 185                 190
Gly Ser Ser Ser Ser Glu Ser Glu Asp Glu Asp Pro Trp Ala Glu Asp
        195                 200                 205
Ala Gly Ser Asp Ala Glu Lys Gln Lys Leu Arg Lys Lys Leu Glu Gly
    210                 215                 220
Leu Glu Arg Asp Asp Val Asp Ala Ser Glu Ile Thr Gly Pro His Ala
225                 230                 235                 240
Lys Leu Phe Ser Met Lys Phe Met Gln Asn Ala Glu Ala Ala Arg Lys
                245                 250                 255
Ala Glu Asn Asp Ala Glu Ile Arg Arg Leu Asn Arg Glu Leu Arg Gly
            260                 265                 270
Glu Glu Glu Ser Gln Ser Glu Ala Glu Ser Glu Val Gly Arg Arg Lys
        275                 280                 285
Phe Gly Gln Ser Gln Asp Asp Lys Ser Gly Lys Asp Lys Lys Gln Lys
    290                 295                 300
Ser Leu Pro Lys Thr Glu Phe Glu Glu Ala Pro Gly Ser Asp Asp Glu
305                 310                 315                 320
Ala Asp Ala Val Pro
                325
```

<210> 24729
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24729

```
Arg Ile Ile Arg Pro Leu Leu Pro Leu Pro Val Pro Leu Lys Leu Thr
1               5                  10                  15
Leu Phe Thr Phe Val Thr Tyr Ala Leu Leu Asp Pro Val Val Ile Pro
            20                  25                  30
Leu Ser Ile Glu Ile Val Leu Leu Ser Val Ala Ser Arg Cys Ala Phe
        35                  40                  45
Thr Tyr His Val Ile Arg Ala Gln Lys Gly Pro Val Cys Ser
```

50 55 60

<210> 24730
<211> 246
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (220),(235)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24730
Arg Ser Pro Ala Ala Thr Gly Arg Thr Lys Cys Gly Ser Gln Ala Gly
1 5 10 15
Asn Leu Leu His Ser Leu Gly Glu His Ser Gly Pro Val Asn Arg Val
20 25 30
Val Val Ala Pro Asp His Ala Phe Phe Val Thr Ala Ser Asp Asp Gly
35 40 45
Thr Val Lys Ile Trp Asp Thr Thr Arg Leu Glu Lys Asn Leu Thr Pro
50 55 60
Arg Ser Arg Gln Thr Tyr Arg His Ser Ser Gln Ala Lys Val Lys Thr
65 70 75 80
Leu Thr Phe Val Glu Asn Thr His Ala Phe Ile Ser Gly Ala Thr Asp
85 90 95
Gly Ser Ile His Val Val Lys Val Asp Tyr His Asn Val Asn Asp Thr
100 105 110
Val Arg Tyr Gly Lys Leu Gln Leu Val Arg Asp Tyr Gln Leu Pro Ala
115 120 125
Thr Glu Asp Gly Ser Val Glu Tyr Pro Leu Trp Ile Glu His Phe Arg
130 135 140
Ser Asp Ala Gln Ser Thr Leu Leu Ile Ala Thr Asn Thr Cys Arg Ile
145 150 155 160
Leu Ala Leu Asp Met Lys Thr Met Leu Pro Ile Tyr Ser Leu Gln Asn
165 170 175
Pro Val His His Gly Ile Pro Thr Thr Phe Cys Cys Asp Arg Lys His
180 185 190
Asn Trp Leu Leu Val Gly Thr Thr His Gly Val Leu Asp Leu Trp Asp
195 200 205
Leu Arg Phe Gln Val Arg Leu Lys Ala Trp Cys Xaa Pro Gly Ser Gly
210 215 220
Ala Ile Leu Arg Leu Gln Val His Pro Thr Xaa Gly Arg Gly Arg Trp
225 230 235 240
Val Ala Ser Arg Ala Val
245

<210> 24731
<211> 261
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(49),(60)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24731
Ala Pro Gly Pro Ser Asp Xaa Gly Thr Trp Ala Val Gly Cys Val Ser
1 5 10 15
Ser Ser Val Lys Ser Arg Asn Glu Ile Thr Ser Trp Asp Ile Glu Lys
20 25 30
Ile Arg Cys Arg Glu Val Tyr His Ala Asp Phe Ala Arg Lys Gln Tyr
35 40 45
Xaa Cys Pro Thr Glu Asp Leu Ala Ala Phe Gln Xaa Ile Asn Ala Lys
50 55 60
Ala Lys Ser Ala Phe Val Asn Thr Arg Asp Tyr Glu Ala Trp His Ile
65 70 75 80
Glu Ser Asp Arg Pro Glu Gly Met Leu Ser Arg Phe Gly Thr Glu Gly
85 90 95
Gln Leu Ser Gly Ala Ile Glu Ser Ser Gly Pro Ser Ala Ala Ser Thr
100 105 110
Pro Ala Gly Ile Cys Ala Phe Ala Val Gly Tyr Asp Ser Pro Glu Asp
115 120 125
Gly Lys Asp Asn Ser Thr Arg Cys Gly Phe Ile Val Ser Gly Gly Cys
130 135 140
Asp Arg Lys Ile Arg Phe Trp Asp Leu Ala Arg Pro Glu Leu Ser Thr
145 150 155 160
Ile Val Ser Gly Gln Asp Ile Val Ser Glu Gly Gly Val Ser Gly Lys
165 170 175
Pro Arg Tyr Glu Leu Ser Gln Pro Leu Pro Asn Leu Leu Val Thr Thr
180 185 190
Glu His Ile Pro Gly Pro Pro Ala Ala Ser Ser Ala Gly Ser Lys Gly
195 200 205
Ser Ser Lys Lys Gly Gly Gly Ala Arg Leu Pro Arg Ser Thr Val Ile
210 215 220
Ser Leu Gln Gln Gln Gln Leu Leu Lys Ser His Leu Asp Phe Ile Gln
225 230 235 240
Asp Val Ala Val Leu Arg Val Pro Ser Ser Pro Arg Gly Glu Lys Asp
245 250 255
Pro Thr Met Ala Leu
260

<210> 24732
<211> 152
<212> PRT
<213> A.fumigatus

<400> 24732
Gln Pro Cys Arg Gly Ser Ser Trp Arg Pro Ser Gly His Pro Cys His
1 5 10 15
Arg Thr Cys Val Gln Ser Asp Ala Trp Gln Arg Leu Ala Gln Thr Leu
20 25 30
Gln Leu Ser Lys Pro Pro Leu Lys Asp Ser Leu Asn Val Lys Asp Gly
35 40 45
Pro Gly Arg Val Arg Gly Val Leu Val Leu Gly Gly Val Thr Asn Gln
50 55 60
Thr Leu Phe Ile Ser Glu Gly Asp Ile Gly Arg Ser Asp Thr Val Ser
65 70 75 80
Leu Val Val Gly Asp Asp Phe Asn Leu Ser Val Leu His His Thr Asp
85 90 95
Thr Arg Val Cys Cys Ser Lys Ile Asp Thr Asp Asp Cys Gly Gln His
100 105 110

```
Asp Leu Ala Arg Glu Leu His Asp Phe Gly Lys Thr Ile Ser Lys Thr
        115                 120                 125
Tyr Gln Cys His Ser Phe Pro Val Leu Ser Leu Pro Gln Arg Val Arg
    130                 135                 140
Phe Arg Lys Lys Pro Met Ala Gln
145                 150
```

<210> 24733
<211> 71
<212> PRT
<213> A.fumigatus

<400> 24733

```
Ile Val Leu Ser Thr Val Ile Gly Ile Asp Leu Gly Thr Thr Tyr Ser
1               5                   10                  15
Cys Val Gly Val Met Gln Asn Gly Lys Val Glu Ile Ile Ala Asn Asp
            20                  25                  30
Gln Gly Asn Arg Ile Thr Pro Ser Tyr Val Ala Phe Thr Asp Glu Glu
        35                  40                  45
Arg Leu Val Gly Asp Ala Ala Lys Asn Gln Tyr Ala Ser Asn Pro Thr
    50                  55                  60
Arg Thr Ile Phe Asp Ile Lys
65                  70
```

<210> 24734
<211> 113
<212> PRT
<213> A.fumigatus

<400> 24734

```
Thr Val His Phe Phe Ile Thr Phe Ile Val Lys Glu Leu Leu Ser Thr
1               5                   10                  15
Pro His Ile Leu Thr Met Ser Arg Leu Ser Ser Arg Asn Gly Ala Ala
            20                  25                  30
Lys Pro Phe Thr Ala Trp Thr Thr Val Phe Tyr Leu Leu Leu Val Phe
        35                  40                  45
Ile Ala Pro Leu Ala Phe Phe Gly Thr Ala His Ala Glu Glu Asp Ser
    50                  55                  60
Val Gln Glu Asn Tyr Gly Thr Gly Met Ser Trp Ile Leu Phe Phe Arg
65                  70                  75                  80
Asn His Glu Val Leu Val Leu Asn Arg Ala Val His Ser His Arg Tyr
                85                  90                  95
Arg Ser Trp Asn Asn Ile Leu Leu Cys Arg Cys Asp Ala Glu Arg Lys
            100                 105                 110
Gly
```

<210> 24735
<211> 122
<212> PRT
<213> A.fumigatus

<400> 24735

```
Val Ser Leu Ser Met Glu Val Trp Ile Ala Glu Glu Phe Val Leu Thr
1               5                   10                  15
Ser Ala Arg Arg Leu Ile Gly Arg Lys Phe Asp Asp Lys Asp Val Gln
```

```
            20                  25                  30
Lys Asp Ala Lys Asn Phe Pro Tyr Lys Val Val Asn Lys Asp Gly Lys
        35                  40                  45
Pro Val Val Lys Val Glu Val Asn Lys Ser Pro Lys Ile Phe Thr Pro
    50                  55                  60
Glu Glu Val Ser Ala Met Val Leu Gly Lys Met Lys Asp Ile Ala Glu
65                  70                  75                  80
Gly Tyr Leu Gly Lys Lys Val Thr His Ala Val Val Thr Val Pro Ala
                85                  90                  95
Tyr Phe Asn Asp Ala Gln Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile
            100                 105                 110
Asp Gly Leu Asn Val Phe Ser Thr Thr Val
        115                 120
```

<210> 24736
<211> 343
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24736

```
Phe Gly Ser Cys Xaa Cys Ile Pro Ser Glu Glu Thr Arg Leu Asn Asp
1               5                   10                  15
Ile Ala Gly Val Ile Thr Lys Met Lys Val Asn His Ala Ser Leu Thr
            20                  25                  30
Pro Ser Phe Val Gly Phe Leu Asp Pro Ala Ala Val Pro Gly Leu Glu
        35                  40                  45
Ser Leu Val Leu Ala Gly Glu Ala Met Ser Pro Gln His Leu Ala Thr
    50                  55                  60
Trp Ser His Ile Lys Leu Val Asn Gly Tyr Gly Pro Thr Glu Ser Ser
65                  70                  75                  80
Val Ala Ala Ala Leu Asn Pro Asn Met Ser Ser Ser Ser Asp Cys Arg
                85                  90                  95
Asp Ile Gly Leu Pro Val Gly Val Arg Phe Trp Val Val Asn Pro Ala
            100                 105                 110
Asn His Asp Gln Leu Val Pro Val Gly Cys Pro Gly Glu Leu Val Leu
        115                 120                 125
Glu Gly Pro Thr Leu Ala Arg Cys Tyr Ile Asn Asn Pro Gln Lys Thr
    130                 135                 140
Ser Asp Ser Phe Ile Phe Asn Pro Cys Trp Thr Lys Arg Asp Pro Asn
145                 150                 155                 160
Gly Gly Ser Asp Arg Arg Phe Tyr Lys Thr Gly Asp Leu Val Arg Tyr
                165                 170                 175
Asn Ser Glu Ser Gly Ser Leu Thr Tyr Ile Gly Arg Lys Asp Ala Gln
            180                 185                 190
Val Lys Phe His Gly Gln Arg Val Glu Leu Gly Glu Ile Glu Ser Gln
        195                 200                 205
Leu Ser Ala Asp Thr Asp Ile Lys His Cys Thr Val Leu Leu Pro Lys
    210                 215                 220
Ser Gly Phe Ala Gln Gly Lys Leu Val Thr Val Val Ser Leu Ser Ala
225                 230                 235                 240
Gly Pro Gly Gln Ala Leu Glu Ala Asp Ala Val Pro Leu Lys Leu Ile
```

```
                245                 250                 255
Glu His Arg Glu Lys Leu Arg Tyr Val Lys Ser Ile Gln Glu Arg Leu
            260                 265                 270
Ser Ile Arg Leu Pro Thr Tyr Met Val Pro Gly Val Trp Leu Cys Val
        275                 280                 285
Glu Ala Leu Pro Met Leu Val Ser Gly Lys Leu Asp Arg Lys Ser Ile
    290                 295                 300
Ala Thr Trp Val Ala Ser Met Ser Glu Glu Pro Glu Val His Ala Thr
305                 310                 315                 320
Glu Ala Ala Asn Ala Arg Ala Ala Asn Ser Thr Glu Asp Gln Leu Val
                325                 330                 335
Ser Ile Trp Ser Arg Val Leu
            340
```

<210> 24737
<211> 286
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (256)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24737

```
His Thr Ser Leu Tyr Val Cys Trp Gln Leu Tyr Arg Met Pro Ile Val
1               5                   10                  15
Asp Ser Val Gln Val Asn Cys Leu His Glu Val Phe Phe Glu Ala Ala
            20                  25                  30
Ile Glu Asp Ala Arg Arg Leu Asp Ala Tyr Phe Ala Glu His Lys Lys
        35                  40                  45
Pro Val Gly Pro Leu His Gly Leu Pro Val Ser Leu Lys Asp Gln Phe
    50                  55                  60
His Val Arg Gly Val Glu Thr Thr Met Gly Tyr Val Gly Trp Ile Gly
65                  70                  75                  80
Thr Phe Gln Gly Lys Lys Gly Asp Pro Arg Arg Gly Val Phe Glu Ser
                85                  90                  95
Glu Leu Val Arg Glu Leu Arg Asn Leu Gly Ala Val Pro Tyr Cys Lys
            100                 105                 110
Thr Ser Val Pro Ala Thr Leu Met Thr Gly Glu Thr Val Asn His Ile
        115                 120                 125
Ile Lys Tyr Thr Thr Asn Pro Gln Asn Arg Leu Leu Ser Cys Gly Gly
    130                 135                 140
Ser Ser Gly Gly Glu Gly Ala Leu Ile Ala Leu Arg Gly Ser Pro Gly
145                 150                 155                 160
Gly Phe Gly Thr Asp Ile Gly Gly Ser Val Arg Ile Pro Ala Val Phe
                165                 170                 175
Asn Gly Leu Tyr Gly Leu Arg Pro Ser Ser Gly Arg Met Pro Tyr Glu
            180                 185                 190
Gly Ala Ala Asn Ser Ile Asp Gly Gln Asn Thr Ile Leu Ser Val Ile
        195                 200                 205
Gly Pro Leu Ala Thr Thr Val Arg Ser Leu Arg Leu Leu Phe Lys Ala
    210                 215                 220
Val Leu Ser Gln Lys Pro Trp Phe His Asp Pro Leu Val Leu Glu Met
225                 230                 235                 240
Pro Trp Arg Glu Asp Ile Glu Arg Glu Val Gly Ala Leu Val Lys Xaa
```

```
                245                 250                 255
Ser Ala Thr Asp Pro Ser Lys Leu Ala Phe Ala Val Met His Asn Asp
            260                 265                 270
Gly Ile Leu Met Pro His Pro Pro Ile Ala Arg Ala Met Lys
        275                 280                 285

<210> 24738
<211> 97
<212> PRT
<213> A.fumigatus

<400> 24738
Leu Lys Arg Gly Ser Val Gly Pro Cys Gly Arg Arg His Ala Ile Pro
1               5                   10                  15
Ala Lys Trp Arg Ile Gln Asn Pro Ile Pro Ser Pro Ser Glu Leu Arg
            20                  25                  30
Asp Val Thr Gly Tyr Ile Glu Gln Phe Leu Thr Ala Arg Glu Leu Glu
        35                  40                  45
Ile Thr Gly Asn Asp Ala Val Asp Ile Val Lys Gln Thr Thr Ser Gly
    50                  55                  60
Asn Trp Thr Ala Val Glu Val Thr Glu Ala Phe Cys His Arg Ala Ala
65                  70                  75                  80
Leu Ala His Gln Leu Val Arg Leu Leu Ala Thr Ile Pro Tyr Ala Asp
                85                  90                  95
Cys


<210> 24739
<211> 114
<212> PRT
<213> A.fumigatus

<400> 24739
Arg Pro Leu Asn Thr Ala Gly Ile Arg Thr Leu Pro Pro Ile Ser Val
1               5                   10                  15
Pro Lys Pro Pro Gly Glu Pro Leu Arg Ala Ile Ser Ala Pro Ser Pro
            20                  25                  30
Pro Glu Leu Pro Pro His Glu Arg Ser Arg Phe Cys Gly Leu Val Val
        35                  40                  45
Tyr Leu Met Ile Trp Leu Thr Val Ser Pro Val Ile Arg Val Ala Gly
    50                  55                  60
Thr Leu Val Leu Gln Tyr Gly Thr Ala Pro Arg Leu Arg Ser Ser Leu
65                  70                  75                  80
Thr Ser Ser Leu Ser Asn Thr Pro Leu Leu Gly Ser Pro Phe Leu Pro
                85                  90                  95
Trp Asn Val Pro Ile Gln Pro Thr Tyr Pro Ile Val Val Ser Thr Pro
            100                 105                 110
Arg Thr


<210> 24740
<211> 119
<212> PRT
<213> A.fumigatus

<400> 24740
```

```
Lys Thr Val Asn Gln Asn Asn Pro Ile Ser Arg Leu Val Ile Ile Arg
1               5                  10                  15
Met Arg Leu Leu Ser Thr Leu Thr Leu Leu Val Ser Ala Val Ala Ala
            20                  25                  30
Asn Pro Met Phe His Thr Ala Arg Gln Asp Thr Ser Ala Thr Lys Pro
        35                  40                  45
Phe His Leu Lys Thr Ala Asp Ala Ser Asn Glu Lys His Asn Asp Leu
    50                  55                  60
Tyr Val Tyr Ala Tyr His Thr Gly Ala Gly Phe Asn Asp Ala Val Leu
65                  70                  75                  80
Thr Pro Asp Lys Asp Thr Ala Ser Thr Ala Phe Leu Asn Gly Thr Tyr
                85                  90                  95
Thr Gln Phe Asp Leu Lys Thr Pro Phe Pro Trp Gly Phe Lys Pro Ile
            100                 105                 110
Ala Val Thr Asn Tyr Ala Arg
        115
```

<210> 24741
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24741

```
Val Cys Gln Arg Pro Val Gln Phe Pro Ile Arg Gly Gln Tyr Tyr Val
1               5                  10                  15
Ile Ala Ala Ala Phe Gly Lys Ile Gly Val Leu Val Gly Asn Tyr Val
            20                  25                  30
Phe Pro Ile Ile Gln Asn Asn Ala Pro Asn Asp Val Arg Gln Gly Gln
        35                  40                  45
Asp Leu Asn Phe Val Ser Ser Ser Xaa Cys Ile Phe Ser Ala Phe Leu
    50                  55                  60
Ala Tyr Phe Leu Leu Pro Leu Ile Gly Gln Val Cys Ser
65                  70                  75
```

<210> 24742
<211> 211
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (168),(171)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24742

```
Leu Asp Gln Val Leu Asp Cys Arg Ala Glu Val Thr Pro Asp Ala Gln
1               5                  10                  15
Leu Leu Gln Ser Asp Asn His Val Phe Pro Arg Arg Gly Thr Val Leu
            20                  25                  30
Thr Val Gly Lys Asp Val Thr Glu Leu Ala Val Gly Glu Ala Val Asp
        35                  40                  45
```

```
Thr Thr Gly Gly Thr Asp Gly Glu Val Thr Pro Asp Val Gly Arg Thr
    50                  55                  60
Ala Glu Val Gln Phe Met His Gly Thr Ala Gly Gly Leu Glu Thr Phe
65                  70                  75                  80
Ala Gly Ile Phe Gly Ser Asp Thr Ala Gly Gly Arg Val Ser Leu Gly
                85                  90                  95
Leu Lys Ala Ala Leu Arg Phe Glu Ala Leu Phe Ala Gly Glu Val Glu
            100                 105                 110
Val Asn Leu Gly Arg Gly Val Gly Val Asn Pro Val Lys Gln Thr Asp
        115                 120                 125
Val Thr Asp Ala Val Gln Lys Asp Thr His Gly Asp Leu Gln Leu Gly
    130                 135                 140
Gly Trp Gln Val Asp Thr Gly Asp His Phe Gly Gly Gly Val Leu Asp
145                 150                 155                 160
Leu Lys Thr Lys Val Gln Leu Xaa Glu Val Xaa Leu Val Ile Gly Val
                165                 170                 175
Arg Val Gln Val Leu Asp Arg Thr Arg Gly Asp Val Thr Asn Gln Leu
            180                 185                 190
Ser Glu Ala Glu His Arg Thr Leu His Gly Leu Glu Thr Trp Arg Ala
        195                 200                 205
Trp Arg Trp
    210
```

<210> 24743
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (91),(94)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24743

```
Ile Gln Glu Ser Trp Trp Pro Met Pro Arg Leu Trp Glu Ser Pro Gly
1               5                   10                  15
Gly Gly Val Asn Arg Tyr Gly Asn His Ile Phe Leu Val Gly Arg Arg
            20                  25                  30
Leu Phe Arg Asn Arg Val Val Asn Gln Lys Ile Ile Gly Gly Gly Pro
        35                  40                  45
Arg Ser Pro Ser Pro Ser Pro Pro Ser Phe Gln Ala Met Glu Arg Ala
    50                  55                  60
Val Phe Ser Leu Gly Lys Leu Val Gly Tyr Val Ser Ala Gly Thr Val
65                  70                  75                  80
Glu Tyr Leu Tyr Ser His Ala Asp Asp Lys Xaa Tyr Phe Xaa
                85                  90
```

<210> 24744
<211> 495
<212> PRT
<213> A.fumigatus

<400> 24744

```
Glu Leu Asn Leu Arg Phe Gln Val Glu His Pro Thr Thr Glu Met Val
1               5                   10                  15
Ser Gly Val Asn Leu Pro Ala Ala Gln Leu Gln Ile Ala Met Gly Ile
```

```
            20                  25                  30
Leu Leu His Arg Ile Gly Asp Ile Arg Leu Leu Tyr Gly Val Asp Pro
        35                  40                  45
Asn Thr Ser Ser Glu Ile Asp Phe Asp Phe Ser Ser Glu Glu Ser Phe
    50                  55                  60
Lys Thr Gln Arg Arg Leu Gln Pro Lys Gly His Thr Thr Ala Cys Arg
65                  70                  75                  80
Ile Thr Ser Glu Asp Pro Gly Glu Gly Phe Lys Pro Ser Ser Gly Thr
                85                  90                  95
Met His Glu Leu Asn Phe Arg Ser Ser Ser Asn Val Trp Gly Tyr Phe
            100                 105                 110
Ser Val Gly Thr Ala Gly Gly Ile His Ser Phe Ser Asp Ser Gln Phe
        115                 120                 125
Gly His Ile Phe Ala Tyr Gly Glu Asn Arg Ser Ala Ser Arg Lys His
    130                 135                 140
Met Val Val Ala Leu Lys Glu Leu Ser Ile Arg Gly Asp Phe Arg Thr
145                 150                 155                 160
Thr Val Glu Tyr Leu Ile Lys Leu Leu Glu Thr Pro Ala Phe Glu Asp
                165                 170                 175
Asn Thr Ile Thr Thr Gly Trp Leu Asp Gln Leu Ile Ser Asn Lys Leu
            180                 185                 190
Thr Ala Glu Arg Pro Asp Pro Ile Val Ala Val Leu Cys Gly Ala Val
        195                 200                 205
Thr Lys Ala His Leu Ala Ser Glu Gly Gly Val Glu Glu Tyr Arg Lys
    210                 215                 220
Gly Leu Glu Lys Gly Gln Val Pro Ser Asn Asp Val Leu Lys Thr Val
225                 230                 235                 240
Phe Pro Val Asp Phe Ile Tyr Glu Gly Gln Arg Tyr Lys Phe Thr Ala
                245                 250                 255
Thr Arg Ala Gly Leu Asp Ser Tyr His Leu Phe Ile Asn Gly Ser Lys
            260                 265                 270
Cys Ser Val Gly Val Arg Ala Leu Ala Asp Gly Gly Leu Leu Val Leu
        275                 280                 285
Leu Asn Gly Arg Ser His Asn Val Tyr Trp Lys Glu Glu Ala Ala Ala
    290                 295                 300
Thr Arg Leu Ser Val Asp Gly Lys Thr Cys Leu Leu Glu Gln Glu Asn
305                 310                 315                 320
Asp Pro Thr Gln Leu Arg Ser Pro Ser Pro Gly Lys Leu Val Lys Phe
                325                 330                 335
Thr Val Glu Asn Gly Glu His Val Lys Ala Gly Gln Ala Phe Ala Glu
            340                 345                 350
Val Glu Val Met Lys Met Tyr Met Pro Leu Ile Ala Gln Glu Asp Gly
        355                 360                 365
Ile Val Gln Leu Ile Lys Gln Pro Gly Ser Thr Leu Glu Ala Gly Asp
    370                 375                 380
Ile Leu Gly Ile Leu Ala Leu Asp Asp Pro Ser Arg Val Thr His Ala
385                 390                 395                 400
Gln Pro Phe Thr Gly Gln Leu Pro Asp Leu Gly Pro Pro Gln Val Val
                405                 410                 415
Gly Asn Lys Pro Pro Gln Arg Phe Ser Leu Leu His Ser Ile Leu Glu
            420                 425                 430
Asn Ile Leu Met Gly Tyr Asp Asn Gln Val Ile Met Asn Thr Thr Leu
        435                 440                 445
Lys Glu Pro Val Glu Val Leu Arg Asp Pro Glu Leu Pro Tyr Arg Glu
    450                 455                 460
Trp Lys Arg Ser Val Phe Leu Pro Phe Asn Leu Val Ile Pro Gln Asn
```

```
465                 470                 475                 480
Leu Gly Arg Pro Thr Ser Lys Thr Pro Ser Lys Gln Gly Gln Pro
                485                 490                 495

<210> 24745
<211> 154
<212> PRT
<213> A.fumigatus

<400> 24745
Ile Gly Leu Tyr Thr Leu Leu Asn Ser Ser Leu Pro Ala Arg Ser Ile
1               5                   10                  15
Trp Tyr Ala Leu Ser Thr Phe Glu Tyr Ser Asp Asn Ala Phe Val Met
            20                  25                  30
Ala Ser Met Asp Lys Val Phe Ser Gly Tyr Tyr Ala Arg Gln Lys Leu
        35                  40                  45
Leu Glu Arg Ser Asp Asn Pro Phe Ser Lys Gly Ile Ala Tyr Val Glu
    50                  55                  60
Gly Lys Leu Val Leu Pro Ser Asp Ala Arg Ile Pro Leu Leu Asp Glu
65                  70                  75                  80
Gly Phe Met His Ser Asp Leu Thr Tyr Asp Val Ile Ser Val Trp Asp
                85                  90                  95
Gly Arg Phe Phe Arg Leu Asp Asp His Leu Gln Arg Ile Leu Glu Ser
            100                 105                 110
Cys Asp Lys Met Arg Leu Lys Phe Pro Leu Ala Leu Ser Ser Val Lys
        115                 120                 125
Asn Ile Leu Ala Glu Met Val Ala Lys Arg Gly Ile Arg Ala Cys Pro
    130                 135                 140
Tyr Thr Thr Gly Ile Gly Arg Asn Ile Pro
145                 150

<210> 24746
<211> 385
<212> PRT
<213> A.fumigatus

<400> 24746
Lys His Tyr Leu Gly Phe Ala Gln Ser Glu Gly Pro Cys Ala Asp His
1               5                   10                  15
Ala Glu Asp Thr Leu Arg Lys Tyr Gly Ile Ser Ala Pro Ser Thr Arg
            20                  25                  30
Ala Glu Val Gly Thr Gln Asp Leu His Ala Glu Val Glu Ser Leu Val
        35                  40                  45
Ala Ser Phe Val Gly Lys Glu Ala Ser Met Val Phe Ser Met Gly Phe
    50                  55                  60
Gly Thr Asn Ala Asn Ile Phe Pro Ala Leu Val Asn Lys Gly Cys Leu
65                  70                  75                  80
Ile Ile Ser Asp Glu Leu Asn His Ala Ser Ile Arg Phe Gly Ala Arg
                85                  90                  95
Leu Ser Gly Ala Ser Ile Gly Met Phe Lys His Asn Asp Met Lys Asp
            100                 105                 110
Leu Glu Ala Lys Leu Arg Glu Ala Ile Ser Gln Gly Gln Pro Arg Thr
        115                 120                 125
His Arg Pro Trp Lys Lys Ile Leu Val Val Val Glu Gly Leu Tyr Ser
    130                 135                 140
Met Glu Gly Ser Met Cys Asn Leu Pro Gly Leu Ile Ala Leu Lys Arg
```

```
145                 150                 155                 160
Arg Tyr Lys Phe His Leu Phe Val Asp Glu Ala His Ser Ile Gly Ala
                165                 170                 175
Ile Gly Pro Lys Gly Arg Gly Val Cys Asp Tyr Phe Ser Ile Asp Thr
            180                 185                 190
Lys Glu Val Asp Ile Leu Met Gly Thr Leu Thr Lys Ser Phe Gly Ala
        195                 200                 205
Asn Gly Gly Tyr Ile Ala Ala Asp Lys Ala Met Ile Asp Lys Leu Arg
    210                 215                 220
Ala Thr Asn Ser Gly Ile Phe Tyr Gly Glu Ala Pro Ala Pro Ala Ile
225                 230                 235                 240
Leu Ala Gln Ile Ser Ser Ala Leu Arg Ile Ile Asn Gly Glu Ile Val
                245                 250                 255
Pro Gly Gln Gly Glu Glu Arg Leu Gln Arg Leu Ala Phe Asn Ser Arg
            260                 265                 270
Tyr Leu Arg Leu Gly Leu Lys Arg Leu Gly Phe Ile Val Tyr Gly His
        275                 280                 285
Asp Asp Ser Pro Ile Ile Pro Val Leu Leu Phe Asn Pro Ala Lys Met
    290                 295                 300
Pro Ala Phe Ser His Glu Met Leu Arg Arg Lys Ile Ser Val Val Val
305                 310                 315                 320
Val Gly Tyr Pro Ala Thr Pro Leu Val Ser Ser Arg Ala Arg Phe Cys
                325                 330                 335
Val Ser Ala Ala His Thr Lys Glu Asp Leu Asp Arg Val Leu Thr Ala
            340                 345                 350
Cys Asp Glu Ile Gly Asn Val Leu Gln Leu Lys Phe Ser Thr Gly Ile
        355                 360                 365
Ala Gly Gly Ala Leu Pro Val Phe Thr Thr Gly Leu Glu Gly Ala Ala
    370                 375                 380
Pro
385

<210> 24747
<211> 309
<212> PRT
<213> A.fumigatus

<400> 24747
Arg Leu Val Val Asp Arg Thr Val Leu Pro Glu Ser Tyr Ser Thr Thr
1               5                   10                  15
Ser Thr Ala Ile Pro Phe Thr Gly Asp Gly Arg Arg Asp Arg Arg Thr
            20                  25                  30
Lys Asn Gly Pro Ser Phe Glu Leu Thr Val Ser Gly Gly Ser Arg Glu
        35                  40                  45
Ser Ser Ile Lys Ser Pro Gln Asn Lys Ala Leu Ala Pro Trp Val Arg
    50                  55                  60
Ser Ile Asn Pro Cys Asn Thr Ser Arg Asp Val Leu Arg Asp Thr Ser
65                  70                  75                  80
Trp Phe Gly Arg Trp Gln His Ala Tyr Pro Arg Pro Pro His Val Ala
                85                  90                  95
Val Val Lys Trp Lys Ser Leu Lys Ser Pro Ala Ile Leu Pro Leu Thr
            100                 105                 110
Thr Glu Glu Phe Pro Thr Ala Gln Glu Leu Gly Ser Asp Tyr Leu Gln
        115                 120                 125
Thr Pro Tyr Arg Val Phe Pro Asn Asp Asp Pro Glu Gly Val Glu Val
    130                 135                 140
```

```
Pro Lys Thr Arg Gly Ile Leu Leu Arg Glu Met Ile Ser Leu Arg Leu
145                 150                 155                 160
Ser His Gly Phe Gln Ile Val Ile Gly Lys His Val Ala Glu Val Ser
                165                 170                 175
Gly Gln Pro Ala Leu Glu Thr Leu Asn Val Phe Asp Thr Arg Ser Leu
            180                 185                 190
Glu Arg Asp Gly Ala Thr Val Phe Leu Ser Lys Gly Asn Thr Ile His
        195                 200                 205
Arg Leu Ile Cys Val Asp Gly Gly Glu Ile Glu Val Thr Arg Phe Thr
    210                 215                 220
His Arg Thr Ser Ser Thr Leu Ala Ala Gly Lys Arg Asp Gly Phe Ser
225                 230                 235                 240
Leu Tyr Thr Pro Ala Met Arg Thr Ile Leu Ser Thr Glu Tyr Glu Leu
                245                 250                 255
Lys Asn Ile Lys Leu Asp Pro Thr Ala Glu Asp Tyr Asn Trp Asn Tyr
            260                 265                 270
Ala Asp Asn Tyr Val Ala Gly His Arg Asp Tyr Leu Phe Asn Pro Ala
        275                 280                 285
Gln Gln Leu Gln Phe Trp Arg Val Arg Ser Ser Arg Thr Gly Ile Asn
    290                 295                 300
Ser Arg Ser Met Gly
305
```

<210> 24748
<211> 182
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (43)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24748
Cys Lys Arg Pro Asn Gly Leu Ser Glu Gln Thr Pro Lys Ile Ile Glu
1               5                   10                  15
Pro Glu Pro Lys Arg Val Ala Ala Glu Ala Ala Glu Glu Leu Arg Arg
            20                  25                  30
Ala Gly Glu Ala Ala Arg Ser Phe Pro Ile Xaa Thr Pro Thr Trp Thr
        35                  40                  45
Gly Gln Phe Gly Val Ala Gly Arg Pro Glu Glu Arg Pro Leu Pro Ser
    50                  55                  60
Ala Phe Gly Gly Arg Ser Ser Thr Ala Arg Arg Thr Ala Ala Gly Pro
65                  70                  75                  80
Ser Ser Ala Ser Ile Leu Ala Asn Leu Ser Ala Arg Thr Pro Ser Ser
                85                  90                  95
Arg Ser Ala Thr Asn Ser Pro Ala Pro Ser Arg Ser Pro Thr Gly Val
            100                 105                 110
Asp Phe Met Thr Met Ile Arg Asp Tyr Ile Leu Ser Gln Gly Gly Ala
        115                 120                 125
Val Tyr Thr Gln Met Leu Ile Asp His Phe Asn Arg Tyr Cys Thr Thr
    130                 135                 140
Pro Gln Arg Ser Ala Glu Phe Lys Glu Met Leu Lys Thr Ile Ala Val
145                 150                 155                 160
Leu Glu Lys Gly Gly Arg Asn Gly Arg Gly Arg Trp Ser Leu Lys Pro
                165                 170                 175
```

Glu Phe Ala Lys Val Lys
180

<210> 24749
<211> 164
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (20),(22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24749
Ser Thr Ser Phe Arg Pro Pro Thr Ser Gly Ile Val Arg Asp Phe Arg
1 5 10 15
Ser Ser Val Xaa Ala Xaa Glu Phe Val Leu Phe Val Lys Ser Ser Ile
20 25 30
Phe Ala Pro Tyr Phe Asp Asn Phe Ala Leu Ser Ile Asp Pro Leu Leu
35 40 45
Glu Lys Asn Cys Asp Leu Leu Leu Asp Ser Ile Glu Thr His His Thr
50 55 60
Glu Thr Asn Asn Phe Gln Tyr Tyr Gln Arg Ser Leu Ala Arg Glu Gln
65 70 75 80
Gln Arg Ile Ser Ala Trp Gln Gln Lys Arg Lys Gln Glu Asn Ala Thr
85 90 95
Arg Ala Ala Leu Lys Gln His Phe Leu Pro Glu Asp Glu Trp Gln Arg
100 105 110
Leu Phe Lys Leu Pro Gln Glu Pro Ser Arg Phe Glu Ser Met Leu Tyr
115 120 125
Ser Arg Gln Val Asp Gln Tyr Ala Arg Gln Ile Asp Ser Phe Val Ser
130 135 140
Ser Thr Thr Gly Lys Met Phe Ala Val Lys Gly Asn Leu Leu Pro Gly
145 150 155 160
Glu Thr Ala Lys

<210> 24750
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24750
Ser Asp Thr Gly Tyr Val Ala Ser His Ala Lys Leu Val Leu Gln Ala
1 5 10 15
Gly Ala Phe Ala Ala Val Thr Val Asp Phe Val Val Tyr Pro Phe Asp
20 25 30
Thr Leu Lys Thr Arg Val Gln Ser Pro Asp Tyr Asn Arg Leu Tyr Lys
35 40 45
Asp Ala Ala Thr Gly Ala Val Arg Arg Ser Ala Leu Tyr Arg Gly Leu
50 55 60
Tyr Gln Gly Val Trp Ser Val Val Leu Ser Thr Ile Pro Gly Cys Thr
65 70 75 80
Leu Ser Arg Ser Val Ser
85

<210> 24751
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (20),(50),(51)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24751
Val Ala Lys Val Arg Leu Glu Ile Pro Gly Asn Ser Val Val Asn Phe
1 5 10 15
Pro Val Arg Xaa His Asn Phe His Leu Ile Thr Ser Leu Ile His Gln
20 25 30
Leu Gln Thr Pro Asn Ile Arg Asp Arg Thr Gly Leu Pro Phe Ile Gly
35 40 45
Gly Xaa Xaa Gly Val Cys Pro Phe Arg Gln Val Val Tyr Phe Arg Pro
50 55 60
Leu Phe Arg
65

<210> 24752
<211> 210
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24752
Leu Gln Ser Val Ala Phe Gln Val Leu Gly Arg Gln Asp Leu Pro Ser
1 5 10 15
Ile Met Ala Ile Gly Ile Asn Gln Xaa Tyr Ser Asp Gln Tyr Ala Ile
20 25 30
Gln Pro Pro Ile Ala Ala Asp Ile Pro Met Asp Gly Tyr His Leu Thr
35 40 45
Arg Ala Gln Leu Ala Gln Met Pro Asp Pro Glu Tyr Ala Ala Ala Arg
50 55 60
Arg Gly Ala Ala Phe Thr Phe Asp Gly Glu Lys Phe Leu Arg Leu Val
65 70 75 80
Gln Ala Leu Arg Glu Pro Ile Thr Ser Glu Thr Arg Ile Leu Tyr Ala
85 90 95
Pro Ser Phe Asp His Ala Val Lys Asp Pro Val Asp Asp Asp Ile Pro
100 105 110
Ile Ala Pro Thr Ser Arg Ile Ile Phe Phe Glu Gly Asn Tyr Leu Ser
115 120 125
Leu Asn Lys Glu Pro Trp Ser Ser Ala Ala Lys Leu Met Asp Glu Leu
130 135 140
Trp Phe Val Glu Val Asp Phe Glu Thr Ala Arg Lys Arg Leu Val Arg
145 150 155 160
Arg His Val Gln Ala Gly Ile Ala Lys Asp Glu Ala Glu Ala Asp Lys
165 170 175
Arg Ala Met Glu Asn Asp Leu Val Asn Gly Gln Glu Ile Val Asp Asn

```
            180                 185                 190
Arg Met Asp Val Gln Glu Ile Ile Thr Ser Tyr Tyr Asp Thr Arg Trp
        195                 200                 205
Asp Arg
    210

<210> 24753
<211> 87
<212> PRT
<213> A.fumigatus

<400> 24753
Asp Thr Arg Arg Tyr Ser Leu Thr Lys Cys Leu Ile Ala Ser Thr Thr
1               5                   10                  15
Pro Asn Ser His Lys Val Ser Ser His Ser Glu Pro Pro Ser Arg Val
            20                  25                  30
Asp Asn Pro Val Gly Gln Pro Thr Gly Leu Pro Met Asp Thr Trp Lys
        35                  40                  45
Lys Ala Tyr Lys Cys Pro Val Asp Ser Leu Trp Thr Ser Gly Asp Ala
    50                  55                  60
Ala Ala Arg Gly Gln Tyr Ser Gly Thr Arg Ser Gln Glu Glu Arg Ala
65                  70                  75                  80
Asp Ser Glu Arg Asp Asn Ile
                85

<210> 24754
<211> 189
<212> PRT
<213> A.fumigatus

<400> 24754
Lys Val Val Ile Asn Gly Ala His Leu Asn Ala Thr Ser Lys Val Trp
1               5                   10                  15
Asp Asn Arg Ala Ala Val Leu Phe Lys Ile Leu Arg Glu Leu Gln Leu
            20                  25                  30
Tyr Tyr Arg Ile Leu Cys Leu Ala Met Ser Asp Thr Leu Pro Asn Pro
        35                  40                  45
Ser Gly Leu Ser Ala Lys Val Asn Lys Lys Arg Lys Arg Gln Ala Glu
    50                  55                  60
Glu Ala Pro Lys Glu Asp Lys Ala Ala Ser Ala Lys Ser Ala Asn Asn
65                  70                  75                  80
Asn Thr Leu Glu Ala Ala Glu Gly Pro Leu Lys Lys Lys Lys Lys Arg
                85                  90                  95
Asn Phe Lys Asn Lys Gln Lys Gln Gln Lys Lys Lys Asp Leu Glu Asp
            100                 105                 110
Asp Pro Lys Gln Gln Glu Arg Lys Gly Gly Ile Asp Glu Ser Ile Gly
        115                 120                 125
Lys Met Asp Gly Arg Leu Leu Ala Asp Tyr Phe Val Gln Lys Ala Lys
    130                 135                 140
Arg His Asn Lys Glu Leu Thr Ala Val Glu Leu Gly Asp Leu Ser Val
145                 150                 155                 160
Pro Gly Met Val Ile Ser Ala Trp Leu Arg Leu Glu Trp Val Phe Asn
                165                 170                 175
Arg Gly Gly Ser Val Arg Leu Thr Arg Leu Leu Gly Glu
            180                 185
```

<210> 24755
<211> 296
<212> PRT
<213> A.fumigatus

<400> 24755
Leu Leu Cys Leu Asn Arg Ala Thr Leu Leu Leu His His Ser Ala Ser
1 5 10 15
Gln Ala Leu Asn Gln Gln Arg Leu Glu Thr Tyr Leu Ser Ser Tyr Gly
20 25 30
Gln Pro Ser Leu Asp Ile Ala Glu His Leu Arg Asn Ser Pro Pro His
35 40 45
His Ser His Ser Arg Pro Asn Gly Gly Thr Asp Thr Pro Lys Asp Leu
50 55 60
Ala Ala Arg Val Lys Ile Ile Glu Leu Phe Thr Leu His Val Leu Pro
65 70 75 80
Arg Asn Glu Glu Trp Asp Tyr Ala Arg Glu Phe Ile Asn Met Ser Glu
85 90 95
Val Leu Asp Glu Glu Arg Lys Asp Val Phe Leu Gln Thr Leu Glu Gly
100 105 110
Ile Lys Glu Glu Lys Glu Gln Gly Glu Leu Arg Ala Ala Ala Leu Gln
115 120 125
Arg Glu Lys Glu Ala Glu Leu Glu Arg Gln Thr Arg Glu Glu Asp Arg
130 135 140
Arg Arg Ala Glu Glu Ala Ala Ala Ala Glu Arg Leu Glu Gln Lys Asn
145 150 155 160
Gln Arg Arg Asn Asp Ser Lys Val Asp Ser Gly Ile Glu Lys Ser Arg
165 170 175
Pro Asn Gly Ala Ser Lys Ala Lys Val Gly Lys Pro Ala Asp Lys Met
180 185 190
Ser Ser Ser Lys Ser Thr Pro Ser Gly Arg Thr Ala Phe Ser Pro Pro
195 200 205
Ala Ser Ser Lys Asn Val Lys Lys Thr Asp Lys Pro Ala Arg Ser Asn
210 215 220
Arg Ala Leu Ala Asn Val Leu Arg Asn Ile Met Gln Tyr Met Ser Lys
225 230 235 240
Thr Val Ala Gly Asn Pro Leu Ser Ile Ala Arg Thr Leu Leu Phe Met
245 250 255
Leu Gly Ile Ile Val Ala Leu Ser Arg Gln Asn Ile Arg Glu Lys Ile
260 265 270
Arg Arg Ile Thr Gly Ser Gly Trp Gln Lys Ile Lys Gly Thr Val Gly
275 280 285
Met Gly Val Lys Val Ser Tyr Ile
290 295

<210> 24756
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24756
Arg Ile Lys Val Trp Asn Leu Tyr Ile Thr Leu Leu Ser Ser Ile Leu
1 5 10 15
Glu Leu Gly Pro Glu Glu Gly Lys Lys Gln Phe Gly Gln Lys Lys Trp
20 25 30
Lys Ser Ile Ser Ser Gln Val Arg Asp Gly Gln Ile Trp Glu Thr Val

```
        35                  40                  45
Val Gln Thr Gly Tyr Arg Gly Leu Glu Gly Ser Val Asp Ala Glu Val
    50                  55                  60
Val Tyr Asn Leu Ser Val Lys Pro Leu Pro Pro Pro Ile Asn Ser Cys
65                  70                  75                  80
Thr Asp Thr Asp Phe Tyr Ala Leu Thr Glu Pro Leu Ser Cys Cys Thr
                85                  90                  95
Thr Leu Leu Pro Lys Arg
            100
```

<210> 24757
<211> 135
<212> PRT
<213> A.fumigatus

<400> 24757

```
Phe Thr Glu Thr Ser Ser Pro Ala Val Glu Ala His Val Ala Glu Pro
1               5                   10                  15
Pro Val Pro Gln Thr Glu Ser Arg Arg Val Thr Arg Lys Pro Ile Glu
            20                  25                  30
Gly Asp Cys Asn Ile Cys Leu Cys Leu Leu Arg Glu Gln Asp Ser Asp
        35                  40                  45
Glu Asn Gly Glu Gly Ser Glu Asp Arg Asp Asp Glu Asn Glu Asp Asp
    50                  55                  60
Ala Ala Gly Thr Gly Ser Gly Thr Ala Ser Asp Glu His Asp Ala Pro
65                  70                  75                  80
Glu Glu His Asp Asp Asp Asp Leu Val Tyr Cys Lys Asn Gln Cys Gly
                85                  90                  95
Thr Asn Tyr His Lys Ala Cys Ile Asp Val Trp His Ala Thr Gln Arg
            100                 105                 110
Thr Phe Glu Thr Pro Arg Gly Asp Pro Ile Gly Leu Ser Cys Pro Tyr
        115                 120                 125
Cys Arg Ala Ala Trp Ser Ser
    130                 135
```

<210> 24758
<211> 267
<212> PRT
<213> A.fumigatus

<400> 24758

```
Ser Gln Ile Ser Cys Lys Ala Met Arg Ser Cys Gln Ala Ser Glu Glu
1               5                   10                  15
Gln Gly Ile Asn Asn Asn Thr Arg Gly Ser Ala Ile Pro Val Pro Asn
            20                  25                  30
Asn Ala Thr Gly Leu Asn Val Lys Lys Val Arg Phe Ser Glu Pro Leu
        35                  40                  45
Pro Gln Arg Gln Gln Thr Phe Thr His His Gln Leu Ser Asp Asn Gln
    50                  55                  60
Ser Pro Phe Ile Cys Lys Ile Thr Asn Arg Thr Leu Arg Ser Thr Ser
65                  70                  75                  80
Asp Met Gln Pro Lys Lys Leu Arg Met Ser Arg Gly Phe Ala Asn Leu
                85                  90                  95
Lys Ala Leu Gln Thr Glu Glu Glu Val Ile Ser Gln Pro Ala Ser Asp
            100                 105                 110
Asp Asn Gln Asp Gln Ser Val Ser Lys Thr Ser Gln Gln Glu Gln Ser
```

```
        115                 120                 125
Ala Asn Val Pro Thr Thr Arg Asn Lys Ala Gly Thr Gln Arg Met Val
    130                 135                 140
Leu Pro Arg Asp Asp Asn His Thr Ser Arg Ile Pro Gly Asn Lys Gln
145                 150                 155                 160
Arg Thr Leu Thr Thr Thr Ile Pro Ala Gly Phe Gln Val Ser Glu Ala
                165                 170                 175
Gln Pro Arg Gln Tyr Trp Leu Gly Arg Phe Met Thr Leu Thr Asn Ala
            180                 185                 190
Phe His Tyr Glu Asp Ser Phe Asn Glu Pro Asp Ile Ala Thr Gly Phe
        195                 200                 205
Gly Met Leu Ser Ser Tyr Ser Arg Pro Leu Gly His Pro Asp Ala Asn
    210                 215                 220
Leu Ala Asn Tyr Arg Val Lys Arg Ala Phe Met Val Leu Glu Asn Val
225                 230                 235                 240
Cys Val Thr Glu Glu Ala Ser Ala Ser Leu Arg Glu Phe Arg Asp Glu
                245                 250                 255
Tyr Ile Ala Ile His Gly Asp Arg Trp Met Leu
            260                 265
```

<210> 24759
<211> 325
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (69),(217)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24759
Leu Ile Ser Val His Ser Phe Leu Leu Arg Asp Glu Ser Ser Ile Arg
1               5                   10                  15
Asn Ser Leu Arg Val Lys Val Arg Asn Ser Gln Ile His Glu Ala Trp
            20                  25                  30
Asp Ser His Arg Gln Val Ser Met Arg Ile Pro Thr Lys Ser Ser Ser
        35                  40                  45
Cys Gly Ser Gln Asp Ser Asn Glu Thr Thr Ala Ser Ser Glu Asn Phe
    50                  55                  60
Leu Glu Arg Ser Xaa Tyr Arg Ser Pro Phe Asp Ser Lys Ser Val Pro
65                  70                  75                  80
Phe Ser Ser Pro Ser Ser Ser Gln Thr Ser Ser Arg Ser Thr Ser Phe
                85                  90                  95
Thr Ser Ser Thr Ser Thr Ser Ser Ser Glu His Lys Tyr Ser Lys Ile
            100                 105                 110
Pro Val Pro Thr Ala His Pro Val Asn Gly Ile His Ser Arg Glu Thr
        115                 120                 125
Tyr Gln Lys Glu Gly Lys Arg Ser Leu Leu Ser Ser Leu Asn Lys Arg
    130                 135                 140
Tyr Ile Asn Leu Arg Arg Asn Ala Ser Asn Asp Glu Asn Lys Ser Ile
145                 150                 155                 160
Ser Asn Ile Gly Thr Gln Glu Thr Glu Asp Gly Asp Leu Asp Ile Pro
                165                 170                 175
Thr His Pro Arg Leu Val Lys Ile Ala Gln Asn Val Arg Tyr Val Arg
            180                 185                 190
Pro Thr Glu Pro Val Arg Val Tyr Arg Ile Ser Arg Pro Val Gln Ala
```

```
        195                 200                 205
Val Gln Val Asn Gln Pro Thr Leu Xaa Thr Gln Pro Ile Gln Pro Val
    210                 215                 220
Val Pro Ile Glu Leu Ala Lys Ser Ala Glu Asn Val Gln Pro Thr Ala
225                 230                 235                 240
Glu Ser Ala Ser Val Cys Glu Lys Cys Leu Glu His Gln Ser Lys Gln
                245                 250                 255
Thr Glu Met Ile Glu Gln Arg Thr Glu Val Val Leu Asp Ser Ser Ser
            260                 265                 270
Lys Lys Phe Arg Ser Ser Ile Thr Arg Thr Thr Ser Ser Ser Ser Ser
        275                 280                 285
Lys Ala Ala Leu Ile His Leu Thr Ser Pro Arg Ser Ser Ile Pro Val
    290                 295                 300
Pro Ala Lys Val Arg Ser Pro Ala Lys Pro Cys Ala Pro Ala Arg Arg
305                 310                 315                 320
Arg Arg Ser Lys Glu
                325
```

<210> 24760
<211> 61
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (27)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 24760
Arg Cys Arg Asp Thr Leu Asn Gln Met Ser Ile Cys Trp Glu Arg Arg
1               5                   10                  15
Leu Ile Gly Gly Val Ile Gly Val Lys Gly Xaa Leu Gln Thr Ala Val
            20                  25                  30
Leu Trp Thr Thr Pro Glu Phe Asp Ile Tyr Met Gly Phe Leu Thr Ile
        35                  40                  45
Ile Gly Ser Ser Leu Ser Asp Ala Leu Lys Phe Asn Ile
    50                  55                  60
```

<210> 24761
<211> 114
<212> PRT
<213> A.fumigatus

```
<400> 24761
Pro Asp Pro Val Gly Ala Asp Ile Val Gln His Gly Val Gly Pro Val
1               5                   10                  15
Asp Ser Ser Val Ser Leu Phe Ile Asn Asn Val Leu Arg Ala Leu Leu
            20                  25                  30
Thr Pro Arg Cys Ser Asn Ser Asp Gly His Leu Ala Phe His Gly Tyr
        35                  40                  45
Leu Ala Gly Val Ile Tyr Thr Ala Phe Pro Asp Pro Ala Ala Thr Ala
    50                  55                  60
Tyr Arg Ser Val Gly Ala Pro Met Gln Ile Phe Ile Pro Ile Arg Gly
65                  70                  75                  80
Tyr Phe Pro Lys Ser Leu Asn Val Met Leu Thr Ser Ile Val Tyr Ser
                85                  90                  95
```

```
Ile Ser Pro Arg Arg Ser Val Tyr Val Ile Ala Ile Phe Pro Val Ser
            100                 105                 110
Ala Arg


<210> 24762
<211> 191
<212> PRT
<213> A.fumigatus

<400> 24762
Ser Leu Thr Leu Asn Trp Gly Val Arg Val Ala Ser Gln Glu Glu Asp
1               5                   10                  15
Leu Phe Asn Glu Ile Thr His Val Glu Glu Glu Ile Ser Lys Phe Arg
            20                  25                  30
Ser Thr Thr Gly Asn Leu Gln Asp Tyr Ile Pro Phe Leu Arg Leu Asn
        35                  40                  45
Pro Phe Ser Thr Asn Ser Arg Lys Ala Lys Glu Met Arg Asp Arg Arg
    50                  55                  60
Asp Arg Tyr Leu Asn Ala Leu Asn Arg Asp Leu Asp Asp Arg Met Glu
65                  70                  75                  80
Lys Gly Ile His Lys Pro Cys Ile Gln Ala Asn Val Ile Leu Asp Lys
                85                  90                  95
Glu Ala Lys Leu Asn Lys Glu Glu Leu Ile Ser Ile Ser Leu Thr Met
            100                 105                 110
Leu Ser Gly Gly Leu Asp Thr Ile Thr Thr Leu Val Ala Trp Ser Phe
        115                 120                 125
Cys Leu Leu Ser Arg Arg Pro Asp Ile Gln Glu Lys Ala Ala Gln Ala
    130                 135                 140
Ile Gln Asp Met Phe Ser Gln Asp Glu Pro Leu Cys Asp Ala Gln Asp
145                 150                 155                 160
Asp Gln Lys Cys Ala Tyr Val Ala Ala Leu Val Arg Glu Cys Leu Arg
                165                 170                 175
Ser Glu Ile Pro Cys Leu Thr Asn Leu Arg Phe Ser Arg Pro Ala
            180                 185                 190

<210> 24763
<211> 106
<212> PRT
<213> A.fumigatus

<400> 24763
Phe Leu Phe Phe Val Phe Ser Ala Leu Ala Val Asp Ala Asp Glu Tyr
1               5                   10                  15
Ala Leu Asp Pro Glu Val Trp Asn Asp Pro Glu Glu Phe Arg Pro Glu
            20                  25                  30
Arg Trp Phe Glu Gln Pro Asp Ala Pro Met Leu Thr Tyr Gly Ile Gly
        35                  40                  45
Tyr Arg Met Cys Ala Gly Ser Leu Leu Ala Asn Arg Glu Leu Tyr Leu
    50                  55                  60
Val Phe Ile Arg Thr Leu Asn Ser Phe His Ile Glu Pro His Asp Asp
65                  70                  75                  80
Val Asp Trp His Pro Ile Asn Gly Asn Ser Asp Pro Thr Ser Leu Val
                85                  90                  95
Ala Ile Arg Leu His His Gly Ala Gly Arg
            100                 105
```

<210> 24764
<211> 302
<212> PRT
<213> A.fumigatus

<400> 24764
Leu Gly Trp Pro Thr Ile Gly Pro Ser Ser Pro Gly Lys Pro Leu Lys
1 5 10 15
Phe Phe Leu Leu Ala Ser Asp Ser Asn Arg Thr Ala Leu Arg Asn Arg
20 25 30
Leu Ala Gly Val Tyr Gly Ala Ser Met Ala Ile Pro Asp Leu Thr Arg
35 40 45
Val Gln Ala Leu Leu Met Leu Ala Leu His Glu Trp Gly Met Cys Arg
50 55 60
Gly Lys Ser Ala Trp Leu Tyr Val Gly Met Ala Ile Arg Leu Ser Gln
65 70 75 80
Ala Met Gly Leu Pro Phe Glu Leu Glu Asn Glu Val Ser Ser Arg Asp
85 90 95
Asp Pro Arg Ser Pro Ala Phe Lys Thr Glu Thr Glu Leu Phe Gly Val
100 105 110
Arg Arg Gly Pro Glu Pro Lys Glu Gln Thr Ser Asp Asp Val Ile Ala
115 120 125
Gln Glu Thr Lys Arg Arg Thr Phe Trp Ala Cys Phe Ile Leu Asp Arg
130 135 140
Cys Leu Ser Ser Gly Lys Tyr Arg Pro Arg Met Ile Arg Val Lys Glu
145 150 155 160
Leu Gly Ile Gln Leu Pro Ser Asp Asn Ala Phe Ala Phe Gly Glu Arg
165 170 175
Val Arg Thr Ala Arg Leu Asn Glu Pro Ser Ala Arg Arg Pro Pro Ser
180 185 190
Phe Gly Ser Gln Gly Met Gln Ile Pro Ser Ile Arg Gln Ser Ile Gly
195 200 205
Gly Phe Ser Asp Asp Lys Leu Pro Asn Asn Val Pro Pro Asp Asn Lys
210 215 220
Pro Trp Ser Pro Ile Ser Arg Arg Lys Asp Ser Ser Glu Asp Glu Ile
225 230 235 240
Asp Arg Trp Glu Ile Gly Ala Glu Glu Ser Val Leu Ser Arg Val Ile
245 250 255
Arg Ile Ile Arg Ile Trp Gly Ser Ile Ala Lys Trp Ser Cys Ala Gly
260 265 270
Gly Arg Arg Tyr Ala Cys Ile His His Pro Pro Val Ser Asn Pro Arg
275 280 285
Lys Leu Asn Ile Asp Arg Thr Glu Gln Val Pro Pro Cys Leu
290 295 300

<210> 24765
<211> 508
<212> PRT
<213> A.fumigatus

<400> 24765
Glu Leu Gln Ser Ser Leu Lys Asp Trp Asp Ser Glu Pro Ile Lys Met
1 5 10 15
Glu Thr Thr Pro His Ala Lys Asn Pro Ser Val Ile Asp Cys Tyr Asp
20 25 30

```
Gly Ile Thr Pro Thr Ser Val Pro Glu Gln Trp Asn Tyr Gln Ile Leu
        35                  40                  45
Tyr Tyr Asp Pro Thr Gln Pro Ser Ser Pro Pro Gly Ser Tyr Leu Ser
    50                  55                  60
Thr Lys Asp Ser Pro Asp Cys Ser Val Val Leu Val Asp Asn Ser Thr
65                  70                  75                  80
Ala Thr Asp Glu Trp Arg Gly Lys Phe Ser Phe Arg Met Ser Arg Gln
                85                  90                  95
Pro Pro Tyr Ala Phe Leu Arg Gly His Ala Val Gln Ala Ser Gln Glu
            100                 105                 110
Gly Ile Val Thr Glu Gln Ser Gly Ser Ser Gly Arg Ala Leu Ala Cys
        115                 120                 125
Tyr Ser Glu Asp Tyr Leu Leu Ser Leu Pro Leu Asn Ala Ser Phe Val
    130                 135                 140
Val Gly Val Tyr Pro Arg Glu Asp Gly Ala Ser Leu Pro Asp Gly Lys
145                 150                 155                 160
Val Glu Ile Val Phe Gln Ser Leu Ala Gln Gly Arg Tyr Phe Met Thr
                165                 170                 175
Lys Ser Val Ala Leu Ala Pro Phe Val Ala Leu Thr Arg Arg Val Trp
            180                 185                 190
Gln Leu Arg Arg Arg Asp Trp Leu Gly Asp Ala Ser Lys Thr Cys Ile
        195                 200                 205
Val Asp Asp Leu His Ser Pro Val Ser Gly Tyr Ala Met Ala Lys Met
    210                 215                 220
Asn Gly Thr Ile Gly Tyr Tyr Phe Leu Thr Pro Thr Gly Ile Met Pro
225                 230                 235                 240
Phe Ala Asn Gly Arg Leu Gly Pro Asp His Ser Thr Trp Gln Asp Glu
                245                 250                 255
Val Ala Met Ala Gly Asn Ala Asn Gly Leu Phe Ser Leu Thr Lys Ala
            260                 265                 270
Gly Asp Val Tyr Pro Tyr Ser Lys Ser Leu Ser Glu Arg Glu Pro Cys
        275                 280                 285
Asn Ile Ser Pro Asp His Lys Phe Ser Asp Val Thr Cys Thr Ile Thr
    290                 295                 300
Asp Ser Phe Val Tyr Ala Ile Lys Thr Asp Arg Thr Val Trp Arg Tyr
305                 310                 315                 320
Asp Pro Thr Gln Gln Pro Gly Thr Trp Glu Pro Val Cys Gln Thr Ser
                325                 330                 335
Asp Phe Lys Ala Ala Val Leu Val Ala Ser Asp Ala Ala Val Phe Ala
            340                 345                 350
Ile Ala His Pro Thr Cys Pro Pro Arg Tyr Gly Pro Ser Gly Ala Val
        355                 360                 365
Phe Ser Leu Leu Glu Gly Pro Ser Pro Val Leu Ile Gly Ser Asp Gln
    370                 375                 380
Leu His Ile Asn Gln Leu Lys Ile Ala Ser Asn Phe Leu Val Gly Leu
385                 390                 395                 400
Ala Ser Gly Asp Asn Lys Met Tyr Val Trp Asn Gly Asp Pro Gly Ser
                405                 410                 415
Trp Thr Asp Leu Ser Thr Ala Pro Leu Arg Pro Trp Gly Gly Val Arg
            420                 425                 430
Asp Val Val Asp Gly Gly Ser Leu Gly Ile Val Ala Leu Ser Gly Asp
        435                 440                 445
Gln Arg Glu Ile Val Gln Leu Asp Arg His Glu Arg Thr Trp Asn Ser
    450                 455                 460
Leu Gly Val Leu Thr Asp Glu Trp Arg Leu His Glu Gly Thr Leu Thr
465                 470                 475                 480
```

```
Leu Cys Ala Leu Val Asp Asp Gly Pro Ile Phe Gly Ile Trp Asn Gly
                485                 490                 495
Arg Ala Asn Phe Ile Tyr Pro Pro Gly Ile Val Pro
            500                 505
```

<210> 24766
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24766

```
Thr Asn Gly Ser Gly Leu Gln Thr Asn Gly Phe Tyr Asn Val Leu Gly
1               5                   10                  15
Pro Asp Tyr Ile Gly Glu Ala Phe Arg Ile Ala Arg Thr Val Cys Pro
            20                  25                  30
Gly Ala Lys Leu Phe Ile Asn Glu Asn Leu Val Gln Ser Arg Pro Gly
        35                  40                  45
Lys Arg Gln Glu Leu Tyr Asp Phe Val Phe Arg Phe Val Ala Lys Asp
    50                  55                  60
Ser Ser Ser Pro Arg Val Glu Asp Ser Val
65                  70
```

<210> 24767
<211> 229
<212> PRT
<213> A.fumigatus

<400> 24767

```
Arg Asn Ala Asp Met Ser His Ser Arg Thr Met Gly Ala Phe Cys Ala
1               5                   10                  15
Ala Thr Leu Ile Thr Ala Phe Leu Ala Ala Ala Glu Gly Thr Asn Ala
            20                  25                  30
Phe Thr Asn Thr Gly Thr Ser Pro Leu Arg Lys Glu Ala Ala Ser Lys
        35                  40                  45
Gly Ile Leu Ile Gly Ser Gly Ala Ile Asn Gln Thr Tyr Leu Asp Asn
    50                  55                  60
Pro Gln Phe Ala Thr Ile Leu Ala Glu Gln Phe Gln Ser Leu Ser Pro
65                  70                  75                  80
Glu Asn Glu Met Lys Trp Pro Phe Ile His Pro Thr Pro Gly His Tyr
                85                  90                  95
Asn Trp Asp Thr Ile Asp Arg Leu Val Gly Phe Ala Glu Asn Asn Asp
            100                 105                 110
Met Val Val Lys Gly His Gly Leu Ile Ser Ser Cys Cys Asn Pro Asp
        115                 120                 125
Tyr Leu Leu Asn Ile Thr Asn Pro Lys Leu Phe Arg Ala Ala Met Val
    130                 135                 140
Asp His Phe Gly Arg Ser Cys Thr Asp Thr Leu Ala Arg Leu Ile Asp
145                 150                 155                 160
Gly Thr Leu Ser Pro Lys His Ser Arg Gln Met Ala Ala Ala Tyr Arg
                165                 170                 175
Pro Met Ala Phe Thr Thr Cys Leu Ala Leu Ile Ile Ser Glu Arg Leu
            180                 185                 190
Ser Val Leu Pro Glu Gln Cys Ala Arg Val Pro Asn Cys Leu Ser Thr
        195                 200                 205
Arg Ile Ser Ser Asn His Val Arg Ala Asn Val Lys Ser Ser Met Ile
    210                 215                 220
```

Ser Ser Leu Gly Leu
225

<210> 24768
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24768
Pro Phe Gln Pro Arg Gly Glu Asp Tyr Ser Met Ser Gly Asp Asp Leu
1 5 10 15
Ser His Gln Ala Trp Thr Glu Arg Gln His Ile Ser Glu Arg Leu Ser
20 25 30
Thr Tyr Gly Asp Gln Phe Glu Ala Leu Glu Phe Thr Thr Met Thr Glu
35 40 45
Thr Leu Glu Trp Leu Pro Asn Phe Ser Gly Pro Asn Thr Val Arg Asn
50 55 60
Ile Asn Asp Thr
65

<210> 24769
<211> 164
<212> PRT
<213> A.fumigatus

<400> 24769
Asn Ile Met Pro Asn Phe Gln Ala His Ser Leu Thr Arg Ser Thr Tyr
1 5 10 15
Ser Trp Leu Pro Leu Leu Phe Ile Pro Thr Asn Ala Ser Pro Leu Phe
20 25 30
Ile Ile Ser Phe Val Thr Leu Thr Tyr Ile Leu His Arg Pro Cys Ile
35 40 45
Tyr Cys Ser Ala Leu Leu Leu Ile Leu Phe Ile Ser Ser Cys His Trp
50 55 60
Ala Asp Arg Cys Phe Phe Asp Phe Arg Gly Asp Trp Phe Ser Pro Arg
65 70 75 80
Tyr Ala Thr Ser Ser Pro Tyr Asp Ala Val Ser Ala Asn Thr Ser Leu
85 90 95
Ala Ser Tyr Val Ala Glu Thr Val Asn Thr Thr Thr Lys Ala Leu Ala
100 105 110
Gly Ala Ala Val Glu Glu Ala Gln Arg Arg Leu Ala Leu Asn Gly Ser
115 120 125
Ser Glu Leu Gly Gln Gln Glu Trp Thr Gly Val Gly Leu Glu Trp Leu
130 135 140
Arg Ser Leu Leu Gly Arg Arg Asp Trp Thr Leu Pro Cys Val Asp Val
145 150 155 160
Lys Val Arg Leu

<210> 24770
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24770
Ala Ala Ala Pro Ser Glu Ile Ser Cys Gln Thr Ser Lys Pro Thr His

```
1               5                   10                  15
Ser His Asp Gln His Ile Ala Gly Tyr Arg Ser Ser Ser Ser Gln Pro
            20                  25                  30
Thr Pro Pro Pro Ser Ser Ser Phe Pro Leu Ser His Ser His Thr Ser
        35                  40                  45
Ser Thr Asp His Ala Ser Thr Ala Pro Arg Cys Ser Ser Ser Ser Ser
    50                  55                  60
Ser Pro Pro Ala Thr Gly Leu Thr Ala Ala Ser Ser Thr Ser Ala Ala
65                  70                  75                  80
Thr Gly Phe Arg Arg Ala Thr Gln Pro Arg Ala Pro Thr Met Leu Ser
                85                  90                  95
Arg Pro Ile Pro Pro Trp Pro Val Met Trp Gln Lys Pro Ser Ile Arg
            100                 105                 110
Pro Pro Arg Arg Trp Arg Ala Arg Arg Leu Arg Arg Arg Ser Gly Asp
        115                 120                 125
Leu Arg Ser Thr Asp Gln Val Asn Trp Asp Ser Arg Ser Gly Pro Val
    130                 135                 140
Leu Asp Ser Asn Gly Cys Gly Val Cys Trp Asp Asp Gly Thr Gly Leu
145                 150                 155                 160
Phe Pro Val
```

<210> 24771
<211> 70
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (38)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24771

```
Ile Leu Tyr Ser Asp His Lys Asn Glu Ile Thr Ser Arg Asn Asp Asp
1               5                   10                  15
Asn Leu His Ala Ile Ala Ala Asp Asn Leu Val Gln Val Lys Ile Met
            20                  25                  30
Gln Ala Gln Ser Met Xaa Tyr Glu Pro Ser Gly Ala Cys Lys Arg Met
        35                  40                  45
Ser Ala Ile Ser Ala Ser Tyr Ser Tyr Ile Asp Leu Trp Ile Trp Trp
    50                  55                  60
Glu Lys Lys Asp Arg Glu
65                  70
```

<210> 24772
<211> 77
<212> PRT
<213> A.fumigatus

<400> 24772

```
Val Pro Val Tyr Glu Phe Lys Val Asp Gly Glu Ser Val Met Arg Arg
1               5                   10                  15
Arg Gly Asp Asp Trp Ile Asn Ala Thr His Ile Leu Lys Val Ala Gly
            20                  25                  30
Phe Asp Lys Pro Ala Arg Thr Arg Ile Leu Glu Arg Glu Val Gln Lys
        35                  40                  45
```

```
Gly Thr His Glu Lys Val Gln Gly Gly Tyr Gly Lys Tyr Gln Gly Arg
    50                  55                  60
Ile Phe Tyr Thr Val Lys Cys Arg Arg Leu Pro Phe Gly
65                  70                  75
```

<210> 24773
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24773

```
Asp Ile Leu His Gly Gln Val Ser Ser Phe Ala Ile Arg Leu Thr Leu
1               5                   10                  15
Ser Ile Gly Thr Trp Ile Pro Leu His Glu Gly Arg Leu Leu Ala Glu
            20                  25                  30
Arg Asn Asn Ile Ile Asp Lys Leu Arg Pro Ile Phe Asp Tyr Val Ala
        35                  40                  45
Gly Asp His Thr Pro Pro Pro Ala Pro Lys His Thr Ser Ala Ala Ser
    50                  55                  60
Ser Arg
65
```

<210> 24774
<211> 154
<212> PRT
<213> A.fumigatus

<400> 24774

```
Lys Pro Thr His Asp Ala Asp Leu Ile Trp Ile Arg Cys Arg Pro Thr
1               5                   10                  15
Ile Ala Thr Gln Ser Trp Ser Ser Arg Leu Gln Ser Ser Arg Pro Ile
            20                  25                  30
Val Cys Gly Tyr Ala Cys Lys Lys Ile Glu Asn Tyr Leu Leu Ala Ala
        35                  40                  45
Asp Thr Val His Glu Asp Asn Lys Leu Lys Gly Val Glu Lys Ala Leu
    50                  55                  60
Glu Glu Asp Val Pro Glu Lys Arg Asp Phe Tyr Thr Asn Ile Val Val
65                  70                  75                  80
Leu Pro Lys Pro Asp Gly Met His Ala Leu Lys Val Ala Glu Glu Asp
                85                  90                  95
Leu Glu Ile Ala Ser Val Glu Phe Pro Trp Gln Pro Ala Arg Glu Ile
            100                 105                 110
Asp Pro Tyr Ile Gly Glu Asn Ser Val Leu Arg Thr Leu Met Ser Ser
        115                 120                 125
Ser Gly Glu Lys Asp Trp Leu Lys Phe Arg Gln Ala Gly Ser Thr Arg
    130                 135                 140
Ala Trp Arg Val Leu Arg Arg Glu Met Ser
145                 150
```

<210> 24775
<211> 323
<212> PRT
<213> A.fumigatus

<400> 24775

```
Gly Gly Thr His Phe Pro Ser Pro Arg Val Arg His Gly Gln Ile Cys
```

```
1               5                   10                  15
Phe Glu Glu Arg Thr Pro Ala Trp Asn Ile Ser Leu Tyr Gly Met Pro
            20                  25                  30
Thr Gly Asp Glu Phe Ile His Tyr Leu Glu Lys Trp Ile Glu Ala Pro
        35                  40                  45
Thr Asp Ala Ser Cys Pro Leu Gly Gly Lys Ala Pro Tyr Thr Asn Ala
    50                  55                  60
Leu Val Ile Asp Ser Arg Arg Leu Met Thr Asn Ala Ser His Phe Arg
65                  70                  75                  80
Thr Ser His Thr Pro Leu Arg Ser Gln Asp Asp Tyr Ile Lys Ala Tyr
                85                  90                  95
Ile Ser Ala Arg Arg Ile Ala Asp Gly Ile Ser Lys Glu His Gly Ile
            100                 105                 110
Asp Val Phe Pro Tyr Ser Lys Pro Tyr Ile Tyr Phe Asp Gln Tyr Val
        115                 120                 125
Ser Ile Val Gln Leu Thr Gly Thr Leu Leu Gly Cys Ala Val Ala Ile
    130                 135                 140
Ile Phe Val Ile Thr Ser Ile Ile Leu Gly Ser Val Ala Thr Gly Ala
145                 150                 155                 160
Val Val Thr Ala Thr Val Val Met Ile Val Val Asp Ile Ile Gly Ser
                165                 170                 175
Met Ala Ile Ala Gly Val Ser Leu Asn Ala Val Ser Leu Val Asn Leu
            180                 185                 190
Val Ile Cys Val Gly Ile Gly Val Glu Phe Cys Ala His Ile Ala Arg
        195                 200                 205
Ala Phe Met Phe Pro Ser Arg Thr Ile Met Gly Lys Thr Pro Thr Lys
    210                 215                 220
Phe Arg Gly Lys Asp Ala Arg Ala Trp Thr Ala Leu Val Asn Val Gly
225                 230                 235                 240
Gly Ser Val Phe Ser Gly Ile Thr Ile Thr Lys Leu Leu Gly Ile Cys
                245                 250                 255
Val Leu Ala Phe Thr Arg Ser Lys Ile Phe Glu Ile Tyr Tyr Phe Arg
            260                 265                 270
Val Trp Leu Ala Leu Val Ile Phe Ala Ala Thr His Ala Leu Ile Phe
        275                 280                 285
Leu Pro Val Leu Leu Ser Tyr Phe Gly Gly Glu Gly Arg Phe Ile Leu
    290                 295                 300
Val Val Ser Phe Glu Ser Phe Ser Phe Ser Pro Thr Ser Gly Leu Ser
305                 310                 315                 320
Asn Thr Ile
```

<210> 24776
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24776

```
Val Met Pro Ile Leu Asp Pro Thr Val Val Trp Lys Lys Pro Leu Pro
1               5                   10                  15
Pro Glu Val Ile Ala Pro Cys Leu Leu Met Lys Thr Thr Thr Leu Lys
            20                  25                  30
Asn Ser Ser Asp Ala Leu His Asp Pro Met Ala Asn Val Phe Ala Cys
        35                  40                  45
Phe Thr Tyr Glu Arg Cys Trp Leu Ile Tyr Gly Phe Val Leu Cys Thr
    50                  55                  60
```

Phe Cys Ser Phe Ile
65

<210> 24777
<211> 138
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (66),(83)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24777
Ser Pro Lys Ile Val Phe Glu Gly Thr Thr Thr Phe Gly Tyr Lys Glu
1 5 10 15
Trp Ser Gly Pro Leu Ile Arg Phe Gly Gly Lys Asp Ile Thr Ile Lys
20 25 30
Gln Asn Ser Gly Ala Val Ile Asp Gly Glu Ser Ser Arg Trp Trp Asp
35 40 45
Gly Glu Gly Thr Asn Gly Gly Lys Thr Lys Pro Lys Phe Met Tyr Ala
50 55 60
His Xaa Leu Glu Asp Ser Thr Ile Thr Gly Leu Ser Ile Lys Asn Thr
65 70 75 80
Pro Val Xaa Ala Ile Asn Val Gln Ala Thr Asn Leu Tyr Leu Ile Asp
85 90 95
Ile Thr Ser Ile Thr Ser Thr Gly Met Thr Thr Ala Gly Thr Thr Leu
100 105 110
Thr Gly Leu Thr Ile Thr Lys Val Pro Gly Trp Ile Phe Gly Gly Leu
115 120 125
Thr Ser Arg Thr Arg Arg Leu His Trp His
130 135

<210> 24778
<211> 117
<212> PRT
<213> A.fumigatus

<400> 24778
Gln Ala Val Ile Ser Asn Leu Ser Phe Leu Ser Phe Leu Pro Val Glu
1 5 10 15
Arg Phe Ile Leu Thr Asp Gln Asn Cys Ser Val Asp Arg Asn Ser Arg
20 25 30
Ser Phe Ile Pro Ser Phe Ile Met Arg Ser Val Lys Leu Phe Gly Leu
35 40 45
Ala Ala Leu Gly Ser Leu Gly Ala Ala Ala Pro Ala Pro Ser Arg Val
50 55 60
Ser Asp Leu Thr Lys Arg Ser Ser Thr Cys Thr Phe Thr Ala Ala Ser
65 70 75 80
Gln Ala Thr Glu Ser Ala Ser Gly Cys Ser Glu Ile Val Leu Asp Asn
85 90 95
Ile Glu Val Pro Ala Gly Glu Thr Leu Asp Leu Ser Asp Val Asp Asp
100 105 110
Gly Thr Thr Val Arg
115

<210> 24779
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24779
Leu Arg Tyr Phe Gln Ala Gly Val Glu Gln Ser Glu Met Arg Pro Thr
1 5 10 15
Tyr Leu Ser Pro Gln Ala His Val Lys Leu Ser Ser Pro Gly Ala Phe
20 25 30
Asp Gly Leu Arg Ile His Thr Asp Glu Ile Asn Glu Val Ile Lys Arg
35 40 45
Ile Thr Pro Arg Ser Leu Thr Ile Ala Val Val Arg Ser Pro Leu Tyr
50 55 60
Asp Leu Pro Lys
65

<210> 24780
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24780
Pro Ile Cys Gln Ile Met Asp Ser Met Asp Trp Phe Asp Pro Glu Gly
1 5 10 15
Thr Glu Ala Ser Ile Gln Ala Gln Lys Leu Asn His Ala Leu Lys Met
20 25 30
Asp Gly Arg Ile Leu Leu Arg Ser Ala Ser Ile Glu Pro Trp Tyr Ile
35 40 45
Lys Gln Phe Glu Glu Asn Gly Phe Thr Ala Arg Arg Val Gly Ala Arg
50 55 60
Phe Pro Gly Ser Cys Ile Asp Arg
65 70

<210> 24781
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24781
Leu Ser Ser Ala Ala Ala Pro Gly Ala Gly Lys Ser Thr Phe Tyr Trp
1 5 10 15
Asn His Leu Gln Pro Leu Gly Tyr Glu Cys Val Asn Gln Asp Asn Leu
20 25 30
Lys Thr Val Arg Leu Val Tyr Thr Leu Gly Glu His Glu Asn Gly Thr
35 40 45
Leu Lys Leu Asp Thr Asn Arg Asp Lys Asn Ala Ser Lys Ser Pro Arg
50 55 60
Ser Phe Ser Pro Pro Val Pro Pro Ser Ser Ser Val Gly Cys Ile Arg
65 70 75 80
Phe Gln Gly Ser Ala Ser Thr Gln Thr His Ala Ala Asp Ala Met Thr
85 90 95
Asp Asn Thr Asn Ala Asp Pro Asn Thr Arg Ala Glu Trp Val Arg Val
100 105 110
Ala Lys Glu Ser Asn Val Pro Ile Arg Cys Val Tyr Phe Thr Ser Ser
115 120 125

```
Pro Glu Leu Cys Lys His Asn Asn Ala Val Arg Ala Ala Asn Arg Ser
    130                 135                 140
Leu Val Pro Leu Phe Ser Ser Gln Met Leu Glu Thr Lys Leu Thr Val
145                 150                 155                 160
Tyr Ala Leu
```

<210> 24782
<211> 93
<212> PRT
<213> A.fumigatus

<400> 24782

```
His Glu Arg Ile Ala Arg Gln Lys Val Phe Gly Val Arg Ile Gly Leu
1               5                   10                  15
Ser Thr Met Arg Ser Lys Thr Val Cys Asn Ile Val Gln Pro Phe Arg
            20                  25                  30
Ser Leu Tyr His Ala Lys Trp Met Ser Asn Met Ser Leu Asp Val Val
        35                  40                  45
Ala Ser Glu Lys Thr Cys Ile Arg Leu Tyr Gln Lys Glu Lys Glu Lys
    50                  55                  60
Arg Glu Glu Lys Lys Lys Arg Ser Met Asn Asp Thr Val Cys Arg Val
65                  70                  75                  80
Tyr Val Asp Met Tyr Pro Ile Tyr Pro Ala Phe Gln Glu
                85                  90
```

<210> 24783
<211> 162
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (153)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24783

```
Thr Gly Arg Leu Cys Thr Ile Leu Asn Val Gln Leu Ser Gly Pro Ala
1               5                   10                  15
Lys Ser Arg Tyr His Trp Leu Asn Ile Phe Ile Gly Pro Glu Asp Glu
            20                  25                  30
Leu Leu Leu Lys Lys Asp Glu Leu Ser Ile Leu Ile Arg Arg Val Leu
        35                  40                  45
Arg Glu Tyr Pro Met Leu Ser Tyr Phe Gln Gly Tyr His Asp Ile Ala
    50                  55                  60
Gln Val Leu Leu Leu Val Leu Gly Glu Lys Glu Ala Ala Pro Ala Val
65                  70                  75                  80
Thr Asn Ile Ser Leu Phe Arg Ile Arg Asp Tyr Met Leu Pro Ser Leu
                85                  90                  95
Ser Pro Ala Leu Lys His Leu Gln Leu Ile Pro Ala Ile Ile Glu Lys
            100                 105                 110
Ala Asp Pro Ala Leu Arg Glu His Leu Gly Gly Ile Lys Pro Phe Phe
        115                 120                 125
Ala Leu Ala Ala Thr Leu Thr Leu Tyr Ala His Asp Ile Gln Glu Tyr
    130                 135                 140
Ser Asp Ile Ala Arg Leu Phe Asp Xaa Ile Arg His Gly Pro Lys Tyr
```

145 150 155 160
Arg Val

<210> 24784
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24784
Ile Trp Met Asp Gln Leu Asn Leu Thr His Phe Glu Gly Ala Ala His
1 5 10 15
Ser Ala Tyr Leu Ala Gln Ser Arg Val Pro Asn Ile Ile Ala Cys Asn
20 25 30
Val Ile Leu Leu Ser Ile Val Ser Ile Ala Val Ala Met Arg Leu Tyr
35 40 45
Val Arg Tyr Arg Tyr Phe Met Ile Arg Ser Asp Asp Ser Lys Ser Tyr
50 55 60
His Ser Gln Ser Leu Gly Gln Asp
65 70

<210> 24785
<211> 92
<212> PRT
<213> A.fumigatus

<400> 24785
Ser Trp Ser Cys Gly Pro Ala Arg Leu Lys Thr Gly Gln Leu Val Glu
1 5 10 15
Ala Thr Lys His Leu Ala Gly Trp Leu Ile Arg Ser Ala Ile Gly Thr
20 25 30
Gly Ser Met Ala Asp Val Pro Gln Asn Leu Leu Gln Gln Ile Lys Asp
35 40 45
Phe Glu Glu Met Phe Thr Val Asp Lys Ala Lys Leu Lys Gln Val Val
50 55 60
Asp His Phe Val Lys Glu Leu Asp Lys Gly Lys Pro Leu Ser Leu Thr
65 70 75 80
Tyr Phe Trp Ile Ala Pro Val Ala Ser Arg Glu Ile
85 90

<210> 24786
<211> 175
<212> PRT
<213> A.fumigatus

<400> 24786
Pro His Pro Ser Gly Glu Ala Cys Pro Leu Thr Thr Arg Thr Thr Gln
1 5 10 15
Gln Pro Met Asn Val Thr Trp Val Met Gly Phe Pro Asp Gly Asp Glu
20 25 30
Gln Gly Thr Phe Leu Ala Leu Asp Met Gly Gly Thr Asn Leu Arg Val
35 40 45
Cys Glu Ile Thr Leu Thr Glu Glu Lys Gly Gly Phe Asp Ile Cys Gln
50 55 60
Ser Lys Tyr Arg Met Pro Glu Glu Leu Lys Thr Gly Thr Ala Glu Glu
65 70 75 80

```
Leu Trp Glu Tyr Ile Ala Asp Cys Ile Gln Gln Phe Ile Glu Phe His
                85                  90                  95
His Gly Glu Glu Gly Leu Thr Ser Leu Pro Leu Gly Phe Thr Phe Ser
            100                 105                 110
Tyr Pro Ala Thr Gln Glu Tyr Ile Asp His Gly Ile Leu Gln Arg Trp
        115                 120                 125
Thr Lys Gly Phe Asp Ile Asp Gly Val Glu Gly Gln Asp Val Val Pro
    130                 135                 140
Pro Leu Glu Glu Thr Leu Lys Arg Lys Val Tyr Pro Leu Leu Val Val
145                 150                 155                 160
Val Val Ala Asn Leu Arg Thr Ser Asn Asn Val Leu Thr Ala Gly
                165                 170                 175
```

<210> 24787
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24787

```
Pro Met Gly Leu Ser Val Arg Ser Ser Ile Asn Ile Pro Tyr Ala His
1               5                   10                  15
Tyr Ala Met Ile Tyr Leu Asp Asn Met Gly Arg Leu Lys Val Thr Glu
            20                  25                  30
Ser Pro Ser Ile Gln Glu Gln Asn Gly Thr Val Phe Thr Pro Glu Val
        35                  40                  45
Arg Glu Arg Phe Leu Glu Ile Leu Gly Ala Lys Ile Gly Tyr Gln Arg
    50                  55                  60
Pro Met Val Arg Ser Met
65                  70
```

<210> 24788
<211> 95
<212> PRT
<213> A.fumigatus

<400> 24788

```
Leu Thr Asp Ser Phe Phe His Gly Gly Arg Val Glu Ala Arg Ala Asp
1               5                   10                  15
Ile Leu Arg Ile His Ser Arg Ser Met Asn Leu Thr Arg Gly Ile Asn
            20                  25                  30
Leu Thr Lys Ile Ala Glu Lys Met Asn Gly Cys Ser Gly Ala Glu Leu
        35                  40                  45
Lys Gly Val Cys Thr Glu Ala Gly Met Tyr Ala Leu Arg Glu Arg Arg
    50                  55                  60
Val His Val Thr Gln Glu Asp Phe Asp Leu Ala Thr Ala Lys Ile Leu
65                  70                  75                  80
Asn Lys His Asp Asp Lys Glu Val Ala Val Ser Lys Leu Phe Lys
                85                  90                  95
```

<210> 24789
<211> 79
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (4),(6),(10),(11),(13),(16),(17),(18)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24789
Leu Arg Arg Xaa Pro Xaa Pro Ala Pro Xaa Xaa Phe Xaa Gly Ile Xaa
1 5 10 15
Xaa Xaa Tyr Thr His Cys Ala Asp Pro Ser Ser Pro Val Val Lys Ile
20 25 30
Ala Leu Leu Ser Asp Ser Tyr Lys Leu Glu Lys Met Leu Pro Ser Ser
35 40 45
Val Asp Pro Leu Val Ser Leu Met Met Val Glu Lys Val Pro Asp Ser
50 55 60
Thr Tyr Asp Met Ile Gly Gly Leu Asp Gln Gln Ile Lys Glu Ile
65 70 75

<210> 24790
<211> 159
<212> PRT
<213> A.fumigatus

<400> 24790
Glu Val Ile Glu Leu Gly Leu Lys His Pro Glu Leu Phe Glu Ser Leu
1 5 10 15
Gly Ile Ala Gln Pro Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Thr
20 25 30
Gly Lys Thr Leu Leu Ala Arg Ala Val Ala His His Thr Asp Cys Arg
35 40 45
Phe Ile Arg Val Ser Gly Ser Glu Leu Val Gln Lys Tyr Ile Gly Glu
50 55 60
Gly Ser Arg Met Val Arg Glu Leu Phe Val Met Ala Arg Glu His Ala
65 70 75 80
Pro Ser Ile Ile Phe Met Asp Glu Ile Asp Ser Ile Gly Ser Ser Arg
85 90 95
Ile Asp Ser Ala Gly Ser Gly Asp Ser Glu Val Gln Arg Thr Met Leu
100 105 110
Glu Leu Leu Asn Gln Leu Asp Glu Phe Glu Pro Thr Lys Asn Ile Lys
115 120 125
Ile Ile Met Gly Thr Asn Arg Leu Asp Ile Leu Asp Pro Gly Leu Leu
130 135 140
Arg Pro Gly Arg Ile Asp Arg Lys Ile Glu Phe Pro Pro Pro Ser
145 150 155

<210> 24791
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24791
Tyr Tyr Gln Ala Ala Leu Arg Cys Phe Pro Gly Lys Phe Gly Pro Met
1 5 10 15
Asn Arg Tyr Leu Ala Arg Val Val Phe Ala Asp Thr Leu Leu Lys Glu
20 25 30
Thr Ala Gln Leu Glu Ala Gln Ala Tyr Glu Leu Glu Gln Arg Thr Ala
35 40 45
Leu Ala Ala Glu Ala Lys Ser Val Leu Asp Ser Trp Val Arg Tyr Glu
50 55 60

```
Ser Gln Val Lys Gln Arg Gln Gln Arg Glu Leu Ala Glu Ser Val Ile
65                  70                  75                  80
Ala Lys Ile Gln Lys Glu Leu Glu Asn Pro Lys Val Leu Gln Gln Ile
                85                  90                  95
Leu Gln Gln Ser Val Ala Asp Val Glu Arg Lys Phe Gln Ser Pro
            100                 105                 110
```

<210> 24792
<211> 157
<212> PRT
<213> A.fumigatus

<400> 24792

```
Pro Gln Val Gly Val Thr Arg Leu Arg Pro Thr Leu Pro Val Arg Ser
1               5                   10                  15
Val Gly Ala Asn Leu Thr Ala Ser Arg Ser Ala Ser Asn Val Pro Ala
            20                  25                  30
Glu Asp Pro Lys Lys Lys Ala Gln Ser Ile Ile Asp Ser Leu Pro Gly
        35                  40                  45
Ser Ser Leu Val Ser Lys Thr Ala Ile Leu Ser Ala Ala Ala Gly Leu
    50                  55                  60
Ser Val Ala Ala Ile Ser Asn Glu Leu Tyr Val Met Asn Glu Glu Thr
65                  70                  75                  80
Val Ala Ala Phe Cys Leu Leu Ser Val Phe Thr Ala Val Ala Lys Tyr
                85                  90                  95
Gly Gly Pro Val Tyr Ser Glu Trp Ala Gln Gly Gln Val Gln Lys His
            100                 105                 110
Lys Asp Ile Leu Asn Ala Ala Arg Ala Asp His Thr Asn Ala Val Lys
        115                 120                 125
Ala Arg Met Asp Asn Val Lys Glu Leu Ser Asn Val Val Asp Ile Thr
    130                 135                 140
Lys Gln Leu Phe Ala Val Ser Arg Val Asn Ser Val Leu
145                 150                 155
```

<210> 24793
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24793

```
Ala Ile Tyr Pro Asn Arg Lys Asn Ala Gln Leu Leu Gln Leu Ile Pro
1               5                   10                  15
Lys Leu Gln Asn Ala Gln Pro Leu Thr Thr Ser Ser Lys Ser Asn Asn
            20                  25                  30
Phe Asp Asn Pro Lys Cys Ile Tyr Thr Ser Ala Cys Ala Thr Phe His
        35                  40                  45
Ala Glu Gln Glu Ser Val Ala Ser Thr Ser Thr Thr Pro
    50                  55                  60
```

<210> 24794
<211> 161
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (1),(109)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24794
Xaa Ser Ala Phe Pro Ser Ser Pro Ala Val Lys Asn Lys Leu Glu Gln
1 5 10 15
His Tyr Ser Leu Thr Tyr Thr Ile Val Ser Leu Val Phe Leu Ser Pro
20 25 30
Leu Gly Gly Tyr Ala Leu Ala Ala Leu Thr Asn Asn His Ile His Leu
35 40 45
Arg Phe Gly Arg Arg Gly Val Ala Ile Ile Ala Pro Ser Cys His Val
50 55 60
Ile Ser Tyr Ile Ile Asn Cys Leu His Pro Pro Tyr Pro Val Leu Val
65 70 75 80
Val Ser Phe Ile Phe Ala Gly Phe Gly Asn Gly Leu Ala Asp Ser Gly
85 90 95
Trp Asn Ala Trp Ile Gly Asn Met Ala Asp Ala Asn Xaa Val Leu Gly
100 105 110
Leu Leu His Gly Phe Tyr Gly Ala Gly Ala Val Leu Ala Pro Leu Val
115 120 125
Ala Thr Ala Leu Val Thr Lys Ala Glu Val Gly Trp Trp Tyr Phe Tyr
130 135 140
Tyr Ile Met Val Cys Pro Phe His Phe Pro Ser Val Gly Val Ser Cys
145 150 155 160
Cys

<210> 24795
<211> 252
<212> PRT
<213> A.fumigatus

<400> 24795
Ile Gly Cys Ala Val Ile Glu Leu Thr Thr Ser Val Tyr Cys Phe Trp
1 5 10 15
Asp Asp Thr Gly Ala Val Phe Arg Arg Asp Thr Gln His Ser Thr Gly
20 25 30
Gly Thr Gly Ser Gly Gly Gly Ser Leu Arg Lys Ala Leu Phe Thr Lys
35 40 45
His Ala Gly Arg Ile Thr Trp Leu Cys Ala Val Phe Leu Leu Leu Tyr
50 55 60
Val Gly Val Glu Val Ala Leu Gly Gly Trp Ile Val Thr Phe Met Met
65 70 75 80
Arg Val Arg His Gly Glu Pro Phe Ala Ser Gly Met Ala Ala Thr Gly
85 90 95
Phe Trp Leu Gly Ile Thr Val Gly Arg Val Val Leu Gly Phe Val Thr
100 105 110
Pro Arg Leu Gly Glu Lys Leu Ala Ile Ser Val Ala Ser Ser Leu Phe
115 120 125
Ile Phe Leu Gly Ile Ser Cys Met Leu Thr Val Ala Asp Leu Ser His
130 135 140
Leu Leu His Arg Leu Gly Pro His Pro Leu Ala Arg Ser Glu Leu Val
145 150 155 160
Arg Phe Asp Arg Gly Arg Leu Ala Ala Gly Val Leu Pro Arg Ala Ala
165 170 175
Val Pro Cys Arg Arg Gly Arg Gly Asp Gln Val Ala Ala Ala Trp Val

```
            180                 185                 190
Ala Arg His Arg Asp Trp Leu Cys Gly Gly Leu Trp Ser Gly Arg Trp
        195                 200                 205
Leu Gly Ala Ala Val Cys Cys Trp Ser His Cys Ala Gly Lys Gly Cys
    210                 215                 220
Gln Gly Val Ala Ala Val Cys His Trp Leu Ala Trp Gly Asp Tyr Gly
225                 230                 235                 240
Val Val Asp Val Leu Ala Thr Asp Ser Cys Ser Ala
                245                 250
```

<210> 24796
<211> 117
<212> PRT
<213> A.fumigatus

<400> 24796

```
Arg Leu Gln Ile Tyr Leu Ile Ser Ser Ile Ala Leu Gly Leu Ile Leu
1               5                   10                  15
Trp Leu Val Pro Asn Leu Tyr Val Ser Thr Val Ala Val Ser Leu Gln
            20                  25                  30
Gly Phe Phe Leu Gly Pro Leu Phe Pro Ala Val Val Val Val Ala Thr
        35                  40                  45
Lys Leu Leu Pro Arg Gly Leu His Val Thr Ala Ile Gly Phe Ala Ala
    50                  55                  60
Ala Phe Gly Ala Gly Gly Gly Ser Val Leu Pro Phe Ala Val Gly Ala
65                  70                  75                  80
Ile Ala Gln Ala Lys Gly Val Lys Val Leu Gln Pro Phe Ala Ile Gly
                85                  90                  95
Leu Leu Gly Ala Ile Met Gly Leu Trp Met Cys Leu Pro Arg Ile Pro
            100                 105                 110
Ala Gln His Glu Thr
        115
```

<210> 24797
<211> 75
<212> PRT
<213> A.fumigatus

<400> 24797

```
Ile Thr Glu Gly Lys Glu Trp Lys Ile Ala Phe Arg Ile Lys Phe Arg
1               5                   10                  15
Tyr Phe Lys Tyr Leu Val Ile Leu Phe Arg Leu Thr Asn Thr Pro Val
            20                  25                  30
Leu Phe Lys Arg Phe Ile Lys Lys Val Leu Tyr Lys Val Leu His Cys
        35                  40                  45
Phe Val Val Val Tyr Leu Asp Asn Ile Leu Ile Phe Leu Glu Asn Lys
    50                  55                  60
Asn Lys Tyr Ile Glu His Ile Lys Glu Val Leu
65                  70                  75
```

<210> 24798
<211> 78
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (50)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24798
Leu Met Lys Thr Lys Asp Glu Arg His Pro His Ala Asp Leu Pro Arg
1 5 10 15
Cys Arg Ala Gln Asn His Pro Glu Pro Lys Gly Phe Leu Arg Ser Gln
20 25 30
Ile Arg Ala Thr Asp Ser Gly Tyr Leu Thr Arg Gln Ile Asp Lys Asp
35 40 45
Lys Xaa Arg Phe Val Gly Gln Val Gln Pro Val Glu Ala Ser Tyr Thr
50 55 60
Tyr Gly Asn Pro Ile Arg Glu Lys Val Val Asn Met Pro Arg
65 70 75

<210> 24799
<211> 161
<212> PRT
<213> A.fumigatus

<400> 24799
Ala Gly Met Tyr Pro Pro Met Gly Ala Pro Pro Met Gly Leu Tyr Gly
1 5 10 15
Ala Pro Gln Pro Met Asn Gln Phe Thr Asp Pro Asn Asn Thr Thr Val
20 25 30
Phe Val Gly Gly Leu Ser Gly Tyr Val Thr Glu Asp Glu Leu Arg Ser
35 40 45
Leu Leu Gln Gly Phe Gly Glu Ile Thr Tyr Val Lys Ile Pro Pro Gly
50 55 60
Lys Gly Cys Gly Phe Val Gln Phe Val Gln Arg His Ala Ala Glu Met
65 70 75 80
Ala Ile Asn Gln Met Gln Gly Tyr Pro Ile Gly Asn Ser Arg Val Arg
85 90 95
Leu Ser Trp Gly Arg Ser Gln Asn Asn Ser Gly Pro Ala Gly Ser Pro
100 105 110
Tyr Arg Pro Ala Pro Pro Pro Pro Pro Met Tyr Pro Ser Met Gly Met
115 120 125
Pro Pro Ala His Gln Tyr Gly Gly Phe Ala Pro Met Lys Val Gly Ser
130 135 140
Leu Asn Asn Thr Ser Glu Ala Pro Arg Ser Ser Asp Glu Ala Gln Phe
145 150 155 160
Asp

<210> 24800
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24800
Ile Gln Leu Met Ala Gly Ala Leu Glu Val Gln Pro Thr Tyr Asn Lys
1 5 10 15
Pro Thr Pro Ile Pro His His Asp Ala Gly Thr Ala Leu Thr Asn Asp
20 25 30
Cys Ser Leu Pro Asn Ile Met Gly Phe Glu Thr Asp Leu Glu Ser Thr

```
        35                  40                  45
Pro Cys Pro Lys Lys Asn Leu Pro Lys Thr Glu Ser
    50                  55                  60

<210> 24801
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24801
Cys Asn Asp Cys Glu Asp Ser Ser Ser Leu Arg Lys Ser Glu Lys Asp
1               5                   10                  15
Trp Phe Asn Val Thr Leu Ala Asn Leu Ala Gly Met Gln Ser Arg Ala
            20                  25                  30
Ser Gly Thr Asp Ser Ser Val Ala Phe Tyr Ser Asn Phe Asn Gly Leu
        35                  40                  45
Pro Cys Ser Lys Thr Ala Arg Gly Ala Ser Thr Leu Gly Phe Arg
    50                  55                  60

<210> 24802
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24802
Leu Cys Ser Ser Ile Ser Ile Ser Ala Ala Ser Ile Thr Ser Pro Lys
1               5                   10                  15
Thr Arg Leu Arg Asp Cys Leu Asn Thr Phe Glu Glu Pro Val Trp Thr
            20                  25                  30
Gln Ala Gly Thr Thr Arg Ala Thr Thr Ser His Arg Ser Ile Ile Ser
        35                  40                  45
Glu Tyr Val Val Met Arg Ile Glu Leu Val Leu Ser Tyr Arg Trp Thr
    50                  55                  60
Arg Thr Asn Val Ile Gly Ser Thr Arg Ser Thr Val Leu Ala Pro Gln
65                  70                  75                  80
Arg Arg Ser Val Glu Glu
                85

<210> 24803
<211> 164
<212> PRT
<213> A.fumigatus

<400> 24803
Lys Arg Tyr Cys Ala Ala Ala Phe Gln Ser His Leu His Thr His Leu
1               5                   10                  15
Tyr Pro His Ser Thr Ile Ser Ile His Val Ser Val Leu Ser Ala Asp
            20                  25                  30
Gly Ser Leu Leu Ala Ala Ala Val Asn Ala Cys Thr Leu Ala Leu Val
        35                  40                  45
Asp Ala Gly Ile Pro Met Pro Gly Leu Leu Ser Ala Cys Thr Ser Gly
    50                  55                  60
Met Ser Gly Ser Ala Ser Thr Pro Arg Asp Pro Arg Asn Asp Phe Leu
65                  70                  75                  80
Asp Pro Leu Leu Asp Leu Ser Leu Pro Glu Glu Gln Glu Leu Pro Phe
                85                  90                  95
```

```
Leu Thr Val Gly Thr Thr Thr Ala Ile Pro Val Gly Glu Asp Ala Met
            100                 105                 110
Asp Asp Asp Asp Glu Asp Met Lys Val Ser Met Met Val Met Asp Ser
        115                 120                 125
Lys Val His Cys Thr Tyr Leu Glu Thr Met Leu Ala Val Gly Ile Asp
    130                 135                 140
Gly Cys Lys Gln Ile Arg Glu Ile Leu Glu Gly Val Ile Lys Gly Thr
145                 150                 155                 160
Asn Arg Gly Val
```

<210> 24804
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24804

```
Phe Ser Ser Arg Leu Val Asp Lys Met Tyr Gly Glu Pro Ile Glu Pro
1               5                   10                  15
Pro Asn Glu Val Tyr Tyr Ile Gly Ser Val Asn Gln Phe Asp Lys Ser
            20                  25                  30
Cys Asn Arg Asp Gly Ser Phe Cys Ile Val Asp Ser Ala Ala Phe Ile
        35                  40                  45
Met Ser Cys Ser Thr Cys Lys Ala Ala Ser Ser Cys Pro Ile Gly Thr
    50                  55                  60
Lys Met
65
```

<210> 24805
<211> 158
<212> PRT
<213> A.fumigatus

<400> 24805

```
Leu Ala Met Ser Leu Pro Thr Lys Gly Glu Gln Asn Leu Pro Thr Leu
1               5                   10                  15
Leu Ala Ser Met Arg Pro Thr Val His Leu Glu Thr Phe Val Phe Leu
            20                  25                  30
Thr Thr Thr Gln Pro Ile Glu Asn Leu Pro Leu Gln Ser Leu Lys Pro
        35                  40                  45
Glu Met Leu Phe Gln Glu Asp Glu Gly Leu Ser Ile Ile Thr Thr Lys
    50                  55                  60
Asp Leu Pro Glu Ser His Gly Leu Leu Glu Tyr Thr Phe Pro Cys Lys
65                  70                  75                  80
Lys Ile Ser Leu Thr Val His Ser Ser Leu Glu Ala Val Gly Leu Ile
                85                  90                  95
Ala Ala Ile Ser Ser Lys Leu Ala Ser His Gly Ile Ser Thr Asn Val
            100                 105                 110
Val Ser Gly Tyr Phe His Asp His Ile Phe Val Pro Ile Gly Gln Glu
        115                 120                 125
Asp Ala Ala Leu Gln Val Leu Gln Asp Met Met Lys Ala Ala Glu Ser
    130                 135                 140
Thr Ile Gln Lys Glu Pro Ser Leu Leu His Asp Leu Ser Asn
145                 150                 155
```

<210> 24806

<211> 65
<212> PRT
<213> A.fumigatus

<400> 24806
Lys Ala Val Glu Asn Glu Met Ser Thr Leu Pro Ser Phe Leu Thr Arg
1 5 10 15
Leu Gly Lys Thr Lys Arg Tyr Gly Val Val Ser Ser Leu Asp Ala Lys
20 25 30
Glu Val Val Arg Gln Leu Thr Gly Val Leu Asn Ile Gln Glu Ala Asp
35 40 45
Lys Asn Val Ser Arg Phe Glu Leu Arg Gly Arg Thr Val Phe Arg Gln
50 55 60
Ala
65

<210> 24807
<211> 69
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(9),(10),(13),(14),(34)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24807
His Arg Cys Gln Pro Phe Arg Xaa Xaa Xaa Ile Gly Xaa Xaa Asn Leu
1 5 10 15
Ser Ser Lys Phe Phe Glu Phe Leu Thr Gly Arg Pro Lys Gly Trp Lys
20 25 30
Thr Xaa Gly Glu Thr Ser Asp Asp Ile Ser Ala Gly Asp Val Glu Gln
35 40 45
Val Val Pro Ala Thr Asn Gln Ser Thr Lys Ser Thr Phe Leu Gly Leu
50 55 60
Arg Asn Ser Leu Ile
65

<210> 24808
<211> 83
<212> PRT
<213> A.fumigatus

<400> 24808
Ser Pro Arg Ser Ala Asp Asp Tyr Pro Gln Val Thr Ala Phe Thr Gln
1 5 10 15
Ala Lys Met Tyr Thr Gln His Gly Ala Gln Met Ala Pro Pro Gln Lys
20 25 30
Pro Glu Thr Phe Met Leu Ser Asn Glu Ala Gln Gln Ser Leu Pro His
35 40 45
Asp Ala Gln Val Ala Leu Gln Gln Val Asp Asn Cys Lys Ser Met Ile
50 55 60
Cys Tyr Ser His Leu Arg Ser Leu Cys Phe Leu Leu Val Arg Leu Leu
65 70 75 80
Ser Ala Arg

<210> 24809
<211> 276
<212> PRT
<213> A.fumigatus

<400> 24809
Arg His Ala Trp Ile Ser Arg Cys His Gln Leu Leu Ala Ser Leu Gly
1 5 10 15
Gln Lys Leu Gln Ser Leu Ala Pro Gln Pro Thr Leu Ser Asp Phe Pro
20 25 30
Met Leu Ser Leu Thr Tyr Glu Glu Leu Asp Lys Met Val Ser Ala Lys
35 40 45
Leu Pro Ile Ala Gly Ile Thr Ser Leu Asp Leu Val Glu Asp Val Tyr
50 55 60
Pro Cys Ser Arg Met Gln Gln Gly Ile Leu Leu Ser Gln Ser Arg Asn
65 70 75 80
Thr Ser Val Tyr Ala Val His Asp Thr Phe Glu Val Lys Gly Val Gly
85 90 95
Ile Lys Pro Ser Val Asp Arg Leu Ile Ile Ala Trp Gln Lys Val Val
100 105 110
Ser Arg His Ala Met Leu Arg Thr Val Phe Leu Glu Asn Leu Thr Ser
115 120 125
Gln Asp Leu Phe Cys Gln Val Val Leu Lys Glu Tyr Asn Pro Ala Pro
130 135 140
Ala Leu Leu Ser Cys Ser Glu Glu Arg Asp Val Leu Pro Thr Phe Asp
145 150 155 160
Asn Gln Gln Pro Val Asn Tyr Arg Asp Pro Arg Pro Ala His Arg Phe
165 170 175
Ser Ile Cys Glu Thr Ala Asn Gly Lys Leu Phe Cys Arg Leu Glu Ile
180 185 190
Ser His Ala Ala Met Asp Gly Thr Ser Ile Ser Leu Ile Val Arg Asp
195 200 205
Leu Gln Ser Ala Tyr Ser Gly Gln Leu Gln Glu Asp Arg Lys Pro Met
210 215 220
Phe Lys Asp Tyr Met Arg Tyr Leu Gln Ser Cys Ser His Ser Ala Gly
225 230 235 240
Leu Asn Tyr Trp Leu Pro Tyr Leu Ser Asp Val Lys Pro Cys His Phe
245 250 255
Pro Val Leu Asn Asp Gly Arg Pro Ser Asn Lys Arg Leu His Gly Leu
260 265 270
Phe Thr Ser Val
275

<210> 24810
<211> 488
<212> PRT
<213> A.fumigatus

<400> 24810
Thr Ser Ser Phe Ile Arg Arg Leu Ile Arg Asn Ser Ala Asp Arg Leu
1 5 10 15
Pro Val Ser Ala Leu Leu Ala Thr Gly Leu Val His His His Met Val
20 25 30
Arg Asn Lys Trp Arg Ser Leu Ala Ala Leu Val Val Glu Thr Ala Glu
35 40 45

```
Ala Arg Glu Val His His Met Cys Val Leu Val Gly Tyr Gly Ala Asp
    50                  55                  60
Ala Val Asn Pro Tyr Leu Ala Met Glu Cys Ile Leu Lys Met Asn Arg
65                  70                  75                  80
Glu Lys Leu Ile Arg Lys Pro Leu Ser Asp Glu Lys Val Ile Glu Asn
                85                  90                  95
Tyr Lys Ala Ser Cys Asp Gly Gly Ile Leu Lys Val Met Ser Lys Met
            100                 105                 110
Gly Ile Ser Thr Leu Gln Ser Tyr Lys Gly Ala Gln Ile Phe Glu Ala
        115                 120                 125
Leu Gly Ile Asp Asp Ser Val Ile Asp Arg Cys Phe Ala Gly Thr Ala
    130                 135                 140
Ser Arg Ile Arg Gly Leu Thr Phe Glu Leu Ile Ala Gln Asp Ala Tyr
145                 150                 155                 160
Ala Phe His Glu Arg Gly Tyr Pro Ser Arg Ser Ile Ile Glu Ile Pro
                165                 170                 175
Gly Leu Pro Glu Ser Gly Glu Tyr His Trp Arg Asp Gly Gly Glu Ala
            180                 185                 190
His Ile Asn Asp Pro Val Ser Ile Ala Asn Val Gln Asp Ala Val Arg
        195                 200                 205
Thr Lys Asn Asp Lys Ser Tyr Glu Ala Tyr Ala Lys Ala Ala His Glu
    210                 215                 220
Gln Ile Lys Asn Cys Thr Leu Arg Gly Met Leu Glu Phe Asp Phe Glu
225                 230                 235                 240
Gln Arg Ser Pro Ile Pro Ile Asp Gln Val Glu Pro Trp Thr Glu Ile
                245                 250                 255
Val Arg Arg Phe Val Thr Gly Ala Met Ser Tyr Gly Ser Ile Ser Met
            260                 265                 270
Glu Ser His Ser Thr Leu Ala Ile Ala Met Asn Arg Leu Gly Gly Lys
        275                 280                 285
Ser Asn Thr Gly Glu Gly Gly Glu Asp Pro Glu Arg Ser Lys Arg Leu
    290                 295                 300
Glu Asn Gly Asp Thr Met Arg Ser Ala Ile Lys Gln Ile Ala Ser Gly
305                 310                 315                 320
Arg Phe Gly Val Thr Ser His Tyr Leu Ala Asp Ala Asp Glu Leu Gln
                325                 330                 335
Ile Lys Met Ala Gln Gly Ala Lys Pro Gly Glu Gly Gly Glu Leu Pro
            340                 345                 350
Gly His Lys Val Val Gly Pro Ile Ala His Thr Arg Tyr Ser Thr Pro
        355                 360                 365
Gly Val Gly Leu Ile Ser Pro Pro Pro His His Asp Ile Tyr Ser Ile
    370                 375                 380
Glu Asp Leu Lys Gln Leu Ile Tyr Asp Leu Lys Cys Ser Asn Pro Arg
385                 390                 395                 400
Ser Arg Val Ser Val Lys Leu Val Ser Glu Val Gly Val Gly Ile Val
                405                 410                 415
Ala Ser Gly Val Ala Lys Ala Lys Ala Asp His Ile Leu Ile Ser Gly
            420                 425                 430
His Asp Gly Gly Thr Gly Ala Ser Arg Trp Thr Gly Ile Lys Tyr Ala
        435                 440                 445
Gly Leu Pro Trp Glu Leu Gly Leu Ala Glu Thr His Gln Thr Leu Val
    450                 455                 460
Leu Asn Asp Leu Arg Gly Arg Val Val Val Gln Thr Asp Gly Gln Leu
465                 470                 475                 480
Arg Thr Gly Arg Asp Val Ala Ile
                485
```

<210> 24811
<211> 263
<212> PRT
<213> A.fumigatus

<400> 24811
Val Asn Val Val Val Arg Trp Arg Arg Asp Lys Ala Asp Thr Gly Ser
1 5 10 15
Gly Val Thr Ser Val Gly Asn Gly Ala Asp Asn Leu Val Ala Gly Gln
20 25 30
Leu Thr Thr Phe Ser Arg Leu Ser Ala Leu Gly His Leu Asp Leu Gln
35 40 45
Leu Val Gly Ile Gly Lys Val Val Gly Ser His Thr Glu Thr Ala Gly
50 55 60
Gly Asn Leu Leu Asp Gly Arg Ala His Gly Val Thr Ile Leu Gln Ser
65 70 75 80
Leu Ala Thr Leu Arg Val Phe Thr Thr Phe Ala Gly Val Gly Phe Thr
85 90 95
Thr Lys Thr Val His Cys Asp Gly Gln Cys Gly Met Arg Phe His Arg
100 105 110
Asp Gly Ser Val Arg His Gly Thr Cys His Glu Thr Thr Asn Asn Phe
115 120 125
Ser Pro Arg Leu Asn Leu Val Asp Arg Asn Gly Ala Pro Leu Leu Glu
130 135 140
Val Glu Leu Glu His Thr Thr Gln Ser Ala Val Leu Asp Leu Leu Met
145 150 155 160
Ser Ser Leu Arg Val Ser Leu Val Arg Leu Val Val Leu Gly Thr Asp
165 170 175
Ser Ile Leu Asp Ile Gly Asp Thr Asp Gly Val Val Asp Val Arg Leu
180 185 190
Ala Ser Ile Thr Pro Val Val Leu Ala Arg Phe Arg Lys Ser Gly Asp
195 200 205
Phe Asn Asp Gly Thr Arg Trp Val Ser Ala Phe Val Glu Gly Ile Cys
210 215 220
Ile Leu Ser Asp Gln Leu Lys Ser Gln Ser Thr Asp Thr Ala Cys Ser
225 230 235 240
Ser Gly Lys Ala Ser Val Asn Asp Ala Val Ile Asp Thr Glu Ser Leu
245 250 255
Glu Asn Leu Gly Thr Leu Val
260

<210> 24812
<211> 292
<212> PRT
<213> A.fumigatus

<400> 24812
Trp Pro Leu Glu Pro Phe Ser His Thr Ile Ser Thr Cys Arg Arg Lys
1 5 10 15
Leu Tyr Leu Thr Glu Val Asp Phe His Thr Leu Ser Trp Leu Ser Pro
20 25 30
Asn Met Cys Gln Asn Glu Val Glu Val Asn Gly Trp Thr Ser Met Pro
35 40 45
Ala Asn Ala Gly Ala Ile Phe Asp Gly Gly Pro Phe Ile Asn Val Pro
50 55 60

```
Glu Ala Leu Ser Ile Glu Glu Ile Lys Phe Pro Val Asp Asp Pro Ile
65                  70                  75                  80
Val Glu Lys Thr Met Arg Tyr Ala Lys Ala Ala Leu Pro Thr Glu Thr
                85                  90                  95
Phe Asn His Ser Met Arg Val Tyr Tyr Tyr Gly Met His Asp Cys Ala
            100                 105                 110
Ser His Gly Val Leu Ile Asn Arg Ser Gln Ala Leu Gly Met Ala Ile
        115                 120                 125
Thr Lys Gln Gln Phe Pro Lys Gln Ala Ser Ala Leu Ser Pro Ser Thr
    130                 135                 140
Trp Ala Leu Thr Cys Leu Leu His Asp Ile Gly Thr Ser Asp His Asn
145                 150                 155                 160
Leu Ala Ala Thr Arg Met Ser Phe Asp Ile Tyr Gly Gly Ile Lys Ala
                165                 170                 175
Leu Glu Val Leu Lys Gly Phe Gly Ala Thr Ser Asp Gln Ala Glu Ala
            180                 185                 190
Val Ala Glu Ala Ile Ile Arg His Gln Asp Leu Gly Val His Gly Thr
        195                 200                 205
Ile Thr Tyr Ile Gly Gln Leu Ile Gln Leu Ala Thr Ile Tyr Asp Asn
    210                 215                 220
Val Gly Ala His Pro Tyr Val Lys Asp Phe Gly Glu Leu Ile His Asp
225                 230                 235                 240
Thr Thr Arg Ser Gln Val His Glu Ala His Pro Pro Gly Glu Trp Arg
                245                 250                 255
Thr Phe Phe Ser Gly Val Ile Gln Lys Glu Gln Ala Ile Lys Pro Trp
            260                 265                 270
Cys His Thr Lys Lys Met Val Asn Val Leu Arg Lys Gly Ser Gln His
        275                 280                 285
Pro Asp Glu Gln
    290
```

<210> 24813
<211> 75
<212> PRT
<213> A.fumigatus

```
<400> 24813
Ser Thr Ser Ser Ser Pro Gly Ala Tyr Ile Val Phe Ile Tyr Ile Trp
1               5                   10                  15
Ala Ile Ile Tyr Gln Leu Ser Ile Gly Ala Val Gly Phe Val Leu Ala
            20                  25                  30
Ser Glu Ile Ala Thr Val Arg Leu Arg Ser Thr Thr Gln Gly Leu Val
        35                  40                  45
Thr Ile Thr Asn Ala Ala Trp Gly Leu Ile Ile His Phe Thr Ile Pro
    50                  55                  60
Tyr Met Val Cys Ser Gly Leu Pro Tyr Arg Ile
65                  70                  75
```

<210> 24814
<211> 167
<212> PRT
<213> A.fumigatus

```
<400> 24814
Ala Val Pro Ser Ser Trp Leu Pro His Asn Ser Thr Ala Pro Ser His
1               5                   10                  15
```

```
His Ser Pro Arg Ser Val Asp Leu Ser Pro Thr Ser Thr Ile Gln Tyr
            20                  25                  30
Leu His Cys Ser Leu Ser Pro Arg His Leu Ile Tyr Tyr Ile Leu Pro
        35                  40                  45
Thr Ser Leu Ser Leu Ser Leu Arg Val Asp Gly Ser Pro Pro Leu Arg
    50                  55                  60
Ala Thr Leu Asn Met Val Gln Ser Pro Met Leu Ser Cys Pro Leu Lys
65                  70                  75                  80
Gln Thr Asn Glu Ile Asp Trp Ile Arg Pro Leu Lys Asp Tyr Ile Arg
                85                  90                  95
Gln Ser Tyr Gly Glu Asp Pro Glu Arg Tyr Asn Gln Glu Cys Ala Thr
            100                 105                 110
Leu Asn Arg Leu Arg Gln Asp Met Arg Gly Ala Gly Lys Asp Ser Ala
        115                 120                 125
Thr Gly Arg Asp Leu Leu Tyr Arg Tyr Tyr Gly Gln Leu Glu Leu Leu
    130                 135                 140
Asp Leu Arg Phe Pro Val Asp Glu Asn His Ile Lys Ile Ser Phe Thr
145                 150                 155                 160
Trp Tyr Gly Phe Ser Ala Cys
                165
```

<210> 24815
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24815

```
Arg Ile Leu Thr Val Val Cys Ala Arg Asn Ser Leu Pro Ser Asp Gly
1               5                   10                  15
Gly Asn Ala Pro Asn Gln Ser His Lys His Glu Gly Phe Leu Lys Ser
            20                  25                  30
Ala Trp His Lys Leu Met Asn Ser Thr Lys Asn Gly Asp Gly Glu Asn
        35                  40                  45
Ser Ala Ser Asn Ser Gly Lys Lys Glu Ser Gly Asp Ala Glu Lys Ser
    50                  55                  60
Asp Lys Glu Ser Lys
65
```

<210> 24816
<211> 93
<212> PRT
<213> A.fumigatus

<400> 24816

```
Asp Phe Leu Ser Met Arg Ile Thr Ser Lys Ser Pro Leu His Gly Met
1               5                   10                  15
Ala Ser Gln Leu Val Asp Ala Arg Leu Trp Leu Asp Gly Ser His Leu
            20                  25                  30
Leu Ile Asp Ala Gln Arg Ser His Asp Arg Tyr Asp Ala Phe Thr His
        35                  40                  45
Lys Pro Thr Ser Gln Tyr Ser Leu Ala Tyr Glu Lys Ala Ser Ile Ile
    50                  55                  60
Phe Asn Ile Ser Ala Val Leu Ser Cys His Ala Ala Asn Asp Asn Ala
65                  70                  75                  80
Ala Asp Val Arg Phe Asp Gln Ala Glu Lys Tyr Arg Pro
                85                  90
```

<210> 24817
<211> 242
<212> PRT
<213> A.fumigatus

<400> 24817
Pro Arg Ile Ser Ser Gln Ala Asp Tyr Asp Lys Glu Cys Asn Glu Lys
1 5 10 15
Leu Ile His Ile Arg Asp Thr Arg Ala Arg Gln Ala Ala Val Met Gln
20 25 30
Asn Gly Met Met Pro Gln Gly Pro Ala Ala Gly Met Pro Gly Val Gly
35 40 45
Gln Asn Gly Phe Gln Gln Leu Asn Arg Pro Val Gln Ala Ser Pro Met
50 55 60
Pro Gly Gln Gln Gln Met Pro Ile Gly Ile Asn Asp Pro Thr Gln Gln
65 70 75 80
Ala Ala Ile Gln Gln Arg Gln Gln Gln Gln Gln Gln Gln Gln Gln Ser
85 90 95
Gln Gln Gln Gln Gln Gln Gln Gln Ser Gln Gln Asn Gln Ala Met Leu
100 105 110
Gln Gln Gln Arg Val Gln Gln Arg Pro Gly Gly Asn Ala Ser Leu Pro
115 120 125
Asp Asp Leu Asn Thr Leu Ser Ala Gln Glu Tyr Glu His Val Cys Arg
130 135 140
Ile Ala Asn Gln Ile Leu Ala Lys Thr Pro Gln Glu Asp Met Glu Lys
145 150 155 160
Ile Arg Met Asn Leu Gln Asn Met Thr Pro Glu Gln Arg Gln Tyr Leu
165 170 175
Thr Arg Lys Asn Met Asp Pro Ile Thr Tyr Phe Phe Arg Cys Gln Ala
180 185 190
Leu Asn Gln Leu Arg Arg His Lys Arg Asn Arg Met Glu Met Ala Arg
195 200 205
Ala Gln Ser Ala Gly Val Asp Pro Asn Gly Ala Met Met Thr Asp Pro
210 215 220
Met Met Asn Pro Gln Gln Arg Gln Ile Phe Gln Asn Met Val Thr Leu
225 230 235 240
Gln Leu

<210> 24818
<211> 130
<212> PRT
<213> A.fumigatus

<400> 24818
Phe Glu Val Tyr Trp Ala Lys Glu Asp His Tyr Gly Ala His Tyr Asp
1 5 10 15
Ala Gly Asp Tyr Asp Arg Gly Arg His Ser Leu Val Gly Glu Ser Ser
20 25 30
Val Arg Gly Ala Tyr Arg Val Asn Ala Trp Trp Ser Ser Leu Ile His
35 40 45
Tyr Ile Phe Leu Asp Glu Pro Arg Thr Met Cys Val Val Gly Glu Pro
50 55 60
Lys Ala Thr Asn Thr Thr Val Leu Ser Tyr Glu Asn Ala His Gly Leu
65 70 75 80

```
Thr Val Gln Lys Tyr Val Asp Leu Gly His Lys Arg Ser Val His Val
                85                  90                  95
Tyr Cys Ser Arg Glu Lys Trp Phe Gln Leu Cys Pro Leu Phe Trp Asp
            100                 105                 110
Gly Arg Glu Arg Pro Leu Glu Ser Ser Asp Arg Met Ala Trp Asp Ala
        115                 120                 125
Lys Leu
    130
```

<210> 24819
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24819

```
His Arg Thr Ala Ile His Gly Thr Ile Arg Ser Thr Ala Arg Arg Ser
1               5                   10                  15
Leu Asp Asp Gln Leu Ile Ser Phe Ser Ile Ile Pro Leu Phe Thr Phe
            20                  25                  30
Leu Asp Ala Thr Thr Val Leu Leu Thr Thr Val Tyr Tyr Phe Gly Gly
        35                  40                  45
Phe Arg Ser Val Cys His Met Ser Phe Ala Tyr Leu Ser Gly Ser Glu
    50                  55                  60
Ser Phe
65
```

<210> 24820
<211> 257
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (80)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24820

```
Tyr Arg Gly Gln Met Pro Glu Ile Pro Leu Ser Lys Leu Asp Leu Gln
1               5                   10                  15
Val Pro Gly Trp Gly Ser Ile Glu Ala Arg Thr Gln Ile Leu Ile Lys
            20                  25                  30
Thr Lys Val Gln Asn Asp Gly Cys Leu Asp Arg Ser Asn Thr Pro Gly
        35                  40                  45
Pro Arg Lys Pro Thr Pro Asn Pro Gln Ser Leu Ser Pro Arg Arg Ser
    50                  55                  60
Asn Ile Ser Cys Ile Ser Ile Pro Thr Ala Glu Val Thr Ile Leu Xaa
65                  70                  75                  80
His Ser Leu Phe Pro Pro Ser Thr Pro Pro Glu Lys Ala Arg Leu Tyr
                85                  90                  95
His His Leu Val Asn Ser Arg Arg Val Gln Pro Thr Phe His Val Thr
            100                 105                 110
Phe Ile His Arg Ala Ser Lys Thr Glu Arg Val Asp Ile Trp Asp Arg
        115                 120                 125
Tyr Ala Asn Gln Tyr Ile Ala Lys Met Lys Glu Gln Ser Gln Ala Gln
    130                 135                 140
Ala His Thr Ala Ser Pro Val Leu Thr Pro Thr Leu Ala Pro Ala Arg
```

```
145                 150                 155                 160
Val Arg Leu Glu Arg Leu Ile Trp Asp Asp Arg Ile Met Ala Phe Val
                165                 170                 175
Ala Arg Ile Met Pro Pro Gly Asp Arg Glu Gln Pro Asp Trp Pro Cys
            180                 185                 190
Ala Asn Pro Ile Pro His Val Thr Val Gly Thr Ala Ser Ala Glu Val
        195                 200                 205
Lys Pro Lys Glu Ser Asn Asp Leu Leu Arg Arg Trp Leu Glu Val Gly
    210                 215                 220
Ser Gly Gly Asp Thr Gly Ile Trp Glu Ala Glu Ile Pro Gly Val Lys
225                 230                 235                 240
Val Val Gln Gly Ser Val Gly Met Val Met Ser Arg Gly Lys Leu Leu
                245                 250                 255
Lys
```

<210> 24821
<211> 153
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(44)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24821

```
Ala Gln Asp Pro Gly Thr Asp Xaa Gln Asp Pro Pro Lys Thr Glu Pro
1               5                   10                  15
Pro Pro Pro Lys Gly Pro Val Lys Asn Arg Gly Ser Pro Pro Glu Pro
            20                  25                  30
Pro Arg His Pro Ser Tyr Pro His Pro Gly Val Xaa Gly Cys Gln Arg
        35                  40                  45
Arg His Leu Asn Arg Gln Pro Gln Trp Arg Arg Arg Gln His Arg Gln
    50                  55                  60
Leu Arg Arg Leu Arg Thr Pro Pro Ser Pro Arg Arg Gln Lys Val Asn
65                  70                  75                  80
Ala Gln Lys Ala Asp Arg Pro Asp Pro Thr Pro Gln Thr Cys Leu Phe
                85                  90                  95
Leu Gly Pro Arg Pro Arg Arg Pro Asp Leu Pro Ala Arg His Leu Gln
            100                 105                 110
Gly Leu Pro Gly Ala Arg Leu Gln His Ala Leu Leu Ala Ala Gly Asn
        115                 120                 125
Ala Asp His Gln Ser Glu Phe Leu Val Ser His Ala Val Gly Ala Phe
    130                 135                 140
Arg Asp Pro Gly Leu Val Val Gln Gly
145                 150
```

<210> 24822
<211> 243
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(44)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24822

```
Pro Lys Thr Arg Glu Arg Thr Xaa Lys Thr Pro Pro Lys Pro Ser Pro
1               5                  10                  15
Arg Pro Arg Lys Ala Pro Ser Lys Thr Glu Val Pro Pro Arg Ser Leu
            20                  25                  30
His Gly Thr Pro His Thr Pro Thr Leu Ala Phe Xaa Gly Ala Asn Ala
        35                  40                  45
Ala Ile Ser Ile Asp Asn Pro Asn Gly Asp Ala Asp Asn Ile Ala Asn
    50                  55                  60
Tyr Gly Asp Phe Val Arg Pro Arg Pro Gln Gly Ala Arg Lys Leu Met
65                  70                  75                  80
Leu Arg Lys Leu Thr Asp Gln Thr Pro Leu His Lys His Val Phe Phe
                85                  90                  95
Trp Asp Arg Asp His Asp Gly Gln Ile Tyr Pro Leu Asp Thr Tyr Lys
            100                 105                 110
Gly Phe Arg Glu Leu Gly Phe Asn Met Leu Phe Ser Leu Leu Ala Met
        115                 120                 125
Leu Ile Ile Asn Leu Asn Phe Ser Tyr Pro Thr Arg Leu Val His Ser
    130                 135                 140
Val Ile Pro Asp Leu Trp Phe Arg Val Asp Val Gly Gly Ile Tyr Lys
145                 150                 155                 160
Ala Lys Val Gly Ser Phe Asp Leu Gly Arg Val Glu Met Gly Ala Asp
                165                 170                 175
Glu Arg Tyr Ala Met Gln His Gly Ser Asp Ser Gly Thr Tyr Asp Pro
            180                 185                 190
Glu Gly Arg Phe Ile Pro Gln His Phe Glu Asp Val Phe Ala Lys Tyr
        195                 200                 205
Asp Arg Asp His Asp Gly Ala Leu Thr Leu Gly Glu Leu Phe Glu Met
    210                 215                 220
Val Gln Gly Asn Arg Cys Ala Met Asp Pro Phe Gly Val Gly Leu Phe
225                 230                 235                 240
Leu Leu Ala
```

<210> 24823
<211> 99
<212> PRT
<213> A.fumigatus

<400> 24823

```
Ala Glu Leu Arg Ala Asn Gly Tyr Lys Met Thr Gln Asn Glu Glu Asp
1               5                  10                  15
Ser Leu Ile Arg Trp Ile Leu Ser Met Asp Gln Arg Gly Ala Ala Pro
            20                  25                  30
Arg Pro Ser His Val Arg Glu Ile Ala Asn Ile Leu Leu Ala Gln Arg
        35                  40                  45
Gly Ser Thr Pro Thr Gln Thr Val Gly Glu Lys Trp Val Tyr Asn Phe
    50                  55                  60
Ile Asn Arg His Asn Glu Ile Lys Thr Arg Phe Ser Arg Arg Tyr Asn
65                  70                  75                  80
His Gln Cys Ala Lys Cys Glu Asp Leu Lys Ile Ile Leu Glu Trp Phe
                85                  90                  95
Asn Tyr Val
```

<210> 24824
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24824
Ser Asp Ser Ser Val Glu Arg Arg Ser Asp Leu Leu Ile Met Tyr Leu
1 5 10 15
Ser Pro Thr Ala Phe Leu Leu Cys Pro Glu Asp Gly Ser Ser Cys Pro
20 25 30
Leu Ser Thr Val Leu Met Phe Asp Asn Phe Ser Ser Pro Ala Leu Val
35 40 45
Cys Glu Phe Pro Ser Thr Tyr Leu Pro Phe Ile Gly Asp Leu Glu Cys
50 55 60
Gln Ala Val Phe Tyr Val Leu Phe Phe Lys Ile Gln Asn Asp Ala Thr
65 70 75 80
Met His Gly Val Leu Leu Lys Arg Asn Gly Val Tyr Leu Ala Cys Ser
85 90 95
Gln Gln Ser His Ala Leu
100

<210> 24825
<211> 109
<212> PRT
<213> A.fumigatus

<400> 24825
Arg Leu Trp Ser Lys Ile Phe Arg Trp Glu His Asp Pro Ala Trp Ala
1 5 10 15
Ile Thr Ser Lys Leu Leu Ile Ser Lys His Gln Gln Val Gln Leu Leu
20 25 30
Glu Ala Ala Ser Val Leu Val Asn Met Asn Gln His Ala Pro Ser Glu
35 40 45
Ser Ala Glu Ala Glu Ser Asp Gln Ser Ser Ala Ser Pro Asp Thr Ser
50 55 60
Ser Glu Leu Arg Asp Gly Ile Ser Ser Ala Glu Thr Thr Pro Pro Pro
65 70 75 80
Met Asp Glu Asp Asp Glu Asn Glu Glu Asp Met Glu Met Ser Gly Met
85 90 95
Pro Val Phe Pro Asn Lys Arg Tyr Ser Val Gly Val Phe
100 105

<210> 24826
<211> 200
<212> PRT
<213> A.fumigatus

<400> 24826
Pro Arg Cys Tyr Trp Ser Glu Glu Cys His His His Trp Leu Leu Gln
1 5 10 15
Met Pro Leu Pro Arg Ser Pro Pro Ser Met Lys Asp Thr Asn Gly Glu
20 25 30
Pro Ile Gly Val Pro Met Leu Leu His Arg Arg Ser Ser Thr Arg Arg
35 40 45
Gly Leu Glu Ser Thr Ser Val Gly Ala Pro Ser Gly Phe Gly His Tyr

```
    50                  55                  60
Leu Ser Arg Ser Met Asn Ser Pro Ser Gln Glu Pro Ala Val Ala Arg
65                  70                  75                  80
Lys Pro Ser Pro Asn His Ser Asn Ile Gly Ala Ser Ser Val Ala Ala
                85                  90                  95
Ala Gly Gly Glu Glu Ser Ser Ser Asp Asn Lys Pro Val Asn Thr Lys
            100                 105                 110
Ser Arg Asn Arg Arg Ala Ser Glu Gly Ser His Leu Val Lys Gly Glu
        115                 120                 125
Gly Lys Arg Ala Leu Ala Glu Leu Arg Cys Asp Arg Cys Gly Lys Gly
    130                 135                 140
Tyr Lys His Gly Ser Cys Leu Ser Lys His Met Cys Val Tyr Ser Pro
145                 150                 155                 160
Pro Lys Cys His Pro Ala Ala Trp Ile Glu Ser Glu Gln Cys Ala Met
                165                 170                 175
Ser Ala Leu Leu Gln Gly Arg Pro Arg Gly His Ala Ala Pro Leu Val
            180                 185                 190
Ser Pro Asp Pro Phe Pro Pro Leu
        195                 200
```

<210> 24827
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24827

```
His Thr Thr Val Gly Ser Val Gln Asp Tyr Ile Ser Thr Asn Gln Leu
1               5                   10                  15
Ala Glu Tyr Ser Val Arg Asp Val Gly Trp Ile Thr Ala Ile Leu Val
            20                  25                  30
Phe Leu Thr Leu Phe Leu Gly Val Gln Val Gly Pro Leu Phe Asp Arg
        35                  40                  45
Tyr Gly Pro Arg Ile Leu Leu Val Cys Gly Ser Leu Ala Gln His His
    50                  55                  60
Leu Leu Tyr Ser Gly
65
```

<210> 24828
<211> 60
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (45)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24828

```
Leu Arg Ile Leu Leu Tyr Ile Pro Asn Leu Asn Leu Ser Thr Ser Ile
1               5                   10                  15
Ser Arg Tyr Ile Ser Ile His Val Trp Leu Ser Ser Glu Thr Ile Ser
            20                  25                  30
Lys Arg Ile Asn Ile Asn Ile Asn Ala His Leu His Xaa Phe Thr Asp
        35                  40                  45
Glu Arg Gln Ala Gln Asn Leu Lys Asn Pro Asn Thr
    50                  55                  60
```

<210> 24829
<211> 165
<212> PRT
<213> A.fumigatus

<400> 24829
Val Leu Phe Leu Ser Ala Met Lys Leu Ser Ala Leu Leu Gln Pro Leu
1 5 10 15
Val Leu Gly Met Ser Ala Ser Ala Ala Ala Arg Pro Ser Lys Pro Ser
20 25 30
Thr Tyr Thr Glu Pro Tyr Arg Pro Gln Tyr His Phe Ser Pro Glu Lys
35 40 45
Asn Trp Met Asn Asp Pro Asn Gly Leu Val Tyr Asp Ala Lys Glu Gly
50 55 60
Val Tyr His Leu Tyr Phe Gln Tyr Asn Pro Gly Gly Thr Thr Trp Gly
65 70 75 80
Ala Met Ser Trp Gly His Ala Thr Ser Lys Asp Leu Met His Trp Thr
85 90 95
Glu His Pro Val Ala Leu Arg Ala Lys Gly Phe Pro Asp Asn Ile Thr
100 105 110
Glu Met Phe Phe Ser Gly Thr Val Val Ile Asp Glu Arg Asn Thr Ser
115 120 125
Gly Phe Gly Arg Asn Gly Asn Thr Pro Trp Val Ala Met Tyr Thr Ser
130 135 140
Tyr Val Ser Val Leu Tyr Ser Leu Val Leu Ile Arg Thr Asn Leu Arg
145 150 155 160
Phe Leu Arg Ala Ala
165

<210> 24830
<211> 124
<212> PRT
<213> A.fumigatus

<400> 24830
Gly Phe Gly Ile Gly Tyr Ile Ile Lys Asp Asp Tyr Ile Ser Ile Cys
1 5 10 15
Ala Ser Ser Lys His Arg Gln Thr Ala Arg Leu Met Gln Thr Leu Glu
20 25 30
Ser Tyr Leu Tyr Glu Ile Arg Lys Leu Leu Arg Ala Thr Asn Ser Lys
35 40 45
Ala Val Ser Pro Arg Thr Ser Arg Ala Arg Glu Met Glu Met Val Ala
50 55 60
Glu Arg Phe Gln Asn Asp His Arg Arg Gly Arg Leu Val Arg Gly Asp
65 70 75 80
Ser Gly Leu Val Arg Arg Gly Thr Asp Thr Pro Thr Thr Asp Ser Gly
85 90 95
Asp Ile Glu Asp Asp Gly Met Gly Gly Cys Arg Ser Leu Ser Arg Ser
100 105 110
Tyr Leu Phe Ser Arg His Leu Leu Thr Met Thr Val
115 120

<210> 24831
<211> 300
<212> PRT

<213> A.fumigatus

<400> 24831
Ala Thr Met Val Ala Leu Gln Asn Ala Leu Ala Tyr His Glu Pro Gly
1 5 10 15
Ile Lys Thr Ile Leu Ile Gln Thr Ser Phe Leu Leu Ala Leu Asn Trp
20 25 30
Val Asn Thr Leu Leu Asp Lys Leu Ile Tyr Cys Gly Leu Ile Gly Gln
35 40 45
Leu Leu Ile Gly Ile Ala Trp Gly Val Pro Gly Ala Asn Trp Leu Glu
50 55 60
Leu Asp Val Gln Lys Thr Ile Gln Gln Leu Gly Tyr Leu Gly Leu Leu
65 70 75 80
Leu Leu Val Tyr Glu Gly Lys Leu Ile Ala Glu Ala Pro Ala Asp Thr
85 90 95
Val Ile Phe Asp Glu Ile Val Ser Thr Gly Gly Leu Ser Thr Ser Phe
100 105 110
Ser Gln Leu Lys Ser Asn Ile Gly Leu Ser Ser Met Val Ala Ile Thr
115 120 125
Gly Ile Ala Val Pro Met Ala Leu Ser Phe Ile Leu Met Ser Leu Leu
130 135 140
Ser Ala Thr Pro Leu Gln Ala Phe Ala Ala Gly Ala Ser Leu Cys Ser
145 150 155 160
Thr Ser Ile Gly Thr Thr Phe Thr Ile Leu Ser Thr Thr Gly Leu Ala
165 170 175
Lys Thr Arg Leu Gly Ile Val Leu Gly Ser Ala Ala Met Met Asp Asp
180 185 190
Val Ala Gly Leu Val Met Val Gln Ile Ile Ser Ser Leu Gly Ser Ala
195 200 205
Asn Gln Glu Ser Ser Phe Asp Pro Val Val Val Ile Arg Pro Ile Phe
210 215 220
Val Ala Val Gly Phe Ala Leu Gly Leu Leu Leu Ile Trp Arg Phe Val
225 230 235 240
Val Val Ala Val Val Arg Lys Tyr Gln Ala His Ala Ile Arg Ile Pro
245 250 255
Gly Trp Met Arg Ser Leu Asn Val Ala Leu Val Ile Tyr Met Leu Tyr
260 265 270
Leu Ile Gly Leu Val Thr Ser Ala Gln Tyr Ala Gly Thr Ser Gly Leu
275 280 285
Phe Ala Ala Tyr Leu Ala Gly Ala Ser Ile Ser Trp
290 295 300

<210> 24832
<211> 317
<212> PRT
<213> A.fumigatus

<400> 24832
Glu Asp Ile Arg Asp Val Phe Ala Ala Lys Gly Phe Leu Val Asp Val
1 5 10 15
His Leu Pro Leu Asp Ala Glu Thr Arg Lys His Ala Gly Phe Gly Tyr
20 25 30
Leu Tyr Phe Pro Ser Ile His Ala Ala Arg Ala Ala Leu Asp Ala Leu
35 40 45
Gln Gly Thr His Ile Asp Gly His Ser Ile Asn Leu Glu Leu Ser Asp
50 55 60

```
His Ser Pro Ile Thr Ser Leu His Arg Asp His Pro Ser Glu Leu Asp
65                  70                  75                  80
His Ala Arg Arg Pro Ser Glu Leu His Ser Ser Ala Ser Pro Ser Ser
                85                  90                  95
Gly Ile Gln Pro Glu Arg Leu Glu Val Gly Gln Asp Leu Lys Ala Arg
            100                 105                 110
Glu Ala Arg Pro Ile Pro Leu Ser Val Thr Asp Leu Cys Ser Ser Asn
        115                 120                 125
Glu Ser Thr Asp His Glu Pro Lys Gly Asn Asn Ile Leu Ser Thr Thr
    130                 135                 140
Pro Asp Asn Phe Pro Arg Leu Thr Arg Asp Leu Glu Gln Ser Arg Phe
145                 150                 155                 160
Pro Pro Leu Ser Gln Ile Asp Ala Arg Val Leu Thr His His Arg Arg
                165                 170                 175
Asp Pro Asp Thr Ser Met Leu Gly Ala Ser Ala Pro Ala Cys Asp Ala
            180                 185                 190
Ser His Gly Asn Asp Ala Ser Gly Arg Ser Cys Gln Leu Gln Gly Thr
        195                 200                 205
Pro Gly Ser Phe Pro Asp Asp Asp Ser Asp Gly Thr Arg Ser Gly Pro
    210                 215                 220
Leu Gln Glu Leu Ala Gln Thr Ser Gly Ala Gly His Asp Asp His Cys
225                 230                 235                 240
Lys Pro Arg Arg Ser Lys Ser Met Arg Tyr Leu Asn Arg Asn Gly Asp
                245                 250                 255
Lys Ser Pro Ser Arg Ala Leu Arg Arg Arg Ala Thr Glu Arg His Ser
            260                 265                 270
Leu Arg His Gly Thr Arg Asn Ser Val Gly Gly Phe His Asp Glu Gly
        275                 280                 285
Cys Ala Tyr Asp Asn Tyr Ser Asn Thr Ser Gly Tyr Ser Arg Pro Arg
    290                 295                 300
Ser Pro Ala Ala Ser Gln Glu Lys Ile Ser Val Pro Gly
305                 310                 315
```

<210> 24833
<211> 242
<212> PRT
<213> A.fumigatus

<400> 24833

```
Arg Arg Ser Ser Ser Arg Gly Glu Glu Ser Val Arg His Ser Ala Pro
1               5                   10                  15
Thr Phe Asp Leu Pro Tyr Arg Pro His Pro Trp Arg Arg Cys His Ser
            20                  25                  30
His His His His Pro His Pro His Ser Arg Pro His Pro Pro Pro Pro
        35                  40                  45
Pro Pro His Ser His His Asp Ile Pro His Pro His Pro Pro His Leu
    50                  55                  60
Pro His His Tyr His Gln His Gln Pro Arg Pro Phe Pro Pro Pro Pro
65                  70                  75                  80
Pro Pro His Gln His His His Met Pro Pro Pro Pro Pro Pro Pro His
                85                  90                  95
Pro Phe His Pro Ser His Thr Pro Arg Pro Ser Trp Gly Ala His Gly
            100                 105                 110
Pro Phe Arg Pro Ser Phe Pro Pro His Pro Arg Ala His Asp His Gly
        115                 120                 125
Ser Trp Arg Ser Ala Trp Pro Phe Phe Trp Pro His Gln Glu Tyr Gln
```

```
    130                 135                 140
Ser Glu Ala Pro Thr Val Ala Met Asp Gln Leu Pro Asp Ala Thr Ala
145                 150                 155                 160
Ser Ala Pro Arg Pro Ala Asp Ala Val Leu Phe Ile Gly Asn Val Arg
                165                 170                 175
Phe Asn Val Ser Glu Lys Thr Ser Glu Met Tyr Ser Leu Arg Lys Gly
            180                 185                 190
Ser Leu Leu Met Ser Thr Cys Leu Trp Thr Pro Lys Pro Gly Asn Met
        195                 200                 205
Gln Ala Leu Val Thr Tyr Thr Ser Leu Gln Phe Thr Arg Gln Gly Arg
    210                 215                 220
His Trp Met Pro Cys Lys Val His Thr Leu Met Val Thr Leu Ser Ile
225                 230                 235                 240
Trp Asn
```

<210> 24834
<211> 134
<212> PRT
<213> A.fumigatus

<400> 24834

```
Gln Leu Ser Ala Leu Gln Thr Asp Thr Pro Gly Ala Ala Arg Lys Met
1               5                   10                  15
Ala Thr Arg Ser Ala Met Ile His Asp Arg Glu His Ala Asp Glu Val
            20                  25                  30
Glu Met Met Asp Gly Arg Gly Arg Gly Leu Pro Met Met Gly Ala Glu
        35                  40                  45
Tyr Ala Arg Asp Gly Thr Gly Glu Gly Gly Glu Gly Gly Glu Ala Tyr
    50                  55                  60
Asp Asp Val Asp Ala Val Gly Glu Ala Glu Glu Arg Asp Glu Ala Asp
65                  70                  75                  80
Val Asp Asp Ser Gly Gly Glu Gly Glu Glu Asp Glu Asp Gly Glu Tyr
                85                  90                  95
Arg Asp Gly Cys Ala Glu Glu Gly Ala Ala Asp Gly Asp Glu Asn Glu
            100                 105                 110
Asp Ala Asp Asp Gly Gly Gly Asn Asp Asn Gly Ala Thr Asp Glu Val
        115                 120                 125
Tyr Lys Glu Asp Gln Thr
    130
```

<210> 24835
<211> 247
<212> PRT
<213> A.fumigatus

<400> 24835

```
Gly Phe Gly Gly Gly Pro Gly Arg Lys Gln Met Gly Pro Arg Gly Phe
1               5                   10                  15
Gly Gly Phe Gln Ala Pro Ala Met Leu Ser Gln Gly Glu Thr Lys Thr
            20                  25                  30
Leu Lys Ser Leu Val Gly Thr Val Cys Gly Val Thr Pro Leu Val Thr
        35                  40                  45
Asp Phe Asn Arg Glu Tyr Lys His His Ile Tyr Gln Pro Cys Met Pro
    50                  55                  60
His Val Leu Asn Ala Leu Thr Arg Gln Ile Asp Met Ala Asn Arg Thr
```

```
65                  70                  75                  80
Asp Asp Phe Thr Ser Trp Pro Trp His Ser Lys Trp Met Gln Ser Val
                85                  90                  95
Thr Glu Gly Tyr Asp Lys Gln Asn Glu Leu Thr Pro Arg Leu Gly Phe
            100                 105                 110
Lys Asp Ile Leu Ala Lys Glu Gln Leu Glu Ser Pro Ser Ala Lys His
        115                 120                 125
Trp Pro Val Gln Ser Lys Glu Ile Asn Tyr Tyr Gly Tyr Pro Asp Thr
    130                 135                 140
Glu Leu Arg Glu Tyr Phe Arg Asp Ala Ile Asp Asp Ala Glu Arg Glu
145                 150                 155                 160
Arg Lys Arg Leu Phe Ile Thr His Leu Thr Gly Thr Thr His His Pro
                165                 170                 175
Trp Gly Met Pro Asn Asn Ser Tyr Gln His Phe Met Gly Asp Lys Asn
            180                 185                 190
Phe Lys Ala Lys Asp Asp Leu Asn Lys Tyr Leu Asn Thr Ile Gly Phe
        195                 200                 205
Ile Asp Asn Trp Leu Ala Glu Ile Met Asp Ile Leu Thr Glu Lys Gly
    210                 215                 220
Val Ala Asp Glu Thr Leu Leu Val Met Ala Gly Asp His Gly Leu Ser
225                 230                 235                 240
Leu Pro Asn Asp Gly Gly Val
                245
```

<210> 24836
<211> 476
<212> PRT
<213> A.fumigatus

<400> 24836

```
Leu Pro Asp Ala Ile Pro Phe Ser Leu Gly Arg Val Arg Gln Pro Trp
1               5                   10                  15
Arg Gln Leu Met Gln Asp Val Ser Pro Ser Phe Thr Ser Ser Pro Thr
            20                  25                  30
Ser Thr Met Thr Thr Ile Ser Thr Thr Thr Ala Ala Thr Ala Ala Ala
        35                  40                  45
Ala Pro Lys Pro Asp Lys Pro Arg Lys Leu Arg Ser Ala Cys Asp Ala
    50                  55                  60
Cys His Arg Ser Lys Thr Arg Cys Ser Gly Gly Asn Pro Cys Thr Arg
65                  70                  75                  80
Cys His Glu Tyr Met Ser Pro Cys Thr Tyr Ser Tyr Ser Ser Arg Cys
                85                  90                  95
Gly Lys Pro Lys Gly Ala Arg Ser Arg Lys Thr Leu Glu Arg Glu Gln
            100                 105                 110
Arg Val Ala Ala Ala Ala Glu Ser Ala Arg Ile Ala Arg Asn Pro Ser
        115                 120                 125
Ala Leu Ala Ser Leu Pro Ala Thr Ser Thr Cys Thr Ser Thr Ala Thr
    130                 135                 140
Thr Ala Ala Ala Ala Ala Ala Ala Ala Thr Thr Thr Thr Ile Ala Thr Thr
145                 150                 155                 160
Thr Ala Pro Ser Gln Gly Pro Ala Val Asp Ser Ala Ala Ala Ala Ala
                165                 170                 175
Ala Ala Thr Thr Ser Thr Val Ala Ser Pro Arg Ala Asp Asp Cys Leu
            180                 185                 190
Gly Leu Phe Asp Asp Asp Glu Glu Ser Asn Pro Phe Phe Ser Ser Gly
        195                 200                 205
```

```
Ser Glu Asn Thr Gly Gly Thr Ser Phe Ser Pro Asp Trp Ile Pro Pro
    210                 215                 220
Leu Pro Ser Ile Ser Asp Ser Asp Leu Ser Phe Pro Leu Leu Glu Ser
225                 230                 235                 240
Cys Leu Gly Pro Asp His Asp Cys Asn Asp Ser Leu Phe Trp Ser Thr
                245                 250                 255
Thr Ala Glu Pro Asp Cys Gln Pro Thr Ser Lys Glu Pro Leu Asp Pro
            260                 265                 270
Arg Ser Lys Leu Leu Arg Ser Cys Lys Cys Leu Gln Thr Leu Ser Ser
        275                 280                 285
Leu Thr Ala Arg Asp Ile Arg Arg Phe Asp Ala Thr Phe Val Phe Val
    290                 295                 300
Arg Asn Tyr Ala Arg Ala Phe Ser Ala Phe Tyr His Cys Ser His Cys
305                 310                 315                 320
Pro Lys Asp Ala Gly Ser Ile Ser Met Ala Val Thr Ala Leu Gln Leu
                325                 330                 335
Ala Thr Thr Ala Leu Glu Lys Thr Ala Thr Ala Gly Thr Asp Ala Ala
            340                 345                 350
Gly Phe Lys Ser Gly Cys Ser Gly Met Thr Ala Ala Asp Leu Asp Glu
        355                 360                 365
Asp Leu Leu Thr Pro Gly Ala Glu Phe Phe Leu Pro Ala Asn Gly Arg
    370                 375                 380
Gly Ala Ser Asn Pro Ala Phe Gln Leu Gly Ser Tyr Gln Ile Ala Pro
385                 390                 395                 400
Leu Pro Gly Glu Pro Asp Val Glu Glu His Ser Glu Ile Leu Asn Val
                405                 410                 415
Leu Asn Pro Val Arg Gly Ala Ala Ala Tyr Trp Ala Ala Ala Gly Asn
            420                 425                 430
Phe Gly Ile Ala Pro Gly Gly Arg Phe Pro Pro Arg Ala Arg Gly Ile
        435                 440                 445
Phe Leu Glu Pro Phe Asn Arg Ser Ser Ser Ser Ser Ser Ser Ser Ser
    450                 455                 460
Ser Phe Ser Ser Gly Ser Glu Ile Pro Pro Pro Leu
465                 470                 475
```

<210> 24837
<211> 214
<212> PRT
<213> A.fumigatus

<400> 24837

```
Phe Arg Thr Lys Thr Lys Val Ala Ser Asn Arg Arg Ile Ser Arg Ala
1               5                   10                  15
Val Arg Leu Leu Arg Val Trp Arg His Leu Gln Glu Arg Ser Ser Leu
            20                  25                  30
Asp Arg Gly Ser Ser Gly Ser Leu Leu Val Gly Trp Gln Ser Gly Ser
        35                  40                  45
Ala Val Val Leu Gln Lys Arg Glu Ser Leu Gln Ser Trp Ser Gly Pro
    50                  55                  60
Lys Gln Asp Ser Asn Asn Gly Lys Glu Arg Ser Glu Ser Glu Met Asp
65                  70                  75                  80
Gly Arg Gly Gly Ile Gln Ser Gly Glu Asn Glu Val Pro Pro Val Phe
                85                  90                  95
Ser Leu Pro Leu Glu Lys Asn Gly Phe Asp Ser Ser Ser Ser Ser Asn
            100                 105                 110
Arg Pro Arg Gln Ser Ser Ala Arg Gly Asp Ala Thr Val Asp Val Val
```

```
        115                 120                 125
Ala Ala Ala Ala Ala Ala Ala Leu Ser Thr Ala Gly Pro Trp Glu Gly
    130                 135                 140
Ala Val Val Val Ala Ile Val Val Val Val Ala Ala Ala Ala Ala Ala
145                 150                 155                 160
Ala Val Val Ala Val Asp Val His Val Asp Val Ala Gly Ser Glu Ala
                165                 170                 175
Arg Ala Glu Gly Phe Leu Ala Ile Arg Ala Asp Ser Ala Ala Ala Ala
            180                 185                 190
Thr Arg Cys Ser Arg Ser Arg Val Leu Arg Leu Arg Ala Pro Leu Gly
        195                 200                 205
Leu Pro Gln Arg Glu Glu
    210
```

<210> 24838
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24838

```
Pro Ser Phe Pro Pro Pro Phe Ser Arg Pro Val Pro Ala Leu Ile Asp
1               5                   10                  15
Phe Pro Ser Phe Phe Ser Pro Pro Gln Asp Ala Arg Gly Leu Ala Phe
            20                  25                  30
Ser Ala Cys Ser Trp His Leu Asp His Phe Ser Ile Ile Leu Phe Pro
        35                  40                  45
Arg Arg Leu Ser Ser Thr Leu Pro Arg Gln Pro Glu Arg Gln
    50                  55                  60
```

<210> 24839
<211> 547
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (504),(518),(534)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24839

```
Thr Ile Trp Met Glu Gly Gly Phe Ser Lys Phe Phe Met Phe Leu Lys
1               5                   10                  15
Gln Asn Pro Arg Asp Pro Ser Ala Asp Lys Phe Arg Met Pro Cys Ala
            20                  25                  30
Met Met Leu Leu Tyr Ala Phe Glu Leu Met Leu Arg Asp Gly Leu Thr
        35                  40                  45
Ala Ala Thr Phe Lys Asp Ile Gln Glu Glu Ile Glu Ala Val Phe Glu
    50                  55                  60
Asp Gly Ser Asp Lys His Gln His Arg Ala Thr Ala Glu Ile Leu Gly
65                  70                  75                  80
Ala Leu Ile Ser Ser Val Ala Asp Thr Ser Val Glu Lys Arg Thr Leu
                85                  90                  95
Val Trp Glu Tyr Ala Phe Pro Ile Val Gln Arg Ile Phe Thr Asp Gly
            100                 105                 110
Leu Thr Pro Glu Asn Ser Gly Tyr Trp Thr Thr Phe Leu His Met Val
        115                 120                 125
```

Leu Gln Cys Arg Asp Pro Arg Arg Ala Trp Pro Leu Val Asp Trp Leu
130 135 140
Ala Ser Phe Arg Leu Asp Met Thr Thr Asn Ala Ala Phe Lys Glu Ser
145 150 155 160
Ser Lys Ile Asn Leu Leu His Gln Cys Ile Ile Asp Ala Gly Trp His
165 170 175
Phe Gln Leu Glu Lys Pro Ile Val Gln Asp Phe Leu Ala His Leu Asp
180 185 190
His Pro Tyr Lys Gly Val Arg Glu Ala Met Gly Gln Thr Leu Ala Thr
195 200 205
Ile Tyr Arg Thr Arg Tyr His Glu Ser Tyr Ala Asp Leu Gln Arg Leu
210 215 220
Leu Lys Ala Gln Glu Ser Ala Ser Pro Val Gly Ser Tyr Ala Tyr Leu
225 230 235 240
Pro Thr Glu Glu Phe Ser Lys Met Val Arg Asp Val Phe Ala Arg Ile
245 250 255
Glu Lys Trp Arg His Glu Arg Ser Pro Gly Gln Gln Thr Pro Ser Ser
260 265 270
Tyr Thr Ser Gly Ser Lys Thr Val Leu Leu Trp Leu Asp Ser Thr Leu
275 280 285
Ser Ser Tyr Glu Cys Thr Gln Leu Val Pro Phe Phe Pro Asp Val Phe
290 295 300
Thr Gly Gln Leu Leu His Met Met Asp Val Lys Glu Asp Pro Glu Leu
305 310 315 320
Gln Ser Leu Ala Tyr His Val Phe Arg His Leu Pro Asn Ile Pro Tyr
325 330 335
Pro Ala Glu Gln Asp Ser Gly Phe Ile Lys Ser Leu Ile Leu Ile Gly
340 345 350
Gln Thr Ser Pro Ser Trp His Gln Arg Leu Arg Val Met Ile Asn Ile
355 360 365
Gln Ile Ile Tyr Phe Arg Arg Leu Phe Leu Leu Ser Pro Ile Asp Arg
370 375 380
Asp Lys Leu Phe Asp Cys Val Ala Asn Met Leu Glu Asp Thr Gln His
385 390 395 400
Glu Val Arg Ala Gly Ala Ser Ala Thr Leu Ser Gly Met Ile Arg Cys
405 410 415
Ser Pro Val Ser Leu Arg Gln Arg Met Val Ser Arg Leu Gln Glu Arg
420 425 430
Phe Thr Arg Thr Leu Val Glu Asn Pro Leu Pro Lys Lys Pro Lys Asn
435 440 445
His Ala Arg Ser Ala Leu Ala Ser Pro Val Ser Ser Arg Ser Gly Thr
450 455 460
Pro Thr Pro Glu His Thr Arg Leu Ile Ile Val Arg His Gly Ala Val
465 470 475 480
Leu Gly Leu Gly Ala Leu Ile Gln Ala Phe Pro Tyr Asp Ser Pro Pro
485 490 495
Pro Arg Trp Met Pro Glu Ala Xaa Thr Thr Leu Ser Asn Arg Ala Ala
500 505 510
Ser Asp Pro Gly Ile Xaa Gly Ser Ser Val Lys Ser Ile Ile Ser Asp
515 520 525
Phe Lys Arg Thr Arg Xaa Asp Thr Trp His Ile Asp Ala Lys Val Ser
530 535 540
Asp Glu Arg
545

<210> 24840

<211> 95
<212> PRT
<213> A.fumigatus

<400> 24840
Val Leu Cys Thr Trp Leu Arg Trp Ser Thr Asn Pro Leu Thr His Trp
1 5 10 15
Leu Gly Ser Thr Ala Tyr Ser Leu Ser Ala Gly Gly Ser Leu Ile His
20 25 30
Pro Ser Ile Pro Gly Ile Leu Leu Thr Pro Ile Cys Pro His Thr Leu
35 40 45
Ser Phe Arg Pro Met Val Leu Ser Asp Ser Leu Leu Leu Arg Ile Ala
50 55 60
Val Pro Thr Gly Ser Arg Ser Ser Ala Tyr Cys Ser Phe Asp Gly Lys
65 70 75 80
Gly Arg Val Glu Leu Arg Gln Gly Asp Tyr Val Thr Val Glu Thr
85 90 95

<210> 24841
<211> 288
<212> PRT
<213> A.fumigatus

<400> 24841
Leu Val Leu Gln Ser Pro Cys Phe Phe His Arg Arg Phe Asp Asp Ala
1 5 10 15
Val Asn Ile Gln Lys Val Leu Glu Glu Ile Ser Asp Asp Glu Trp Leu
20 25 30
Ser His Ser Arg Leu Val Gln Thr Ala Thr Gly Val Arg Glu Val Ser
35 40 45
Lys Gln Leu Gln Arg Arg Pro Ile Lys Arg Ala Val Lys Asn Val Met
50 55 60
Ile Val Thr Lys Ala Arg Asp Asn Arg Leu Val Tyr Leu Thr Arg Glu
65 70 75 80
Leu Ala Glu Trp Leu Leu Ser Thr Pro Arg Tyr Gly Ser Asp Leu Gly
85 90 95
Val Asn Val Trp Val Asp Ser Lys Leu Arg Asn Ser Lys Arg Phe Asp
100 105 110
Ala Ala Gly Leu Leu Gln Ser Glu Pro Arg Phe Glu Gln Met Leu His
115 120 125
Tyr Trp Thr Pro Asp Leu Cys Trp Ala Ala Pro Glu Lys Phe Asp Leu
130 135 140
Val Leu Thr Leu Gly Gly Asp Gly Thr Val Leu Phe Thr Ser Trp Leu
145 150 155 160
Phe Gln Arg Ile Val Pro Pro Val Leu Cys Phe Ser Leu Gly Ser Leu
165 170 175
Gly Phe Leu Thr Asn Phe Glu Phe Glu Asn Tyr Lys Ser His Leu Asn
180 185 190
Asp Val Met Gly Asp Val Gly Met Arg Val Asn Leu Arg Met Arg Phe
195 200 205
Thr Cys Thr Val Phe Arg Lys Asp Arg Ser Lys Gly Ala Gln Ala Gly
210 215 220
Ala Val Glu Glu Gly Glu Gln Phe Glu Val Leu Asn Glu Leu Val Ile
225 230 235 240
Asp Arg Gly Pro Ser Pro Tyr Val Ser Asn Leu Glu Leu Tyr Ala Asp
245 250 255

```
Asn Asp Leu Leu Thr Val Val Gln Ala Asp Gly Cys Ile Phe Ser Thr
            260                 265                 270
Pro Thr Gly Lys Phe Ser Ala Leu Gly Ser Asp Gly Leu Gln Ile Arg
        275                 280                 285
```

<210> 24842
<211> 68
<212> PRT
<213> A.fumigatus

<400> 24842

```
Arg Cys Ile Leu Gly Leu Ser Cys Leu Phe Ile Gly Ile Arg Pro Leu
1               5                   10                  15
Pro Gln Phe Leu Lys Phe Leu Phe Pro Ala Glu Arg Ser Cys Glu Leu
            20                  25                  30
Ser His Thr Gly Ile Thr Ile Ala Gln Lys Lys Asp Ile Val Gly Thr
        35                  40                  45
Arg Pro His Thr Ser His Pro Phe His Val Asn Gln Tyr Ser Arg Asp
    50                  55                  60
Ser Leu Thr Thr
65
```

<210> 24843
<211> 141
<212> PRT
<213> A.fumigatus

<400> 24843

```
Asn Ser Asn Ala Leu Gln Arg Leu His Pro Lys Met Ala Asp Gly Lys
1               5                   10                  15
Leu Arg Gly Ala Ile Leu Val Val Ser Asp Thr Ala Ser Gln Asp Pro
            20                  25                  30
Ser Thr Asp Lys Val Gly Asp Thr Leu Thr Val Ser Phe Thr Ala Gly
        35                  40                  45
Gly Ser Asn Ser Trp Asp Pro Pro Val Ile Arg Ile Val Pro Asp Asn
    50                  55                  60
Val Leu Asp Ile Gln Arg Thr Ile Cys Asn Trp Thr Asp Gly Pro Asn
65                  70                  75                  80
Trp Phe Asn Leu Val Leu Ile Ser Gly Gly Thr Gly Phe Ala Val Lys
                85                  90                  95
Asp Asn Thr Pro Glu Val Cys Tyr Ala Ala Phe Gly Gly Pro Lys Arg
            100                 105                 110
Gln Thr Asp Asn Leu Tyr Arg Leu Cys His Leu Ser Ser Ile Ala Met
        115                 120                 125
Arg Leu Ala Leu Cys Lys Pro Thr Ala Lys Val Thr Tyr
    130                 135                 140
```

<210> 24844
<211> 241
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (225)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24844
His Arg Val Arg Leu Glu Gln Ser Phe Tyr Ser Val Gln Gln Leu Thr
1 5 10 15
Ile Pro Ser Val Ala Met Met Ser Arg Pro Val Ala Gly Val Arg Asn
20 25 30
Lys Ser Leu Leu Ile Thr Leu Pro Gly Ser Pro Lys Gly Ala Lys Glu
35 40 45
Asn Leu Glu Ala Ile Ile Lys Leu Leu Pro His Ala Cys Ala Gln Ala
50 55 60
Ala Gly Ala Asn Ser Arg Ala Leu His Ala Gly Gly Val Lys Lys Leu
65 70 75 80
Glu Ala Asp Ala Gly Ile Ala Ser Gln Ser Gln Ser Ser Gly Ser Lys
85 90 95
Val Gln Ser His Asp Gln His His His His His His His Asn His Gly
100 105 110
His Ser His Gly His Gly His Val Val Pro Arg Ala His Thr Ser Pro
115 120 125
Ser Gln Arg Pro Gln Ser Asn Asp Pro Asn Ala Gly Pro Asn Arg Arg
130 135 140
Tyr Arg Ser Ser Pro Tyr Pro Met Leu Ser Val Asp Asp Ala Leu Lys
145 150 155 160
Leu Ile Ser Gln Tyr Thr Pro Glu Pro Ala Val Ile Glu Val Pro Val
165 170 175
Thr Pro Ser Leu Val Gly Ser Val Ile Ala Glu Asp Val Tyr Ala Gly
180 185 190
Glu Ala Val Pro Ala Tyr Arg Ala Ser Ile Val Asp Gly Tyr Ala Val
195 200 205
Ile Ala Pro Asp Ser Pro Thr Ala Glu Tyr Ser Thr Arg Gly Ile Phe
210 215 220
Xaa Ser Gly Leu His His Pro Arg Glu Ser Arg Arg Asp Ala Val Ala
225 230 235 240
Pro

<210> 24845
<211> 72
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (65)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24845
Ala Gly Phe Lys Ser Lys Gln Pro Ala Ser Lys Ser Ala Gly Asp Lys
1 5 10 15
Lys Asn Gln Gly Asp Leu Ala Gly Gly Met Asn Asn Leu Ser Val His
20 25 30
Glu Lys Val Ala Val Lys Ser Lys Asn Leu Asp Val Leu Ser Glu Tyr
35 40 45
His Lys Ser Gln Arg Lys Arg Ala Met Asn Phe Ala Val Ile Gly Gln
50 55 60
Xaa Ser Ser Ser Thr Pro Gln Trp
65 70

<210> 24846
<211> 286
<212> PRT
<213> A.fumigatus

<400> 24846
His Thr Ala Lys Glu Leu Glu Thr Leu Pro Gln Ser Asp Gln Gln Gly
1 5 10 15
Ile Ala His Ala Trp Ser Ile Phe Ser Ala Ala Pro Ala Lys His Arg
20 25 30
Lys Leu Ile Leu Gln Gly Ile Met Ala Gln Cys Cys Phe Pro Gln Leu
35 40 45
Ser Phe Ile Ser Ala Thr Val Arg Asp Leu Ile Arg Ile Asp Phe Leu
50 55 60
Thr Ala Leu Pro Pro Glu Ile Ser Phe Lys Ile Leu Cys Tyr Leu Asp
65 70 75 80
Thr Thr Ser Leu Cys Lys Ala Ala Gln Val Ser Arg Arg Trp Arg Ala
85 90 95
Leu Ala Asp Asp Asp Val Val Trp His Arg Met Cys Glu Gln His Ile
100 105 110
His Arg Lys Cys Lys Lys Cys Gly Trp Gly Leu Pro Leu Leu Asp Arg
115 120 125
Lys Arg Leu Arg Glu Ser Lys Arg Glu Ile Glu Arg Arg Ala Ala Thr
130 135 140
Trp Asp Val Ser Lys Gln Pro Ala Gly Ile Glu Gly Ser Ser Ala Thr
145 150 155 160
Ile Glu Thr Ala Ala Ala Gly Ser Lys Arg Lys Pro Glu Ser Gly Lys
165 170 175
Glu Asp Thr Ala Met Val Lys Arg Gln Cys Thr Ser Ile Val Ser Gln
180 185 190
Ser Glu Gln Asn Glu Asp Tyr Phe Lys Thr Arg Tyr Arg Pro Trp Lys
195 200 205
Glu Val Tyr Lys Asp Arg Phe Lys Val Gly Thr Asn Trp Lys Tyr Gly
210 215 220
Arg Cys Ser Thr Arg Val Phe Lys Gly His Ser Asn Gly Ile Met Cys
225 230 235 240
Leu Gln Phe Glu Asp Asn Ile Leu Ala Thr Gly Ser Tyr Asp Ala Thr
245 250 255
Ile Lys Ile Trp Asp Thr Glu Thr Gly Glu Glu Leu Arg Thr Ile Lys
260 265 270
Gly His Gln Ser Gly Ile His Cys Leu Gln Phe Asp Asp Thr
275 280 285

<210> 24847
<211> 118
<212> PRT
<213> A.fumigatus

<400> 24847
Leu Ile Ser Gly Ser Met Asp His Thr Leu Lys Val Trp Asn Trp Arg
1 5 10 15
Thr Gly Glu Cys Ile Ser Thr Tyr Ser Asp His Arg Gly Gly Val Val
20 25 30
Gly Leu His Phe Asp Ala Thr Ile Val Ala Tyr Gly Ser Val Asp Lys
35 40 45

```
Thr Val Lys Ile Trp Asn Phe Glu Asp Lys Phe Thr Cys Leu Leu Ser
    50                  55                  60
Gly His Thr Asp Trp Val Asn Ala Val Arg Val Asp Ser Ala Ser Arg
65                  70                  75                  80
Thr Val Phe Ser Ala Ser Asp Asp Cys Thr Val Lys Leu Trp Asp Leu
                85                  90                  95
Asp Thr Lys Ser Cys Ile Arg Thr Phe His Ser Ser Pro Arg Gly Trp
            100                 105                 110
Lys Glu Pro Arg Thr Gly
        115
```

<210> 24848
<211> 65
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(13),(18),(20),(21),(27),(42),(63)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24848
Thr Ala Ile Xaa Gly Thr Gly Gly Lys Gly Leu Lys Xaa Gly Glu Lys
1 5 10 15
Pro Xaa Asn Xaa Xaa Leu Glu Ser Glu Tyr Xaa Ile Tyr Cys Phe Ser
 20 25 30
Ser Leu Lys Leu Met Ala Ser Trp Phe Xaa Leu Met Leu Thr Asn Ile
 35 40 45
His Phe Ser Thr Gly Ser Glu Lys Leu Leu Tyr Pro Phe Gly Xaa Leu
 50 55 60
Ile
65

<210> 24849
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24849
Leu Trp Cys Gln Cys Thr Gly Ser Arg Arg Leu Lys Leu Met Gly Ser
1 5 10 15
Tyr Leu Ala Ser His Val Lys Ile Cys Leu Val Val Ala Arg Asn Asn
 20 25 30
Thr Cys Arg His Trp Asn Met Val Ser Arg Gln Leu Ile Gly Ser Ser
 35 40 45
Lys Ile Ile Asp Val Gln Lys Ser Ala His Ile Asn Val Gly Gly Gly
 50 55 60
Gly Ile Phe Ala Asp Ala Ser Lys Arg Tyr
65 70

<210> 24850
<211> 288
<212> PRT
<213> A.fumigatus

<400> 24850

```
His Pro Ser Gln Val Ala His Leu Cys Ala Val Gln Arg Val Lys Gly
1               5                  10                  15
Gly Gly Glu Leu Ile Pro Glu Ala Ala Gly Ala Val Ser Thr Asp Met
            20                  25                  30
Pro Gly Val Ile Met Asp Asn Ala Thr Thr Gly Arg Pro Gly His Ala
        35                  40                  45
Pro Asp Thr Gln Thr Pro Ser Asn Gly Asp Asn Leu Arg Asn Gly Ser
    50                  55                  60
Phe His Ile Asn Gly Ala Ala Lys Gly Asp Lys Asp His Asp Pro Asp
65                  70                  75                  80
Lys Glu Ser Tyr Ala Gly Lys Pro Arg Ile Asp Gly His Arg Ala Leu
                85                  90                  95
Pro Glu Ile Pro His Ile Thr Gln Gly Phe Phe Pro Phe Ser Thr Leu
            100                 105                 110
Val Asn Arg Ser Val Gln Gln Cys Trp Asn Glu Leu Ser Asp Leu Ile
        115                 120                 125
Thr Glu Leu Ala Ala Ile His Val Ser Pro His Ser Ser Val Pro Leu
    130                 135                 140
Leu Pro Val Asn Gly Lys Ser Pro Gly Asn Gln Ser Pro Glu Asn Val
145                 150                 155                 160
Gln Lys Lys Leu Arg Ile Leu Asp Phe Ala His Ala Lys Arg Ala Glu
                165                 170                 175
Phe Ile Lys Leu Leu Val Leu Ser Gln Trp Ser Arg Arg Ala Arg Asp
            180                 185                 190
Val Ser Lys Leu Ile Asp Leu Gln Asn Phe Ile Arg Ala Arg His Gln
        195                 200                 205
Ala Phe Val Asp Ala Leu Gln Arg Val Gly Glu Met Lys Arg Asp Leu
    210                 215                 220
Val Gln Ala Gln Val Ala Asn Pro Asp Leu Gln Thr Ala Leu Glu Ile
225                 230                 235                 240
Leu Ser Lys Gly Arg Leu Glu Ser Leu Ala Asp Val Ser Leu Val Cys
                245                 250                 255
Thr His Glu Ala Gln His Leu Leu Thr Gln Ser Cys Leu Ala Arg Leu
            260                 265                 270
Gln Val Val Gln Thr Ser Asn Thr Glu Arg Ser Phe Glu Thr Val Ala
        275                 280                 285
```

<210> 24851
<211> 199
<212> PRT
<213> A.fumigatus

<400> 24851

```
Asn Trp Tyr Pro Ala Leu Trp Pro Ala Val Ser Lys Ala Ser Lys Ala
1               5                  10                  15
Ala Pro Val Thr Glu Val Ala Arg Glu Ser Ile Ser Val Ala Gln Asn
            20                  25                  30
Val Ala Ser Ser Met Thr Thr Ser Ser Glu Ser Leu Leu His Thr Pro
        35                  40                  45
Lys Gln His Arg Asn Pro Ser Leu Gln Leu Thr Lys Lys Lys Gly Ala
    50                  55                  60
Ser Thr Arg Ser Leu Pro Ala Asp Ala Thr Thr Thr Lys Val Asn Ile
65                  70                  75                  80
Thr Ser Asp Gly Ser Ala Ser Thr Ser Ala Leu Asp Ser Gln Phe Asp
                85                  90                  95
Thr Ala Gly Pro Ala Pro Asn Leu Ala Gln Lys Glu Gly Ser Ser Glu
```

```
            100                 105                 110
Glu Ala Ala Gly Ala Thr Asp Asp Lys Asn Gly Glu Gln Leu Lys Gln
        115                 120                 125
Thr Thr Asp Thr Ser Pro Ser Gly Ala Cys Thr Gly Val Val Glu Pro
    130                 135                 140
Gly Gln Ala Gln Ser Ser Ser Lys Pro Ala Ser Gly Trp Phe Ser Trp
145                 150                 155                 160
Phe Tyr Thr Ala Asn Ser Ala Glu Glu Ser Ser Ser Gly Ala Gln Ser
                165                 170                 175
Glu Arg Ala Arg Glu Thr Glu Ser Thr Pro Thr Glu Pro Ser Ala Glu
            180                 185                 190
Glu Pro Asp Ala Glu Glu Leu
        195
```

<210> 24852
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24852

```
Phe Trp Leu Pro Leu Gly Leu Pro Val Lys Ser Lys Ala Asp Lys Cys
1               5                   10                  15
Val Phe Leu Ile Arg Thr Arg Pro Gly Glu Arg Val Ala Lys Arg Arg
            20                  25                  30
Arg Cys Lys Ser Arg Ile Gly Ser Ser His Lys Ile Thr Gln Ala Glu
        35                  40                  45
Thr Ile Lys Trp Phe Lys Asn Arg Phe Asp Gly Ile Val Arg
    50                  55                  60
```

<210> 24853
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24853

```
Cys Ala Asn Pro Ser Ser Pro Val Val Lys Thr Pro Cys Gln Asp Ala
1               5                   10                  15
Lys Gly Ser Arg Phe Pro His Gln Pro Thr His Thr Leu Leu His Thr
            20                  25                  30
Phe Arg Thr Phe Asp Ser Ser Thr Gln Arg Val Asp Gln Ser Asn Ala
        35                  40                  45
Lys Ser Ser Arg His Gly Met Leu Pro Ala Phe Phe Tyr Lys Ser Pro
    50                  55                  60
Leu Gln Ser Arg Lys Lys Ser Phe Phe Phe
65                  70
```

<210> 24854
<211> 124
<212> PRT
<213> A.fumigatus

<400> 24854

```
Ser Ser Leu Phe Arg Cys Arg Trp Asp Asp Glu Glu Gly Gly Gly Asp
1               5                   10                  15
Gly Arg Ser Lys Lys Asn Ser Glu Arg Leu Gly Asn Ser Met Ala Asp
            20                  25                  30
```

```
Gly Thr Thr Phe Leu Gln Thr Ile Gly Lys Ala Arg Tyr Thr Val Arg
        35                  40                  45
Thr Phe Gly Ile Arg Arg Asn Glu Lys Ile Ala Val His Val Thr Val
    50                  55                  60
Arg Gly Pro Lys Ala Glu Glu Ile Leu Glu Arg Gly Leu Lys Val Lys
65                  70                  75                  80
Glu Tyr Glu Leu Arg Lys Lys Asn Phe Ser Glu Thr Gly Asn Phe Gly
                85                  90                  95
Phe Gly Ile Ser Glu His Ile Asp Leu Gly Ile Lys Tyr Asp Pro Gly
            100                 105                 110
Ile Gly Ile Tyr Gly Met Asp Phe Tyr Cys Cys Met
        115                 120
```

<210> 24855
<211> 66
<212> PRT
<213> A.fumigatus

<400> 24855

```
Tyr Ser Ala Thr His Asp Ile Asp Leu Pro Phe Phe Gln Ile Ser Arg
1               5                   10                  15
Ala Ile Met Leu Asn Glu Thr Val Thr Gly Lys Ala Val Asn Leu His
            20                  25                  30
Ser Asp Asp Arg Leu Arg Asp Ile Asp Met Pro Pro Met His Arg Ile
        35                  40                  45
Asn Ile Tyr Lys Thr Phe Leu Pro Gln Gly Pro Lys Glu Arg Glu Arg
    50                  55                  60
Gly Glu
65
```

<210> 24856
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24856

```
Thr Leu Val Met Pro Arg Ser Val Pro Val Thr His Gln His His Leu
1               5                   10                  15
Thr Leu Arg Glu Ser Tyr Ile Asp Trp Ile Tyr Asp Asn Leu Ile Pro
            20                  25                  30
Glu Thr Pro Asn Ala Tyr Thr Cys Tyr Leu Met His Ala Gln Ser Asp
        35                  40                  45
Met Gly Tyr Asp Ile Gly His Thr Ala Ile Gly Asn Asn Ile Gln Gln
    50                  55                  60
Pro Thr Ile Leu Thr Tyr Arg Phe Phe Lys Ser Ala Ala Gln Leu Cys
65                  70                  75                  80
```

<210> 24857
<211> 116
<212> PRT
<213> A.fumigatus

<400> 24857

```
Val Gly Asp Leu Arg Arg Glu Glu Pro Asp Ile Thr Phe Ala His Ile
1               5                   10                  15
Val Asp Glu Arg Phe Pro Ile Leu Ile Asp Gly Leu Thr Val Ser Asp
```

```
            20                  25                  30
Ile Asn Glu Lys Glu Gly Lys Thr Tyr Leu Asp Thr Thr Gly Ser Ile
        35                  40                  45
Glu Asp Lys Arg Pro Leu Arg Arg Asp Met Pro Met Gln Phe Pro Ile
    50                  55                  60
Arg Met Gly Leu Lys Ser His Val Asn Pro Gly His Gly Cys Cys Val
65                  70                  75                  80
Arg His Asp Val Arg Val Phe Leu Ser Ser Pro Ser Ser Pro Val Leu
                85                  90                  95
Ala Glu Ser Thr Tyr Lys Gln Arg Pro Ser Ser Arg Glu Tyr Lys Pro
            100                 105                 110
Thr Tyr Tyr Asp
        115
```

<210> 24858
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (114)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24858

```
Pro Ser Arg Gly Val Pro His Ser Ile Gln Ala Phe Asn Thr Gly Val
1               5                   10                  15
Glu Phe Leu Leu Val Phe Asp Asp Gly Ser Phe Ser Glu Asp Asn Thr
            20                  25                  30
Phe Leu Ala Ser Glu Val Phe Ala His Asn Pro Arg Glu Val Leu Ala
        35                  40                  45
Lys Asp Leu Gly Val Pro Ile Ala Ser Phe Glu Asn Leu Pro Glu Asp
    50                  55                  60
Glu Leu Tyr Ile Phe Pro Gly Thr Pro Ala Pro Lys Asp Ile Glu Ala
65                  70                  75                  80
Gln Asn Val Ser Thr Ala Ala Gly Ile Val Pro Arg Thr Gln Ser Tyr
                85                  90                  95
Ser Tyr His Phe Ser Glu Gln Pro Ala His Glu Val Ala Gly Gly Ser
            100                 105                 110
Val Xaa Ile Val Asp Pro Val Thr Phe Pro Ile Ala Ser Asn Phe Ser
        115                 120                 125
Ala Ala Val Val Thr Val Lys Pro
    130                 135
```

<210> 24859
<211> 204
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (27)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24859

```
Gln Lys Pro His Trp Arg Met Glu Gln Ile Phe Cys Gly Trp Arg Glu
```

```
1               5                   10                  15
Arg Leu Phe Val Gln Phe Ser Arg Pro Ala Xaa Ser Val Asp His Met
            20                  25                  30
Cys Phe Leu Leu Glu Glu Glu Asn Ala Leu Phe Asn Gly Asp Asn Val
        35                  40                  45
Leu Glu His Gly Ile Ser Val Ala Pro Asp Leu Gly Arg Tyr Met Glu
    50                  55                  60
Ser Leu Glu Leu Met Ala Lys Leu Gly Cys Val Ile Gly Tyr Pro Ala
65                  70                  75                  80
His Gly Ala Val Ile Asp Asp Leu Pro Ser Lys Leu Glu Glu Tyr Ile
                85                  90                  95
Arg His Lys Glu Met Arg Val Gln Gly Ile Leu Ser Val Leu Val Lys
            100                 105                 110
Glu Arg Glu Arg Val Glu Gly Glu Arg Gly Lys Glu Gly Arg Arg Lys
        115                 120                 125
Gly Gly Met Thr Leu His Glu Ile Ala Arg Ala Met Phe Gly Thr Val
    130                 135                 140
Pro Asp Glu Val Ile Asp Gln Ala Met Ala Pro Phe Leu Met Gln Ala
145                 150                 155                 160
Leu Trp Lys Leu Thr Glu Asp Gly Lys Val Gly Phe Glu Pro Gly Asp
                165                 170                 175
Pro Val Lys Arg Lys Trp Phe Ala Val Ala Arg Arg Lys Thr Arg Pro
            180                 185                 190
Ser Ile Arg Arg Gln His Gly Ser Val Thr Ser Arg
        195                 200
```

Sequence Listing Page 2 of 3

<210> 24860
<211> 178
<212> PRT
<213> A.fumigatus

<400> 24860

```
Pro Ala Gln Val Gln Ile Val Leu Lys Leu Gly Ser Val Arg Arg Ser
1               5                   10                  15
Arg Leu Ala Gly Val Ala Tyr Ser Ile Gly Pro Glu Trp Leu Pro Pro
            20                  25                  30
Arg Thr Ile Gln Arg Trp Pro Gly Lys Leu Ile Ser Glu Leu Ala Asn
        35                  40                  45
Lys Val Pro Thr Ala Ile Glu Tyr Glu Ser Pro Ser His Ser Val Lys
    50                  55                  60
Ser Trp Gly Phe Leu Cys Asn Thr Glu Asp Pro Ala Ser Asp Ile Lys
65                  70                  75                  80
Glu Tyr Phe Lys Leu His Leu Ala Pro Gly Ala His Gln Gly Gly Lys
                85                  90                  95
Ile Thr Arg Ala Glu Ala Gln Arg Trp Leu Gln Asp Tyr Ile Arg Cys
            100                 105                 110
Val Ser Gln His Val Thr Ala His Phe Arg Asp Thr Leu Pro Ser Phe
        115                 120                 125
Ala Ala Cys Lys Val Glu Trp Val Phe Ser Val Pro Thr Thr Trp Lys
    130                 135                 140
Asp Val Arg Met Val Glu Glu Thr Arg His Leu Leu Gln Arg Ala Ile
145                 150                 155                 160
Asn Met Ser Ser Pro Gly Ser Pro Val Phe Thr Thr Gly Pro Glu Gly
                165                 170                 175
Pro Ala
```

<210> 24861
<211> 510
<212> PRT
<213> A.fumigatus

<400> 24861
Met His Asp Gln Ile Lys Ile Lys Leu Ser Leu Val Ile Asp Ser Leu
1 5 10 15
Ser Lys Thr Phe Pro Asp Ser Ser Arg Ala Ser Ala Asp Leu Trp Lys
20 25 30
Phe Ala Lys Val His Asp Arg Arg Asn Tyr Gln Leu Ile Arg Phe Ala
35 40 45
Met Asn Val Thr Ser Asp Tyr Arg Thr Val Val Lys Ala Ile Arg Glu
50 55 60
Leu Ala Arg Arg Ile Gln Ser Ser Asn Asn Ser Ser Leu Leu Glu Thr
65 70 75 80
Phe Thr Pro Leu Leu Tyr Arg Ser Ser Ser Leu Ile Phe Asn Arg Ser
85 90 95
His Thr Pro Ala Ile Met Glu Leu Ser Arg Thr Asp Glu His Gly Leu
100 105 110
Ala Asn Pro Ala His Glu Ile Leu Arg Glu Ile Ser Ser Lys Asn Pro
115 120 125
Glu Val Leu Glu Ala Gln Val Gln Glu Met Cys Lys Asp Leu Glu Ser
130 135 140
Gln Ala Pro Lys Ala Thr Thr Thr Ala Ala Gly Gly Thr Glu Glu Ile
145 150 155 160
Leu Lys Ala Cys Ser Gly Phe Ala Arg Lys Leu Ala Asp Lys Leu Pro
165 170 175
Lys Glu Arg Lys Phe Leu Gln Ala Leu Arg Ser Tyr Ala Leu His Ser
180 185 190
Pro Ser Pro Arg Ala Ala Lys His Ala Val Ser Ile Leu Met Ala Val
195 200 205
Ala Asp Lys Lys Glu Met Tyr Ala Lys Asp Leu Ile Gln Ala Cys Val
210 215 220
Ser Lys Trp Lys Tyr Gly Ser Asp Arg Phe Leu Thr Lys Leu Ala Thr
225 230 235 240
Leu Ser Gln Leu Asn Leu Leu Ala Pro Ser Glu Ala Asp Glu Glu Ser
245 250 255
Asp Ala Ile Ile Ser Ile Ala Val Asn Gln Ile Leu Leu Thr Asn Arg
260 265 270
Ser Pro Glu Pro Asp Ala Gly Tyr Ser Trp Ser Asp Thr Val Asp Glu
275 280 285
Glu Thr Ala Ala Lys Glu Trp Ala Leu Lys Ile Ile Val Asn Arg Leu
290 295 300
Arg Ala Lys Lys Gly Ser Asp Gly Asp Asp Asp Phe Arg Ala His Ala
305 310 315 320
Val Pro Val Phe Glu Thr Leu Asn Lys Leu Val Ala Asn Glu Gly Glu
325 330 335
Leu Ser Lys Lys Lys Asp Thr Pro Ala Ala Gln Lys Ser Arg Leu Arg
340 345 350
Leu Leu Ala Ala Lys Ser Leu Val Lys Leu Cys Ala Thr Ile Ser Leu
355 360 365
Cys Asp Gln Leu Leu Arg Pro Leu Asp Phe Asn Ala Ile Ala Leu Val
370 375 380
Ala Gln Asp Pro Met Leu Pro Val Arg Ser Gly Phe Ile Ser Gln Leu

385 390 395 400
Lys Lys Arg Leu Val Gln Arg Ser His Leu Ser Tyr Arg Trp Tyr Ile
405 410 415
Val Pro Cys Leu Leu Ala Phe Glu Pro Asn Val Ser Leu Lys Asp Ser
420 425 430
Thr Leu Thr Trp Leu Arg Ser Arg Ala Ala Phe Phe Ser Gln Gln Val
435 440 445
Gln Ser Ser Gly Gln Lys Glu Thr Ile Met Glu Ser Ile Phe Ser Arg
450 455 460
Leu Leu Ser Leu Leu Ala Tyr His Pro Asp Tyr Pro Ser Ala Asp Leu
465 470 475 480
Asp Glu Ala Thr Gln Val Arg Asp Leu Thr Asp Phe Ala Arg Tyr Ile
485 490 495
Leu Val Phe Thr Thr Gly Leu Glu Gly Ser Ala Glu Glu Gln
500 505 510

<210> 24862
<211> 277
<212> PRT
<213> A.fumigatus

<400> 24862
Arg Gly Leu Pro Ser Arg Gly Glu Asp Thr Ala Ile Pro Ile Pro Gln
1 5 10 15
Thr Val Thr Asn Gly Ile Glu Leu Ser Arg Val Leu Gln Asn Ser Tyr
20 25 30
Thr Thr Ala Leu Ile Leu Glu Asp Asp Ala Asp Trp Asp Val Ala Leu
35 40 45
Lys Met Gln Leu Arg Glu Phe Ala Arg Gly Val Arg Leu Leu Asn Gly
50 55 60
Glu Glu Asn Ala Pro Lys Thr Ala Pro Tyr Gly Thr Asp Trp Asp Ile
65 70 75 80
Leu Trp Ile Gly Gly Cys Ala Ser Gly Pro Gly Ala Asn Glu Thr Thr
85 90 95
Phe Phe Ala Ile Pro Asp Asp Pro Thr Val Pro Ser Pro Asp Lys Arg
100 105 110
Asp Gly Trp Gly Gly Pro Leu Glu Thr Trp Lys Gln Gln Tyr Pro Asn
115 120 125
Leu Pro Ile Gly Thr Thr Arg Phe Leu Tyr Arg Ala Glu Met Gly Cys
130 135 140
Cys Thr Tyr Gly Tyr Ala Val Thr Arg Glu Gly Ala Lys Lys Ile Leu
145 150 155 160
Ala Ala Leu Ser Val Asp Arg Leu Asp Cys Ala Val Asp Asn Ala Met
165 170 175
Ser Asp Leu Cys Ala Gly Thr Asn Gly Arg Arg Gln Leu Lys Cys Phe
180 185 190
Ala Thr Phe Pro Asn Leu Ile Gly Thr Tyr Arg His Ala Gly Pro Ala
195 200 205
Ser Arg Asp Ser Asp Ile Asn Gly Gly Asp Asp Ala Ser Trp His Glu
210 215 220
Ala Gln Ala Trp Asn Met Val Tyr Ser Thr Arg Leu Asn Ile His Gln
225 230 235 240
Leu Val Ala Gly Glu Arg Gln Val Tyr Ser Gln His Glu Asn Glu Lys
245 250 255
Ser Gly Ala Ile Thr Glu Leu Asp Leu Ala Glu Ile His Tyr Pro Arg
260 265 270

Gly Val Leu Val Gly
275

<210> 24863
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24863
Ala Thr Pro Pro Lys Gln Leu Arg Gly Phe Gln Lys Leu Met Leu Gln
1 5 10 15
Pro Gly Gln Thr Gly Arg Ala Thr Phe Lys Leu Thr Arg Arg Asp Leu
20 25 30
Ser Tyr Trp Asp Val Gln Gln Gln Lys Trp Val Val Pro Ser Gly Thr
35 40 45
Phe Lys Val Tyr Val Gly Ser Ser Ser Arg Asp Ile Arg Glu Glu Gly
50 55 60
Ser Phe Arg Val Arg Arg Gly Trp
65 70

<210> 24864
<211> 192
<212> PRT
<213> A.fumigatus

<400> 24864
Tyr Lys Gln Phe Trp Leu Asn Pro Arg Gly Ala Ser Leu Gln Trp Leu
1 5 10 15
Gly Leu Leu Tyr Ala Ile Phe Ala Leu Ala Val Ser Ile Leu Asn Thr
20 25 30
Ile Glu Glu Pro Val Pro His Ser Leu Gly Asp His Gln Ala Ala Thr
35 40 45
Thr Arg Phe Arg Lys Arg Thr Val Gln Cys Leu Val Gln Ala Asn Tyr
50 55 60
Ile Thr Pro Gly Arg Tyr Lys Val Glu Ala Leu Phe Leu Tyr Thr Met
65 70 75 80
Gly Glu Phe Leu Thr Ser Cys Asp Ala Gln Ala Gly Val Ser Phe Met
85 90 95
Leu Gly Leu Thr Ile Arg Leu Ala Met Arg Met Gly Tyr His Arg Asp
100 105 110
Pro Arg Asn Phe Pro Lys Met Ser Ala Phe Glu Gly Glu Met Arg Arg
115 120 125
Arg Leu Trp Ala Val Val Ser Gln Leu Asp Thr Leu Ile Ser Phe Gln
130 135 140
Val Gly Leu Pro Arg Thr Ile Gln Ala Trp Gln His Asp Val Glu Leu
145 150 155 160
Pro Arg Asn Phe Arg Leu Met Lys Ile Thr Met Arg Ile Arg Lys Asn
165 170 175
Ser His Ser Leu Gly Gln Lys Leu Ser Ser Leu Arg Cys Ala Ile Pro
180 185 190

<210> 24865
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24865
Leu Val Ser Lys Phe Asp Leu Asp Glu Arg Leu Val Leu Leu Leu Asp
1 5 10 15
Leu Pro Gly Phe Ala Cys Phe Gly Tyr Ser Gly Phe Ser Trp Asp Arg
20 25 30
Ser Gly Asp Ser Glu Ala Glu Ala Ala Leu Phe Ser Lys Ser Ser Lys
35 40 45
Arg Arg Phe Ser Ile Leu Pro Val Ala Ser Gly Asp Cys Gln Asn Thr
50 55 60
Phe Ser Ala Pro Met Ser
65 70

<210> 24866
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24866
Ala Ser Val Asn Leu Ser Lys Pro Ser Trp Leu Tyr Thr Cys Tyr Cys
1 5 10 15
Ala Phe Glu Ile Ala Glu His Thr Phe Leu Phe Leu His Lys Met His
20 25 30
Arg Ser Ser Asn Asn Ser Tyr His Gln Ser Ser Ser Ser Arg Ser Ser
35 40 45
Ser Ala His Ser Ser Ser Ser Ala Phe Ser Pro Asn Ala Asn Pro Asn
50 55 60
Glu Asp Trp Thr Lys Ile Ser Asp Leu Ala Glu Arg Arg Arg Ile Gln
65 70 75 80
Asn Arg Ile Ala Gln Arg Asn Tyr Arg Lys Gln Leu Pro Tyr
85 90

<210> 24867
<211> 90
<212> PRT
<213> A.fumigatus

<400> 24867
Phe Leu Leu Gln Gln His Asp Asp Leu Leu Asn Ile Leu Ala Arg Asp
1 5 10 15
His Phe Gln Gly Asp Thr Glu Arg Phe Ala Pro Asn Ile Asn Val Arg
20 25 30
Ala Arg Lys Asn Pro Lys Asn Phe His Gly Lys Ile Ile Gln Asn Ala
35 40 45
Leu Ile Ala Thr Ser Lys Leu Ile Asn Ser Val Glu Tyr Asn Glu Leu
50 55 60
Asp Ile Val Val Gly Phe Leu Asp Ala Glu Phe Asp Gln Phe Ala Cys
65 70 75 80
Arg Ser Phe Tyr Gly His Trp Val Thr Gly
85 90

<210> 24868
<211> 129
<212> PRT
<213> A.fumigatus

<400> 24868

```
Val Pro Leu Asn Arg Ser Ser Ser Asn Leu Ser Tyr Arg Pro His Gly
1               5                  10                  15
His Ala Ser Asn Ile Ala Thr His Met Leu Glu Lys Arg Gln Phe Gly
            20                  25                  30
Ala Val Ala Ser Ile Phe Gln His Ser Glu Ser Leu Ile Pro Asp Ala
        35                  40                  45
Pro Glu Leu Ile Gln Thr Phe Leu Glu Ser Glu Thr Asp Ser Thr Cys
    50                  55                  60
Lys Arg Asn Ala Phe Ala Ala Leu Met Ser Ile Ser His Gln Lys Ala
65                  70                  75                  80
Leu Glu Tyr Leu Gly Thr Thr Phe Asp Ser Ile Pro Asn Thr Asp Glu
                85                  90                  95
Leu Leu Gln Leu Ala Glu Leu Glu Phe Ile Arg Lys Asp Ala Val Gln
            100                 105                 110
Asn Thr Gln Asn Lys Val Gly Leu Leu Ser Tyr Met His Tyr Thr Arg
        115                 120                 125
Arg
```

<210> 24869
<211> 149
<212> PRT
<213> A.fumigatus

<400> 24869

```
Lys Gly Lys Tyr Leu Arg Leu Ile Phe Asp Leu Leu Glu Ala Ser Thr
1               5                  10                  15
Ser Thr Val Val Tyr Glu Ala Ala Thr Ser Leu Thr Ala Leu Thr Ser
            20                  25                  30
Asn Pro Val Ala Val Lys Ala Ala Ala Gly Lys Leu Ile Glu Leu Cys
        35                  40                  45
Ile Lys Glu Ala Asp Asn Asn Val Lys Leu Ile Val Leu Asp Arg Val
    50                  55                  60
Asp Gln Leu Arg Ser Arg Asn Glu Gly Val Leu Asp Asp Leu Thr Met
65                  70                  75                  80
Glu Ile Leu Arg Val Leu Ser Ser Pro Asp Ile Asp Val Arg Arg Lys
                85                  90                  95
Ala Leu Gly Ile Ala Leu Glu Met Val Ser Ser Lys Asn Val Glu Glu
            100                 105                 110
Val Val Met Leu Leu Lys Lys Glu Leu Gly Lys Thr Val Asp Glu Gln
        115                 120                 125
Tyr Glu Lys Val Gly Ile Val Leu Val Cys Ser Lys Asn Arg Met Leu
    130                 135                 140
Thr Thr Tyr Thr Glu
145
```

<210> 24870
<211> 114
<212> PRT
<213> A.fumigatus

<400> 24870

```
Ser Thr Leu Arg Glu Thr Gly Ile Arg Asn Pro Leu Gly Ala Phe Pro
1               5                  10                  15
Asn Pro Asp Asn Ser Phe Pro Phe Cys Ala Pro Ala Met Val Asn Ser
            20                  25                  30
```

```
Pro Arg Thr Ser Gln His Pro Gln Trp Lys Thr Phe Arg Ala Asn Ile
        35                  40                  45
Phe Arg Val Cys Lys Val Ser Pro Val Glu Pro Glu Phe Ile Glu Pro
    50                  55                  60
Ile Leu Ser Ser Ala Arg Ser Cys Leu Glu His Arg His Ala Tyr Val
65                  70                  75                  80
Arg Lys Lys Ala Val Trp Gly Arg Gly Phe His Phe Pro Thr Leu Arg
                85                  90                  95
Val Ser Asn Pro Arg Arg Ala Arg Val Asp Ser Asn Ile Pro Arg Ile
            100                 105                 110
Arg Asp
```

<210> 24871
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24871

```
Gln Arg Thr Gln Asn Ser Glu Tyr Arg Gln Leu Leu Ile Gln Ser Ile
1               5                   10                  15
His His Cys Ala Ile Lys Phe Ser Glu Ile Ala Ala Ser Val Val Asp
            20                  25                  30
Leu Leu Met Asp Phe Ile Ala Asp Phe Asn Asn Asn Ser Ala Val Asp
        35                  40                  45
Val Ile Ser Phe Val Lys Glu Val Val Glu Lys Phe Pro Lys Leu Arg
    50                  55                  60
Ala Ser Ile Val Asp Arg Leu Val Ser Thr Leu Val Phe Thr Ala Gly
65                  70                  75                  80
Leu Lys Gly Thr Ala Val Gln Ile Asp
                85
```

<210> 24872
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24872

```
Ile Thr Lys Thr Glu Ser Leu Asn Ser Gly Phe Met His Pro Phe Ser
1               5                   10                  15
Ile Leu Thr Leu Gly Ile Phe Val Ala Gly Tyr Ile Thr Ala Arg Trp
            20                  25                  30
Asp Leu Val Thr Arg Leu Tyr Glu Leu Ala Ile Phe Ala Trp Asp His
        35                  40                  45
Gly Val Val Val Ser Ala Ser Gln Phe Ala Gln Pro Val Leu Arg Ala
    50                  55                  60
Phe Val Thr Ala Glu His Lys Thr Ala Asp Ala Lys Thr Ile Glu Leu
65                  70                  75                  80
Ile Thr Leu Val Arg Arg His Glu Gln Pro Lys Ala Phe Arg Cys Cys
                85                  90                  95
Gln Ser Phe Phe Ser Ser
            100
```

<210> 24873
<211> 317
<212> PRT

<213> A.fumigatus

<400> 24873

```
Arg Pro Arg Lys Gln Asp Arg Arg Gly Cys Glu Met Val Lys Pro Ser
1               5                  10                  15
Ser Gln Ile His Arg Ala Trp Trp Lys Glu Cys Ser Val Tyr Gln Ile
            20                  25                  30
Tyr Pro Ala Ser Phe Lys Asp Ser Asn Asp Asp Gly Ile Gly Asp Ile
        35                  40                  45
Pro Gly Ile Ile Ser Lys Leu Asp Tyr Ile Lys Asn Leu Gly Val Asp
    50                  55                  60
Ile Val Trp Leu Cys Pro Ser Tyr Lys Ser Pro Gln Val Asp Met Gly
65                  70                  75                  80
Tyr Asp Ile Ser Asp Tyr Tyr Ser Ile Ala Asp Glu Tyr Gly Thr Val
                85                  90                  95
Ala Asp Val Glu Lys Leu Ile Glu Glu Cys His Lys Arg Gly Met Lys
            100                 105                 110
Leu Leu Met Asp Leu Val Val Asn His Thr Ser Asp Gln His Glu Trp
        115                 120                 125
Phe Lys Lys Ser Arg Ser Ser Lys Asp Asn Pro Tyr Arg Asn Trp Tyr
    130                 135                 140
Ile Trp Lys Pro Pro Arg Tyr Asp Glu Gln Gly Lys Arg His Pro Pro
145                 150                 155                 160
Asn Asn Trp Ile Ser His Phe Gln Gly Met Leu Asp Trp Pro Lys Lys
                165                 170                 175
Leu Ser Gln Ile Leu Thr Glu Ala Gly Ser Ala Trp Gln Tyr Asp Glu
            180                 185                 190
Leu Thr Asp Glu Tyr Tyr Leu His Leu Tyr Ala Lys Glu Gln Pro Asp
        195                 200                 205
Leu Asn Trp Glu His Pro Pro Val Arg Glu Ala Val His Asp Ile Met
    210                 215                 220
Leu Phe Trp Leu Asp Lys Gly Ala Asp Gly Phe Arg Met Asp Val Ile
225                 230                 235                 240
Asn Phe Ile Ser Lys Glu Gln Ser Phe Ser Asp Ala Asp Val Lys Asp
                245                 250                 255
Pro Gln Ser Ile Trp Gln Trp Ala Asp Lys Tyr Tyr Ala Asn Gly Pro
            260                 265                 270
Arg Leu His Glu Phe Leu Gln Gly Leu Gly Gln Ile Leu Thr Asp Tyr
        275                 280                 285
His Pro Phe Ser Val Gly Glu Met Pro Phe Val Gln Asp Thr Glu Asp
    290                 295                 300
Val Leu Lys Ala Val Arg Phe Asp Arg His Glu Ile Asn
305                 310                 315
```

<210> 24874
<211> 138
<212> PRT
<213> A.fumigatus

<400> 24874

```
Ala Gly Ser Val Gly Val Val Phe Val Gly Pro Leu Pro Asp Thr Leu
1               5                  10                  15
Gly Ile Phe Asp Ile Gly Val Arg Glu Ala Leu Leu Leu Ala Asp Lys
            20                  25                  30
Val Asn His Val His Pro Lys Ser Val Arg Ser Phe Val Gln Pro Lys
        35                  40                  45
```

```
Gln His Asn Val Val Asp Cys Leu Ala His Arg Trp Val Leu Pro Val
    50                  55                  60
Glu Ile Arg Leu Phe Leu Gly Ile Gln Val Glu Val Val Phe Ile Arg
65                  70                  75                  80
Glu Leu Val Val Leu Pro Ser Ala Ser Cys Phe Cys Gln Tyr Leu Ala
                85                  90                  95
Glu Phe Leu Arg Pro Val Glu His Thr Leu Lys Met Arg Asp Pro Val
            100                 105                 110
Ile Trp Trp Met Thr Leu Ser Leu Leu Ile Val Pro Trp Arg Leu Pro
        115                 120                 125
Tyr Val Pro Val Ala Ile Arg Val Ile Leu
    130                 135
```

<210> 24875
<211> 202
<212> PRT
<213> A.fumigatus

<400> 24875

```
Ser Pro Arg Phe Arg Thr Ile Gln Phe Leu Leu Thr Thr Ile Met Ser
1               5                   10                  15
Ser Ile Ser Phe Phe Ser Glu Ser Tyr Arg Leu Trp Ile Gln Ser Asn
            20                  25                  30
Phe Trp Leu Met Met Val Ser Val Phe Gly Ala Leu Gly Phe Met Leu
        35                  40                  45
Val Met Tyr Trp Lys Arg Lys Ser Tyr Pro Ala Asn Leu Leu Phe Leu
    50                  55                  60
Ser Ala Phe Thr Leu Leu Glu Ala Tyr Ser Ile Ser Val Val Thr Ser
65                  70                  75                  80
Phe Tyr Asp Ala Arg Ile Val Ile Gln Ala Leu Ile Leu Ala Leu Gly
                85                  90                  95
Ile Phe Val Ala Leu Thr Leu Phe Ala Cys Gln Thr Lys Tyr Asp Phe
            100                 105                 110
Thr Asn Trp Met Pro Tyr Leu Phe Gly Ala Leu Trp Phe Leu Ile Leu
        115                 120                 125
Phe Gly Phe Met Ser Ala Phe Phe Pro Tyr Asn Ser Thr Ala Glu Leu
    130                 135                 140
Ile Tyr Gly Gly Leu Ala Ala Leu Ile Phe Ser Ala Tyr Ile Leu Val
145                 150                 155                 160
Asp Thr Gln Leu Val Met Arg His Tyr His Val Glu Glu Glu Ile Ala
                165                 170                 175
Ala Ala Ile Ser Leu Tyr Leu Asp Ile Leu Asn Leu Phe Leu Ala Ile
            180                 185                 190
Leu Arg Ile Leu Asn Asn Gln Asn Asn Gln
        195                 200
```

<210> 24876
<211> 293
<212> PRT
<213> A.fumigatus

<400> 24876

```
Leu Asn Ala Pro Ser Thr Arg Gly Glu Asp Pro Arg Ser Leu Tyr Glu
1               5                   10                  15
Thr His Gly Leu Cys Ser Ala His Phe Arg His Ala Leu Gln Asp Ala
            20                  25                  30
```

```
Ala Thr Arg Phe Asn Ala Leu Thr Pro Gly Ser Asp Ile Arg Ile Ala
        35                  40                  45
Val Thr Pro Tyr Asp Ile Arg Gly Gly His Tyr Pro Asp Phe Arg His
    50                  55                  60
Leu Arg Lys Thr Gln Thr Pro Leu Ser Glu His Ser Ile Asp Ala Ile
65                  70                  75                  80
Leu Ile Thr Gly Gly Ala Pro Gly Val Tyr Glu Ile Asp Lys Arg Pro
                85                  90                  95
Trp Met Gln Thr Leu Ala Lys Phe Leu Gln Thr Val Phe Arg Glu Tyr
            100                 105                 110
Pro Ala Val Arg Ile Met Gly Thr Cys Phe Gly His Gln Leu Ile Gly
        115                 120                 125
His Ala Leu Val Asp Ser Gly Ala Gly Asp Val Tyr Val Glu Lys Cys
    130                 135                 140
Pro Leu Gly Arg Glu Val Gly Ile His Thr Val Gln Leu Asn Arg Asp
145                 150                 155                 160
Phe Val Asp Ala Phe Pro Leu Ala Leu Gly His Leu Pro Asn Gly Gln
                165                 170                 175
Leu Lys Ile Gln Met Phe His Gly Asp Arg Val Met Val Lys Gly Gly
            180                 185                 190
Thr Glu Gly Val Leu Pro Glu Thr Ala Ala Val Ser Leu Pro Ala Pro
        195                 200                 205
Trp Val Asn Ile Gly Ser Thr Pro Leu Cys Pro Ile Gln Gly Met Tyr
    210                 215                 220
Tyr Pro Gly Arg Val Leu Ser Val Gln Gly His Tyr Glu Leu Asp Ala
225                 230                 235                 240
Cys Gly Met Gln Ser Met Cys Leu Glu Phe Ala Pro Leu Leu Gly Trp
                245                 250                 255
Thr Asp Ser Lys Leu Gly Leu Phe Leu Glu Gln Val Gly Asp Asp Tyr
            260                 265                 270
Asn Gly Arg Gln Asp Asp Ser Glu Ala Phe Ala Leu Ala Val Val Cys
        275                 280                 285
Phe Leu Ala Gly Glu
    290
```

<210> 24877
<211> 83
<212> PRT
<213> A.fumigatus

```
<400> 24877
Arg Phe Ile Leu Ile Ala Val Ile Leu Val Pro Phe Thr Leu Phe Gly
1               5                   10                  15
Thr Ser Tyr Val Tyr Ser Lys Pro Phe Phe Thr Gly Trp Val Val Val
            20                  25                  30
Ser Leu Ile Trp Ile Trp Ala Ser Val Ile Ile Cys Val Val Tyr Pro
        35                  40                  45
Val Val Glu Ser Ala Gly Ala Leu Gly Asp Ile Ser Arg Gly Leu Trp
    50                  55                  60
Met Asp Met Lys Ala Leu Thr Gly Val Lys Lys Gln Ser Leu Gln Thr
65                  70                  75                  80
Asn Ala Val
```

<210> 24878
<211> 62

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24878
His Pro Val Val Glu Ala Val Arg Leu Ser Arg Gly Ile Trp Arg His
1 5 10 15
Pro Leu Asn Phe Glu Asp Gln Ser Gly Tyr Arg Xaa Ser Arg Tyr Pro
20 25 30
Lys Pro Thr Cys Ser Thr Pro Thr Arg Pro Pro Met Cys Pro Asn Val
35 40 45
Ile Arg Asn Phe Ser Lys Gly Tyr Met Leu His Phe Asn Phe
50 55 60

<210> 24879
<211> 153
<212> PRT
<213> A.fumigatus

<400> 24879
Pro Asn Cys Ala Gln Asn Pro Asn Asp Lys Ser Ala Thr Lys Arg Ser
1 5 10 15
Leu Glu Tyr Trp Ile Glu Leu Ala Lys Leu Leu Glu Arg Gly Gly Ile
20 25 30
Asn Ala Leu Phe Leu Ala Asp Thr Phe Gly Gly His Asp Thr Tyr Gln
35 40 45
Gly Lys Leu Asp Glu Cys Ile Arg Arg Ala Ala Gln Trp Pro Val Thr
50 55 60
Asp Pro Ser Ile Val Cys Leu Cys Pro Ala Leu Lys His Ser Thr Leu
65 70 75 80
Leu Thr Leu Thr Ala Gln Pro Ile Ser Ala Met Ala Ala Val Thr Lys
85 90 95
His Leu Thr Phe Ala Ile Thr Ser Ser Thr Ser Ser Glu Ala Pro Phe
100 105 110
Leu Leu Ala Lys Arg Phe Ser Thr Leu Asp His Met Thr Gln Gly Arg
115 120 125
Phe Gly Trp Asn Ile Val Thr Ser Tyr Lys Lys Gly Gly Val Gln Gly
130 135 140
Tyr Arg Ala Gly Gln Val His Arg Ala
145 150

<210> 24880
<211> 118
<212> PRT
<213> A.fumigatus

<400> 24880
Gln Glu Cys Arg Cys Gly Arg His Met Val Arg His Trp Arg Arg Asn
1 5 10 15
Trp Ser Val Ala Asp Leu Val Arg Phe Glu Asn Thr Tyr Pro Gly Val
20 25 30
Arg Cys Asp Ile Pro Ala His Val Tyr Gln Ser Gly Phe Glu Pro Asn

```
        35                  40                  45
Thr Gln Trp Thr Glu Glu Phe Ala Gln Gly His Glu Ile Arg Glu Tyr
    50                  55                  60
Trp Gln Arg Val Ala Arg Lys Tyr Asp Val Tyr Lys Tyr Leu Arg Pro
65                  70                  75                  80
Arg Gln Lys Val Gln Lys Val Val Trp Arg Pro Glu Glu Ala Lys Trp
                85                  90                  95
Glu Val Thr Leu Gln Asp Leu Glu Ser Gly Lys Val Phe Ser Cys Tyr
            100                 105                 110
Ser Val Asn Lys His Asp
        115
```

<210> 24881
<211> 312
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (96)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24881

```
Val Tyr Glu Glu Lys Leu Asp Val Val Ile Asn Ala Ile Gly His Phe
1               5                   10                  15
Asn Ala Trp Lys Leu Pro Asp Tyr Glu Gly Ile Asn Asp Tyr Gln Gly
            20                  25                  30
Asp Leu Phe His Ser Ser Asn Trp Asn His Asn Val Glu Leu Lys Gly
        35                  40                  45
Lys Arg Val Ala Leu Ile Gly Asn Gly Ala Ser Gly Leu Gln Val Leu
    50                  55                  60
Pro Ser Ile Gln Pro Ile Ala Ala His Val Asp His Tyr Ala Arg Asn
65                  70                  75                  80
Arg Thr Trp Ile Ala Asp Ser Phe Gly Thr Thr Gly Val Arg Arg Xaa
                85                  90                  95
Glu Pro Asn Leu Phe Ser Pro Glu Gln Leu Glu Ser Phe Lys Asp Pro
            100                 105                 110
Glu Lys Tyr Leu Lys Tyr Arg Lys Ser Val Glu Gln Gly Tyr Phe Ser
        115                 120                 125
Arg Phe Gly Ala Ile Phe Lys Asp Ser Pro Glu Asn Lys Glu Leu Arg
    130                 135                 140
Glu Lys Trp Thr Thr Leu Met Leu Gln Arg Val Gly Asn Lys Pro Glu
145                 150                 155                 160
Leu Ala Asp Lys Ile Ile Pro Asp Phe Pro Pro Asn Cys Arg Arg Pro
                165                 170                 175
Thr Pro Gly Pro Gly Tyr Leu Glu Ala Leu Thr Lys Asp Asn Val Ser
            180                 185                 190
Tyr Ile Gln Thr Arg Ile Lys Lys Phe Thr Ser Lys Gly Ile Val Thr
        195                 200                 205
Glu Asp Gly Thr Glu Arg Glu Val Asp Val Val Ile Cys Ala Thr Gly
    210                 215                 220
Ala Asn Val Asp His Ala Pro Pro Phe Ser Ile Ile Ala Asn Gly Ile
225                 230                 235                 240
Asp Leu Lys Ser Ala Trp Lys Pro Asp Gly Leu Tyr Gly His Pro Tyr
                245                 250                 255
Asn Tyr Leu Gly Val Ala Thr Pro Gly Phe Pro Asn Leu Phe Trp Ile
```

```
            260                 265                 270
Gly Gly Pro His Ser Thr Gly His Ser Gly Ser Val Pro Asn Ser Ile
        275                 280                 285
Glu Asn Leu Val Thr Tyr Val Ala Lys Phe Val Arg Lys Ser Leu His
    290                 295                 300
Arg Arg Gly Arg Arg Asn Ser Ala
305                 310
```

<210> 24882
<211> 113
<212> PRT
<213> A.fumigatus

<400> 24882

```
Pro Ala Ala Trp Ala Ser Gly Lys Ser Ser Thr Asp Lys Arg Val Ile
1               5                   10                  15
Met Ser Thr Asn Gly Pro Ile Ala Thr Glu Met Pro Phe Gln Asn Gly
            20                  25                  30
Asn Leu Ala Asp Lys Asn Gly Ile Ile Ser Gln Val Lys Ser Val Glu
        35                  40                  45
Gly Asp Glu Pro His Pro Pro Val Arg Pro Ser Phe Glu Leu Glu Glu
    50                  55                  60
His Pro Ile Asp Glu Val Arg Gln Ile Lys Val Gly Val Ile Gly Ala
65                  70                  75                  80
Gly Leu Ser Gly Ile Thr Ala Gly Val Leu Leu Pro Ala Lys Leu Pro
                85                  90                  95
Gly Leu Asp Leu Arg Ile Tyr Asp Lys Asn Ala Asp Val Gly Gly Thr
            100                 105                 110
Trp
```

<210> 24883
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24883

```
Val Val Ser Ser Phe Tyr Ala Leu Arg Val Arg Ser Leu Glu Asn Glu
1               5                   10                  15
Cys Thr Leu Ser Leu Leu Leu Val His Phe Arg Phe Tyr Thr Asn Phe
            20                  25                  30
Val Cys Pro Ser Val Asp Arg Asp Val Ala Glu Arg Ser Ile Leu Ile
        35                  40                  45
Lys Asn Met Leu Glu Asp Leu Gly Glu Ser Asp Glu Ala Ile Pro Ile
    50                  55                  60
Pro Asn Val Ser Leu Ile Cys Thr Leu Phe Leu Leu Val Ser Val Phe
65                  70                  75                  80
Tyr Ser Asn Ser Ile Leu Leu His Arg Ser Thr Arg Trp Cys
                85                  90
```

<210> 24884
<211> 65
<212> PRT
<213> A.fumigatus

<400> 24884

```
Ser Phe His Ser Lys Leu Leu Leu Thr Pro Ala Ala Glu Ser Asp His
1               5                  10                  15
Asp Leu Asp Thr Lys Lys Ile Val Lys Met Thr Thr Val Thr Leu Thr
            20                  25                  30
Ser Ser Asp Gly Val Asp Ile Thr Val Gly Lys Leu Ser Arg Pro Ser
        35                  40                  45
Met Pro Phe Val Ser Gly Pro Trp Lys Met Asn Ala Leu Tyr Leu Tyr
    50                  55                  60
Phe
65
```

<210> 24885
<211> 78
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26),(49),(77)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24885

```
Ala Ala Asn Tyr Leu Asp Ile Lys Ala Leu Leu Asp Val Gly Cys Lys
1               5                  10                  15
Asn Cys Ala Asn Met Ile Lys Gly Lys Xaa Pro Glu Glu Ile Arg Lys
            20                  25                  30
Thr Phe Asn Ile Gln Asn Asp Phe Thr Pro Glu Glu Glu Asp Gln Ile
        35                  40                  45
Xaa Arg Glu Asn Glu Trp Ala Glu Glu Val Ser Phe Thr Ser Leu Thr
    50                  55                  60
Ala Ser Asn Gly Pro Ile Ala Asn Arg Ala Asp Pro Xaa Arg
65                  70                  75
```

<210> 24886
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24886

```
Leu Tyr Pro Ser Ser Gln Val Asn Glu Val Val Leu Lys Lys Val Ile
1               5                  10                  15
Glu Trp Cys Thr His His Lys Asn Asp Pro Pro Ser Thr Gly Asp Asp
            20                  25                  30
Asp Asp Ser Arg Arg Lys Thr Thr Asp Ile Asp Glu Trp Asp Gln Lys
        35                  40                  45
Phe Met Gln Val Asp Gln Glu Met Leu Phe Glu Ile Ile Leu Val Cys
    50                  55                  60
Thr Arg Leu Ser Thr Leu Pro Ala Glu Lys
65                  70
```

<210> 24887
<211> 104
<212> PRT
<213> A.fumigatus

<400> 24887

```
Tyr Val Ala Thr Thr Pro Pro Phe Ser Val Ala Leu Asn Gln Ser Ser
1               5                  10                  15
Cys Val Arg Pro Arg Gly Ala Phe Ala Cys Asn Thr Val Thr Met Val
            20                  25                  30
Gln Ile Ala Ser Ile Gly Ala Lys Gly Ala Gln Glu Lys Val Gln Ile
        35                  40                  45
Ala Gln Ala Glu Ala Pro Gln Phe Glu Lys Val Asp Trp Lys Arg Glu
    50                  55                  60
Pro His Leu Arg Lys Leu Tyr Met Leu Ser Ala Ala Leu Met Val Ala
65                  70                  75                  80
Ser Ala Thr Thr Gly Tyr Asp Gly Tyr Val Leu Cys Cys Gly Glu Arg
                85                  90                  95
Ser Ala Gly Leu Ile Ala Val Val
            100
```

<210> 24888
<211> 223
<212> PRT
<213> A.fumigatus

<400> 24888

```
Tyr Ala Cys Gln Tyr Phe Ala Asp Asp Gly Gln Leu Asp Pro Phe Leu
1               5                  10                  15
Leu Pro Gln Gly Glu Gly Glu Gln Leu Ala Gly Ser Pro Gly Gln His
            20                  25                  30
Val Gln Tyr Trp Cys His Ser Gln Leu Leu His Tyr Val Cys Ser Pro
        35                  40                  45
Val Ala Pro Trp Pro Leu Arg Gln Gly Asp Ser Lys Phe Leu Thr Ala
    50                  55                  60
Thr Ser Ser Pro Tyr Val Ala Asp His Leu Gly Arg Lys Ile Ala Ile
65                  70                  75                  80
Ile Thr Gly Cys Cys Phe Met Val Val Gly Gly Val Ile Gly Cys Ala
                85                  90                  95
Ser Asn Gly Tyr Asn Met Tyr Ile Ala Ser Arg Phe Ile Leu Gly Phe
            100                 105                 110
Gly Asn Gly Leu Ala Gln Met Cys Ser Pro Leu Leu Leu Val Glu Ile
        115                 120                 125
Val His Pro Gln His Arg Gly Pro Val Thr Thr Ile Tyr Asn Cys Leu
    130                 135                 140
Trp Asn Ala Gly Ala Leu Leu Val Ser Val Ile Gly Trp Gly Thr Ser
145                 150                 155                 160
Tyr Val Ala Ser Glu Trp Ser Trp Pro Ser Ile Thr Leu Leu Gln Ile
                165                 170                 175
Val Pro Ser Val Ile Gln Leu Met Phe Ile Tyr Cys Lys Ser Ser Ser
            180                 185                 190
Gly Thr Arg Val Val Pro Ile Val Met Ala Asn Arg Asn Gly Pro Gln
        195                 200                 205
Arg Ile Pro Glu Ser Ser Arg Phe Leu His Gln Gln Arg Thr Ala
    210                 215                 220
```

<210> 24889
<211> 176
<212> PRT
<213> A.fumigatus

<400> 24889

```
Val Val Asn Arg Ala Thr Glu Arg Val Lys Arg Tyr Ser Asn Trp Gly
1               5                  10                  15
Ile Leu Ser Phe Met Tyr Pro Thr Pro Asn Glu Val Asn Phe Cys Phe
            20                  25                  30
Arg Gln His Ile Leu Ser His Ala Pro His Thr Ser Ala Thr Pro Pro
        35                  40                  45
Lys His Thr Gln Gly Asn Gly Arg Leu Glu Arg Gln Thr Thr Val Ala
    50                  55                  60
Gly Arg Arg His His Pro Arg Pro Ala Ala Ser Leu Arg Cys Gln Arg
65                  70                  75                  80
Cys Thr His Pro Ser Ser Pro Thr Pro Thr Thr Ala Leu Pro Pro Arg
                85                  90                  95
Pro Gln Pro Pro Ala His Gln Thr Arg Asn Pro Arg Leu Gly Leu Thr
            100                 105                 110
Pro Ala Ser Pro Asp Pro Leu Pro Pro Gly Pro Pro Leu Arg Ser His
        115                 120                 125
Pro Lys Arg Cys Arg Arg Gly Leu Pro Lys Asp Asn Gly Thr Leu Arg
    130                 135                 140
Val Arg Pro Arg Asn Gly Asn Gln Lys Ser Pro Gly Arg Val Leu Arg
145                 150                 155                 160
Arg Asn Gln Gln Arg Gly Glu Gly Arg Thr Gly Ala Asp Pro Gly Gly
                165                 170                 175
```

<210> 24890
<211> 339
<212> PRT
<213> A.fumigatus

<400> 24890

```
Tyr Leu Pro Met Tyr Thr Val Pro Asp Gly Pro Glu Asp Lys Trp Ser
1               5                  10                  15
Ile Gly Leu Pro Asn Glu Ser Ser Ala Thr Pro Ile Gly Val Tyr Tyr
            20                  25                  30
Leu Ser Cys Thr Pro His Gln Thr Arg Ser Thr Phe Ala Ser Asp Asn
        35                  40                  45
Ile Tyr Tyr Pro Thr Leu Leu Thr Pro Leu Gln Pro His Gln Asn Thr
    50                  55                  60
Arg Lys Ala Met Ala Asp Ser Lys Asp Lys Leu Leu Ser Gln Val Asp
65                  70                  75                  80
Asp Ile Thr Pro Asp Pro Pro Pro Ala Tyr Asp Ala Ser Ala Ala Pro
                85                  90                  95
Thr Pro Arg Leu Pro Arg Pro Pro Pro Leu Ser Leu Pro Val Leu Asn
            100                 105                 110
His Leu Arg Thr Lys Arg Val Ile Leu Ala Ser Ala Ser Pro Arg Arg
        115                 120                 125
Arg Gln Ile Leu Ser Leu Leu Gly Leu Pro Phe Glu Val Ile Pro Ser
    130                 135                 140
Asp Ala Val Glu Asp Phe Pro Lys Thr Met Glu Pro Phe Glu Tyr Val
145                 150                 155                 160
Leu Ala Thr Ala Thr Lys Lys Ala Gln Ala Val Tyr Ser Ala Glu Ile
                165                 170                 175
Asn Asn Glu Glu Lys Gly Glu Pro Ala Leu Ile Leu Ala Ala Asp Thr
            180                 185                 190
Val Val Val Asp Asn Leu Ser Gly Ser Ile Leu Glu Lys Pro Arg Ser
        195                 200                 205
Glu Ala Gln His Ile Ala Met Leu Lys Met Leu Arg Asp Asn Arg Met
```

```
    210                 215                 220
His Lys Val Tyr Thr Ala Met Val Ala Met Ala Pro Leu Glu Ser Ala
225                 230                 235                 240
Arg Gln Pro Gly Tyr Ala Leu Glu Thr His Ile Glu Glu Thr Asp Val
                245                 250                 255
Val Phe Asp Arg Asp Val Thr Asp Asp Leu Ile Val Ala Tyr Val Arg
            260                 265                 270
Thr Arg Glu Gly Ala Asp Lys Ala Gly Gly Tyr Gly Leu Gln Gly Leu
        275                 280                 285
Gly Ser Ile Leu Val Glu Ser Ile Gln Gly Ser Trp Asp Asn Val Val
    290                 295                 300
Gly Leu Pro Leu Lys Ala Ala Leu Lys Leu Ile Glu Lys Val Met Ala
305                 310                 315                 320
Lys Ala Asp Asp Asp Asn Gly Asp Glu Met Leu Glu Gly Asp Glu Glu
                325                 330                 335
Glu Glu Glu
```

<210> 24891
<211> 134
<212> PRT
<213> A.fumigatus

<400> 24891

```
Ala Gln Asp Arg Ala Pro Asn Arg Phe Thr Pro Pro Leu Pro His His
1               5                   10                  15
Pro Pro Thr Phe Arg Pro His Tyr His His Pro Pro Trp Pro Ser Pro
            20                  25                  30
Ser Gln Ser Thr Ser Glu Pro Pro Ser Thr Ala Asn Pro Gln His Tyr
        35                  40                  45
Pro Ser Ser Pro Glu Tyr Ser Pro Gln Glu Leu Thr Pro Ala Pro Val
    50                  55                  60
Thr His Thr Pro Arg Pro Tyr Pro Pro Pro Pro Ser Ser Ala His Thr
65                  70                  75                  80
Pro Gln Ser Asp His Pro Ser His Pro Asp Gln Thr Pro His Pro Ser
                85                  90                  95
Pro Arg Cys Ala Ser Gln Ala His Thr Pro Ala Ala Ala Arg Ser Pro
            100                 105                 110
Ala Ala Pro Ser Pro Pro Ser Gln Cys Lys Pro Tyr Ala Cys Asp Tyr
        115                 120                 125
Arg Ala Ala Ser Ser Ala
    130
```

<210> 24892
<211> 249
<212> PRT
<213> A.fumigatus

<400> 24892

```
Gln Leu Arg Arg Asn His Arg Lys Met Ser Leu Asn Thr Val Thr Ser
1               5                   10                  15
Gly Leu Asn Gln Asp Leu Pro Thr Asp Ser Val Thr Lys Thr Ala Ser
            20                  25                  30
Gly Thr Val Asn Ser Thr Ala Asp His Ile Thr Asp Gln Thr Ile Pro
        35                  40                  45
Gly Glu Tyr Pro Ser Asp Asp Thr Asp Thr Glu Tyr Asp Lys Pro Ala
```

```
    50                  55                  60
Pro Asp Ile Ser Phe Ser Ser Ile Trp Ser Ala Ser Lys Thr Trp Leu
65                  70                  75                  80
Phe Ser Leu Phe Pro Asn Val Leu Asp Arg Phe Glu Asn Trp Ile Lys
                85                  90                  95
Ala Leu Val Ala Trp Val Leu Pro Pro Pro Arg Gln Ala Lys Met Tyr
            100                 105                 110
Glu Ala Ile Leu Asn Arg Pro Ile Ala Ser Ser Phe Ile Ile Cys Gln
        115                 120                 125
Leu Val Cys Cys Gly Val Pro Leu Leu Val Phe Leu Ala Gly Val Phe
    130                 135                 140
Leu Phe Ala Ala Val Ala Val Leu Leu Trp Ala Val Leu Ser Leu Leu
145                 150                 155                 160
Leu Ala Ala Pro Ile Leu Leu Val Ala Ser Met Met Gly Val Ser Leu
                165                 170                 175
Trp Gly Trp Gly Trp Val Leu Tyr Gly Leu Val Lys Phe Ile Asp Gln
            180                 185                 190
His Phe Leu Gly Gly Met Ile Thr Arg Phe Trp Leu Ala Asn Arg Gln
        195                 200                 205
Asp Gln Asp Gly Gly Asp Gly Pro Glu Gly Glu Gly Gln Lys Gly Glu
    210                 215                 220
Glu Asp Glu Met Thr Gly Lys Asp Asp Lys Ser Glu Lys Lys Arg Pro
225                 230                 235                 240
Lys Lys Leu Gln Val Lys Lys Asp Thr
                245
```

<210> 24893
<211> 184
<212> PRT
<213> A.fumigatus

<400> 24893

```
Arg Arg Ser Ala Ser Ser Ile Leu Leu His Leu Gln Phe Leu Arg Ser
1                   5                   10                  15
Leu Leu Leu Thr Leu Val Val Leu Pro Cys His Leu Ile Leu Leu Pro
            20                  25                  30
Leu Leu Ser Leu Thr Leu Arg Pro Ile Pro Ser Ile Leu Ile Leu Pro
        35                  40                  45
Ile Arg Gln Pro Lys Pro Ser Asn His Pro Pro Gln Glu Met Leu Ile
    50                  55                  60
Asn Lys Leu His Gln Pro Val Gln Asn Pro Ala Pro Ser Pro Lys Arg
65                  70                  75                  80
His Pro His His Thr Gly Asp Gln Gln Asn Arg Arg Arg Gln Lys Gln
                85                  90                  95
Arg Gln His Arg Pro Glu Gln His Arg Asn Arg Arg Lys Glu Glu His
            100                 105                 110
Thr Arg Gln Glu Asp Gln Gln Arg Asp Pro Thr Ala Asp Glu Leu Ala
        115                 120                 125
Asp Asp Glu Arg Gly Arg Asp Gly Pro Val Gln Asn Arg Phe Val His
    130                 135                 140
Phe Gly Leu Ser Arg Gly Arg Glu Asp Pro Gly Asp Gln Arg Leu Asp
145                 150                 155                 160
Pro Val Phe Glu Ala Val Glu Asn Val Gly Glu Lys Gly Glu Gln Pro
                165                 170                 175
Gly Leu Gly Gly Gly Pro Asp Gly
            180
```

<210> 24894
<211> 286
<212> PRT
<213> A.fumigatus

<400> 24894
Asn Ser Glu Asn Ala Leu Gln Leu Ile Thr Ile Leu Lys Lys Leu Cys
1 5 10 15
Asn Ser Leu Ser Leu Leu Ser Pro Lys Thr Gly Asp Glu Arg Pro Ser
20 25 30
Glu Thr Ile Thr Ala Leu Leu Ser Ser Leu Pro Pro Asn Leu Leu Arg
35 40 45
His Phe Thr Pro Ser Cys Ser Ala Lys Ile Arg Val Leu Asp Gln Leu
50 55 60
Leu His Asn Leu Arg Thr Ser Thr Ser Glu Lys Ile Val Leu Val Ser
65 70 75 80
Asn Tyr Thr Ser Thr Leu Asn Leu Leu Ala Asn Leu Leu Asn Ser Leu
85 90 95
Ser Leu Pro Phe Leu Arg Leu Asp Gly Ser Thr Pro Ala Gln Lys Arg
100 105 110
Gln Ala Leu Val Glu Asp Phe Asn Arg Leu Pro Pro Asn Arg Cys Phe
115 120 125
Ala Phe Leu Leu Ser Ala Lys Ala Gly Gly Thr Gly Leu Asn Leu Ile
130 135 140
Gly Ala Ser Arg Leu Val Leu Phe Asp Val Asp Trp Asn Pro Ala Thr
145 150 155 160
Asp Val Gln Ala Met Ala Arg Ile His Arg Asp Gly Gln Lys Arg His
165 170 175
Cys Arg Ile Tyr Arg Ile Leu Leu Lys Gly Ser Leu Glu Glu Lys Ile
180 185 190
Trp Gln Arg Gln Val Thr Lys Ile Gly Leu Ala Asp Ser Val Met Glu
195 200 205
His Lys Asn Ser Val Ala Gln Phe Ser Arg Asp Glu Leu Lys Asp Leu
210 215 220
Phe Arg Leu Asp Glu Ala Ser Arg Cys Gln Thr His Glu Leu Leu Gly
225 230 235 240
Cys Asp Cys Gly Gly Leu Gly Gln Met Ala Gly Pro Ser Ser Asn Asp
245 250 255
Thr Ser Ile Pro Ala Thr Asp Ala Glu Asp Ser Pro Ser Ser Asp Leu
260 265 270
Ser Asp Thr Asp His Glu Phe Pro Asp Ile Pro Thr Leu Ile
275 280 285

<210> 24895
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24895
Ile Leu Ser Thr Gly Gly Asn Val Glu Asn Met Ser Asp Pro Glu Pro
1 5 10 15
Ser Ala Ala Ala Cys Ser Ser Ser Pro Pro Thr Val Gln Thr Pro Glu
20 25 30
Ser Ala Thr Leu Asn Tyr Ala Phe Leu Val His Ser Gln Lys Thr Leu
35 40 45

```
Thr Gln Asn Leu Pro Pro Arg Val Asp Asn Lys Leu Leu Ala Arg Gln
    50                  55                  60
Lys Arg Arg Arg Thr Arg Tyr Ile
65                  70
```

<210> 24896
<211> 63
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (36)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24896

```
Thr Ser Arg Gln Val Met Arg Val Gln Cys Ser Thr Val Arg Asp Ala
1               5                   10                  15
Pro Pro Phe Ser Ile Glu Gln Gly Lys Thr Arg Lys Ser Val Gly Ile
            20                  25                  30
Asn Lys Val Xaa Asn Pro Met Trp Thr Ile Ser Ala Ile Ser Phe Ile
        35                  40                  45
Leu Ser Arg Arg Thr Arg Arg Asn Asp Asn Ile Leu Asn Ala Leu
    50                  55                  60
```

<210> 24897
<211> 446
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24897

```
Gln Asp Glu Arg Asn Cys Ala Asn Gly Pro His Arg Ile Xaa Tyr Leu
1               5                   10                  15
Val Asp Ala Asn Thr Phe Ala Ser Leu Ala Leu Leu Asn Arg Lys Trp
            20                  25                  30
Arg Arg Ile Ser Asp Cys Ala Ala Leu Tyr Ala His His Leu Ser Arg
        35                  40                  45
Cys Ser Ser Phe Ser Ala Thr Gly Glu Pro Ile Ser Ser Ala Ala Asn
    50                  55                  60
Pro Glu Asn Leu Ala Tyr Leu Lys Arg Arg Phe Leu Ser Glu Ile Arg
65                  70                  75                  80
Arg Asn Ala Phe Glu Val Phe Leu Arg Pro Arg Gln Thr Leu Ile Lys
                85                  90                  95
Leu Ile Ser Thr Ser Met Ser Ser Ser Thr Ala Phe Pro Gln Gly Glu
            100                 105                 110
Ala Phe Arg Phe Ala Phe Ser Pro Asn Ala Gln Met Ile Leu Cys Ile
        115                 120                 125
Ser Ser Ser Arg Ile Val Val Leu Asp Val Thr Ser Asp Ser Ala Ala
    130                 135                 140
Val Lys His Glu Leu Lys Ile Trp Arg Arg Pro Leu Asn Ala Thr Ile
145                 150                 155                 160
```

```
Leu Asp Asp Gly Ser Leu Leu Ala Val Val Ser Ser Asp His Gln Ile
                165                 170                 175
Asn Ile Tyr Ser Leu Thr Asn Glu Glu Ala Ser Leu Ile Gln Asp Leu
            180                 185                 190
Lys Leu Thr Glu Val Pro Arg Ala Leu Ala Leu Ser Pro Ser Gly Gly
        195                 200                 205
Val Leu Ala Val Ala Tyr Ser Asp Lys Ile Glu Met Tyr Ala Ile Arg
    210                 215                 220
Glu Gly Ala Leu Thr Thr Glu Arg Arg Ala Val Arg Cys Asp Gly Val
225                 230                 235                 240
Asp Ala Ile Ser Phe Ser Ser Glu Arg Val Met Leu Ile Gly Ser Ser
                245                 250                 255
Ser Pro Ser Ala Ser Ser Ser Leu Val Thr Ile Thr Val Pro Phe Tyr
            260                 265                 270
Thr Ala Pro Asp Thr Glu Ser Ser Pro Arg Glu Val Gln Val Arg Met
        275                 280                 285
Trp Thr Thr Gln Ile Leu Phe Pro Asp Leu Ile Ser Gly Tyr Ser His
    290                 295                 300
Ala Cys Leu Leu Pro Leu Arg Ala Glu Gly Glu Gly Ser Trp Ile Leu
305                 310                 315                 320
Gly Tyr Asp Arg Arg Ile Arg Ala Phe Arg Ala Phe Gly Val Thr Asn
                325                 330                 335
Ala Asn Ser Gly Thr Thr Tyr Phe Val Gly Pro Ile Ser Ala Asn Thr
            340                 345                 350
Leu Gln Glu Ala Leu Pro Thr Met Leu Pro Ser Ala Asp Gly Gln Gly
        355                 360                 365
Glu Leu Val Ala Leu Gly Phe Gln Asp Ser Gly Leu Trp Val Tyr Gly
    370                 375                 380
Val Pro Ser Gln Leu Asp Ile Ala Arg Ser Ala Gly Glu Thr Gln Ala
385                 390                 395                 400
Ser Pro Ser Pro Pro Gln Arg His Ser Met Arg Asn Leu Gly Thr Leu
                405                 410                 415
Pro His Asn Asn Ala Leu Arg Leu Glu Trp Thr Ile Asn Lys Pro Lys
            420                 425                 430
Thr Ile Val Ser Gly His Lys Met Ser Asp Leu Pro Gly Met
        435                 440                 445
```

<210> 24898
<211> 203
<212> PRT
<213> A.fumigatus

```
<400> 24898
Cys Arg Gly Phe Leu Arg Leu Gly Arg Ser Asp Pro Gly Asn Arg Leu
1               5                   10                  15
Ile Val Ser His Leu Trp Thr Leu Val Arg Arg Thr His Thr Leu Arg
            20                  25                  30
Thr Met Ile Leu Leu Gln Val Arg Trp Arg Asn Ile Leu Gly Leu Asp
        35                  40                  45
Lys Arg Gly Val Asp Pro Val Leu Ala Arg Gln Leu Phe Val Arg Ala
    50                  55                  60
Leu Leu His Asp Leu Ala Leu Gly His Asp His Asp Val Ile Cys Leu
65                  70                  75                  80
Ser Asp Cys Arg Glu Phe Val Gly Asp His Asp Gly Arg Ser Ile Leu
                85                  90                  95
His Gly Met Val Glu Ser Phe Leu His Gly Ser Leu Ser Val Trp Val
```

```
            100                 105                 110
Glu Arg Ala Gly Arg Leu Val Lys Glu Glu Asp Phe Arg Pro Arg Asn
        115                 120                 125
Asp Ala Ala Gly Asp Gly Asn Thr Leu Pro Leu Ala Thr Arg Lys Glu
    130                 135                 140
Thr Thr Ser Leu Pro Asp Ala Arg Val Val Pro Leu Arg Gln Val Leu
145                 150                 155                 160
Asp Glu Val Val Arg Lys Gly Glu Phe Arg Ser Leu Leu Asn Glu Leu
                165                 170                 175
His Leu Val Ile Met Arg Arg Gly Leu Pro Trp Gly Thr Thr Glu Ser
            180                 185                 190
Ile Gly Asp Ile Val Lys His Pro Gly Val Asp
        195                 200
```

<210> 24899
<211> 69
<212> PRT
<213> A.fumigatus

<400> 24899

```
Val Ile Asp Lys Ser Tyr Leu Arg Leu Asn Thr Leu Val Asn Ser Val
1               5                   10                  15
Ile Lys Gly Pro Ser Gly Ser Gly Lys Ser Thr Ile Ile Gly Leu Leu
            20                  25                  30
Glu Arg Trp Tyr Ser Pro Cys Ser Gly Ser Ile Ser Leu Asp Gly Lys
        35                  40                  45
Asp Ile Ser His Leu Asn Leu Lys Trp Leu Arg Thr Asn Val Arg Leu
    50                  55                  60
Val Gln Gln Ala Arg
65
```

<210> 24900
<211> 263
<212> PRT
<213> A.fumigatus

<400> 24900

```
Ala Ile Tyr Leu Thr Cys Pro Glu Gln Glu Pro Val Leu Ile Asn Ala
1               5                   10                  15
Arg Val Phe Asp Asn Ile Ala Asn Gly Leu Gly Gly Thr Pro Trp Glu
            20                  25                  30
Thr Ala Ser His Asp Asp Gln Met Lys Leu Val Gln Glu Ala Ala Lys
        35                  40                  45
Leu Ala Phe Ala His Asp Phe Ile Glu Asn Leu Pro Gln Gly Tyr His
    50                  55                  60
Thr Arg Ile Gly Glu Arg Gly Gly Leu Leu Ser Gly Gly Gln Arg Gln
65                  70                  75                  80
Arg Ile Ala Ile Ala Arg Ser Val Ile Ser Gly Pro Lys Ile Leu Leu
                85                  90                  95
Leu Asp Glu Ala Thr Ser Ala Leu Asp Pro His Ala Glu Ala Thr Val
            100                 105                 110
Gln Lys Ala Leu Asp His Ala Met Gln Asn Arg Thr Thr Ile Val Val
        115                 120                 125
Ala His Lys Leu Ala Thr Ile Arg Lys Ala Asp Asn Ile Val Val Met
    130                 135                 140
Ser Gln Gly Lys Ile Met Glu Gln Gly Thr His Glu Glu Leu Ala Arg
```

```
145                 150                 155                 160
Lys Asn Gly Ile Tyr Ala Ser Leu Val Lys Ala Gln Asp Ile Ala Pro
                165                 170                 175
Ala Asn Leu Glu Gln Asp His Gly Ser Glu Gly Met Ser Thr Ser Asp
            180                 185                 190
Glu Gly Pro Glu Met Gly Asp Asn Gln Ser Val Thr Arg Val Arg Thr
        195                 200                 205
Ala Glu Thr Gln Lys Pro Ala Ala Leu Arg Asp Arg Glu Asp His Ser
    210                 215                 220
Leu Tyr Lys Lys Ile Gly Ile Ile His Asn Ile Trp Asn Leu Leu Arg
225                 230                 235                 240
Gly Met Pro Glu Leu Trp Ile Trp Phe Ala Val Thr Met Ala Thr Cys
                245                 250                 255
Ile Gly Gly Gly Glu Tyr Leu
            260
```

<210> 24901
<211> 96
<212> PRT
<213> A.fumigatus

<400> 24901

```
Ser Arg Arg Ile Thr Pro Gly Glu Tyr Met Thr Asn Leu Leu Thr Thr
1               5                   10                  15
Met Ser Cys Ala Ala Ala Val Asn Pro Gly Gln Ala Leu Leu Leu Gly
            20                  25                  30
Asn Ile Leu Ser Val Phe Thr Ser Pro Asn Met Val Ala Arg Gly Asn
        35                  40                  45
Phe Ile Ala Leu Met Phe Phe Val Met Ser Leu Gly Ile Leu Val Ile
    50                  55                  60
Tyr Phe Ile Met Gly Trp Ser Thr Asn Thr Ile Ala Gln Val Arg Thr
65                  70                  75                  80
Phe Pro Pro Val Ser Pro Ala Asn Leu Tyr His Asp Thr Asp Gln Val
                85                  90                  95
```

<210> 24902
<211> 230
<212> PRT
<213> A.fumigatus

<400> 24902

```
Leu Cys Leu Leu Ile Ile Phe Leu Ala Arg Gln Met Thr Pro Phe Thr
1               5                   10                  15
Asn Asn Ala Arg Ser Asp Gly Leu Val Leu Arg His Trp Gln Arg Gln
            20                  25                  30
Ser Glu Ser Ala Lys Ala Pro Ala Leu Glu Gly Ala Ser Glu Met Glu
        35                  40                  45
Val Asp Gln Ala Lys Ala Gly Gly Gly Ala Ala Thr Pro Glu Lys Glu
    50                  55                  60
Tyr Pro Phe Ala Lys Tyr Asn Val Lys Pro Arg Val Pro Arg Arg Tyr
65                  70                  75                  80
Thr Asp Glu Glu Tyr Asn Arg His Leu Lys Ser Asp Asp Trp Ser Arg
                85                  90                  95
Gln Glu Thr Asp Tyr Leu Met Asp Leu Val Glu Glu Tyr Asp Leu Arg
            100                 105                 110
Trp Val Val Ile Ala Asp Arg Tyr Asp Phe Gln Pro Gln Pro Ile Asp
```

```
        115                 120                 125
Ala Glu Ala Asn Ala Thr Ala Leu Val Pro Ala Lys Gln Tyr Arg Thr
    130                 135                 140
Met Glu Gln Met Lys Ala Arg Tyr Tyr Phe Ile Ala Ala Ser Met Leu
145                 150                 155                 160
Ala Leu Glu His Pro Pro Ser Glu Met Ser Glu Ala Glu Phe Asp Leu
                165                 170                 175
His Glu Lys Met Met Lys Phe Asp Pro Asp Arg Glu Arg Ala Arg Lys
            180                 185                 190
Glu Leu Ala Ala Leu Gln Leu Asn Arg Thr Ala Asp Glu Val Arg Glu
        195                 200                 205
Glu Gly Ile Leu Leu Glu Glu Leu Lys Arg Ser Leu His His Gly Asp
    210                 215                 220
Gly Arg Pro Arg Leu Met
225                 230
```

<210> 24903
<211> 187
<212> PRT
<213> A.fumigatus

<400> 24903

```
Phe Cys Phe Leu Leu Thr Ala Ile Arg Gly Ser Tyr Gly Ile His Val
1               5                   10                  15
Leu Pro Cys Pro Glu Leu Arg Ile Asp His Trp Cys Cys Ser Ala Asn
            20                  25                  30
Gly Ser Asn Cys Cys Asp Asn Ala Phe Lys Leu Gln Met Gly Thr Leu
        35                  40                  45
Met Phe Ser Ser Thr Ser Ala Ala Pro Ser Ser Thr Thr Thr Ser Thr
    50                  55                  60
Ile Ala Thr Asp Thr Gly Thr Thr Ala Thr Thr Ala Thr Pro Thr Thr
65                  70                  75                  80
Thr Thr Pro Thr Pro Thr Thr Thr Thr Ala Ile Ile Thr Glu Pro Thr
                85                  90                  95
Thr Ser Arg Ala Ala Ser Gly Gly Ser Glu Arg Ser Asp Ser Lys Pro
            100                 105                 110
Leu Ile Val Gly Val Ser Thr Gly Val Gly Leu Gly Val Cys Leu Val
        115                 120                 125
Thr Leu Ile Gly Ala Leu Cys Leu Gln Arg Arg Arg Tyr Gln Arg Arg
    130                 135                 140
Leu Asn Glu Asn Gln His Phe Gly Val Thr Tyr Met Ser Ser Gly Gly
145                 150                 155                 160
Ile His Thr Arg Pro Ala Ala Ala Pro Ala Glu Leu Pro Ser Asn Gln
                165                 170                 175
Ala Pro Arg Val Phe Glu Met Gly Thr Gly Gly
            180                 185
```

<210> 24904
<211> 162
<212> PRT
<213> A.fumigatus

<400> 24904

```
Leu His Arg Leu Gln Thr Trp Leu His Pro Gln Gly Leu Gly Val Thr
1               5                   10                  15
Ile Pro Asp Gln Pro Val Gln Pro Pro Phe Arg Ala Asn Pro Ala Gly
```

```
            20                  25                  30
Leu Val Ser Ser Lys Arg Arg Leu Gly Arg Asp Val Lys Val Arg Val
        35                  40                  45
Asp Pro Asp Ala Pro Arg Leu Glu Leu Ile Gly Asp Ala Thr Arg Ser
    50                  55                  60
Arg His Ile Leu Ala Pro Tyr Gly Cys Pro Gln Pro Arg Val Gly Ala
65                  70                  75                  80
Ile Arg Pro Arg Asn Asp Ile Gly Leu Val Arg Pro Leu Glu His Arg
                85                  90                  95
Gln Asp Arg Gly Lys Arg Leu Phe Leu His Asp Pro Gly Arg Leu Gly
            100                 105                 110
Lys Val Ile Gln Gln Cys Pro Gly Gly Arg Thr Thr Pro Pro Ser Pro
        115                 120                 125
Gly Trp Cys Arg Arg Trp His Ser Ser Cys Leu Leu Arg Lys Gly Ser
    130                 135                 140
Ala Lys Asn Pro Trp Leu Cys Ser Tyr Cys Met Leu Phe Trp His Gly
145                 150                 155                 160
Pro Lys
```

<210> 24905
<211> 192
<212> PRT
<213> A.fumigatus

<400> 24905

```
Lys Leu His Gly Glu Val Leu Arg Arg Gly Phe Pro Gly Gly Ser Ser
1               5                   10                  15
Gly Gly Leu Gly Asp Ser Leu Lys Val Gly Gly Gly Thr Asp Pro Lys
            20                  25                  30
Val Leu Phe Gly Pro Val Pro Glu Gln His Ala Val Arg Thr Lys Pro
        35                  40                  45
Gly Ile Phe Gly Arg Ala Phe Pro Gln Lys Ala Gly Arg Met Pro Ser
    50                  55                  60
Ala Ala Pro Ser Gly Thr Arg Gly Gly Ser Ser Ser Pro Arg Thr Leu
65                  70                  75                  80
Leu Asp Asn Leu Pro Glu Ser Ala Arg Val Val Gln Glu Glu Pro Phe
                85                  90                  95
Ala Pro Ile Leu Pro Met Leu Lys Trp Ser Asp Glu Ala Asp Val Ile
            100                 105                 110
Ala Arg Pro Asn Gly Thr Asp Thr Gly Leu Gly Ala Ser Val Trp Ser
        115                 120                 125
Lys Asp Met Thr Arg Ala Arg Arg Ile Ala Asp Gln Leu Glu Ala Gly
    130                 135                 140
Ser Val Trp Ile Asn Ser His Phe Asp Val Ser Pro Lys Ala Pro Phe
145                 150                 155                 160
Gly Gly His Lys Thr Ser Gly Ile Gly Thr Glu Trp Gly Leu Asn Gly
                165                 170                 175
Leu Ile Gly Tyr Cys Asn Ser Gln Thr Leu Trp Val Lys Pro Ser Leu
            180                 185                 190
```

<210> 24906
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24906
Thr Val Arg Gln Thr Thr His Thr Ile Glu Val Lys Leu Pro Leu Pro
1 5 10 15
Leu Thr Asp Thr Ile Ser Ile Ser Lys Arg Thr Arg Pro Arg Arg Ala
20 25 30
Pro Leu Thr Ile Leu Asn Phe Cys Pro Gly Ile Leu Thr Asp Ser Pro
35 40 45
Thr Ser Leu Gln Pro Phe Ile Val Ser Leu Pro Phe Gly Thr Ala Cys
50 55 60
Leu Leu Arg Pro Thr Cys Thr Thr Phe Ala Arg Val
65 70 75

<210> 24907
<211> 170
<212> PRT
<213> A.fumigatus

<400> 24907
Asn Ala Gln Gln Leu Ala Ala Leu Gln Ala Gln Gln Gln Ala Ala Met
1 5 10 15
Ala Gly Arg Arg Ser Arg Pro Thr Ser Pro Gly Ile Ala Met Gln Gly
20 25 30
Gly Ala Leu Ala Ala Met Gly Phe Thr Ser Pro Gln Asn Asn Gly Phe
35 40 45
Leu Ala Ala Tyr Asp Pro Asn Asn Pro Leu Leu Gly Asn Gly Leu Gly
50 55 60
Ala Leu Gly Leu Ser Gln Phe Gly Leu Gly Gly His Glu Gly Tyr Leu
65 70 75 80
Ser Asp His Ser Glu Val Thr Arg Gly Arg Ser Pro Arg Gly Arg Arg
85 90 95
Gly Ser Ser Lys Pro Pro Glu Asp Pro Thr Asp Pro Asn Leu Leu Lys
100 105 110
Asp Ile Pro Ser Trp Leu Arg Ser Leu Arg Leu His Lys Tyr Thr Asp
115 120 125
Asn Leu Lys Asp Leu Lys Trp Thr Glu Leu Ile Glu Leu Asp Asp Lys
130 135 140
Ala Leu Glu Glu Arg Gly Val Asn Ala Leu Gly Ala Arg Asn Lys Met
145 150 155 160
Leu Lys Val Phe Leu Ala Gln Leu Val Asn
165 170

<210> 24908
<211> 147
<212> PRT
<213> A.fumigatus

<400> 24908
Thr Phe Glu Cys Trp Leu Thr Asn Pro Ala Ile Leu Leu Ala Gly Cys
1 5 10 15
Thr Ser Ser Asn Gly Leu Ser Ile Val Tyr Leu Val Ser Leu Gln Tyr
20 25 30
Thr Asn Thr Ser Thr Ser Val Pro Asp Asp Pro Val Leu Val Asn Pro
35 40 45
Gly Ile Ala Gly Lys Val Tyr Asn Val Ser His Arg Asn Ser Thr Ile
50 55 60
Tyr Glu Val Arg Ala Gly Tyr Met Gly Leu Cys Leu Thr Leu Ser Asn

65 70 75 80
Arg Ala Gln Leu Cys Ser Gly Ser Ala Ala Ala Leu Ala Arg Met Val
85 90 95
Gln Ala Glu Gly Ile Gln Gly Asn Asp Ala Gly Ala Ala Asp Pro Leu
100 105 110
Asn Leu Ile Trp Ile Ala Gln Asn Phe Lys Glu Lys Ile Val Phe Asp
115 120 125
Gly Leu Met Tyr Val Leu Tyr Ser Phe Pro Trp Leu Cys Leu Gly Gly
130 135 140
Gly Met Ile
145

<210> 24909
<211> 92
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (87),(91)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24909
Lys Lys Arg Ser Pro Asn Leu Val Lys Gly Gly Ala Val Phe Ala Phe
1 5 10 15
Ser Leu Val Phe Gln Thr Glu Thr Tyr Glu Pro Val Leu Leu Gln Arg
20 25 30
Arg Val Asp Gln Leu Arg Lys Glu Ala Gly Asp Met Thr Leu Arg Ser
35 40 45
Lys Leu Ala Pro Asn Ile Ser Ala Arg Asp Asn Phe Ile Arg Ser Ile
50 55 60
Val Arg Pro Thr Lys Met Leu Phe Leu Ser Pro Ile Val Ala Ile Phe
65 70 75 80
Val Phe Thr Gly Gly Ser Xaa Gly Ile Ser Xaa His
85 90

<210> 24910
<211> 295
<212> PRT
<213> A.fumigatus

<400> 24910
Arg Thr Asn Leu Tyr Asp Tyr Gln Phe Ser Leu Ser Trp Thr Phe Cys
1 5 10 15
Ala Val Ser Arg Arg Leu Thr Pro Pro His Leu Val Thr Tyr Pro Lys
20 25 30
Arg Pro Arg Leu Cys Ile Gln Ile Asn Thr Val Arg Lys Ser Leu Met
35 40 45
Asp Cys Arg Ala Ser Arg Ser Thr Gly Ala Ala Ala Met Ser Cys Glu
50 55 60
Lys Ser Ile Cys Pro Leu Asp Leu Glu Lys Asn Leu Val Val Gln Val
65 70 75 80
Glu Asn Pro Thr Ser Gly Cys Phe Val Thr Asp Tyr Val Thr Ser His
85 90 95
Val Val Asp Trp Asp Gly Pro Asp Asp Phe Ala Arg Pro Val Asn Trp
100 105 110

```
His Lys Lys Arg Lys Trp Leu Asn Val Thr Ser Val Ala Phe Leu Thr
        115                 120                 125
Phe Leu Thr Pro Leu Ala Ser Ser Met Val Ala Pro Ala Gly Gly Leu
    130                 135                 140
Val Ile Glu Thr Phe Asn Ile Thr Ser Glu Ser Leu Ala Ser Phe Val
145                 150                 155                 160
Val Ser Ile Tyr Leu Val Gly Phe Ala Val Gly Pro Leu Val Leu Gly
                165                 170                 175
Pro Leu Ser Glu Ile Tyr Gly Arg Leu Arg Ile Tyr Gln Ala Cys Asn
            180                 185                 190
Ala Val Phe Ile Val Trp Asn Val Ala Cys Ala Val Ala Pro Asn Val
        195                 200                 205
Gly Ser Leu Leu Ala Phe Arg Leu Phe Ala Gly Ile Ala Gly Ser Cys
    210                 215                 220
Pro Leu Thr Leu Gly Ala Gly Ser Ile Ala Asp Leu Phe Val Pro Glu
225                 230                 235                 240
Glu Arg Gly Ala Ala Met Ser Ile Tyr Ser Met Gly Pro Leu Met Gly
                245                 250                 255
Pro Val Val Gly Pro Ile Ala Gly Gly Tyr Leu Ala Glu Ala Ala Gly
            260                 265                 270
Trp Arg Trp Ile Phe Trp Val Ile Ser Met Ala Val Ser Ile Leu Ser
        275                 280                 285
Asp Ile Glu Glu Thr Val Pro
    290                 295
```

<210> 24911
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24911

```
Asn Arg Arg Asn Ala Asp Trp Val Glu Asn Gly Phe His Ala Gly Ala
1               5                   10                  15
Phe Gln Arg Ser Ser Leu Lys Tyr Met Leu Asn Tyr Ala Arg Val Tyr
            20                  25                  30
Val Leu Cys Ala Thr Ile Ala Arg Ile Gln Lys Arg Pro Ser Ser Glu
        35                  40                  45
Val Leu Ala Asp Pro Glu Ser Asp Ala Val Leu Gly Leu Trp Lys Ser
    50                  55                  60
Leu Val Glu Ile Ile Met Gly Gln Met Ala Trp Leu Val Asn Glu Ser
65                  70                  75                  80
Ala Tyr Arg Cys Gln Leu Thr Trp Ala
                85
```

<210> 24912
<211> 103
<212> PRT
<213> A.fumigatus

<400> 24912

```
Val Ser Asn Arg Ala Phe Phe Pro Leu Tyr Leu His Leu Tyr Val Val
1               5                   10                  15
Gln Phe Leu Leu Leu Pro Leu Leu Thr Arg Ser Pro Ser Asn Phe Leu
            20                  25                  30
Ala Thr Phe Leu Gly Asn Thr Leu Tyr Leu Ser Ala Leu Ile Tyr Tyr
        35                  40                  45
```

```
Thr Tyr Ile Thr Phe Leu Gly Tyr Asn Ala Leu Pro Phe Leu His Asn
    50                  55                  60
Thr Glu Leu Leu Leu Leu Pro Ile Leu Val Leu Ser Ile Leu Trp Leu
65                  70                  75                  80
Val Ser Leu Ile Ala Gly Trp Gly Val Val Met His Gly His Ser Val
                85                  90                  95
Glu Trp Leu Phe Trp Gly Val
            100
```

<210> 24913
<211> 60
<212> PRT
<213> A.fumigatus

<400> 24913

```
Ser Pro Gln Asn Gly Leu Ala Ile Ser Lys Tyr Met Ile Tyr Leu Gln
1               5                   10                  15
Arg Lys Thr His Thr Glu Gln Asn Ile Ile Ser Met Cys His Phe Met
            20                  25                  30
His Ile Met His Pro Asn His Gly Lys Met Asp Glu Asn Gln Lys Glu
        35                  40                  45
Pro Asn Asp Thr His Val His Gln Arg Pro Val Phe
    50                  55                  60
```

<210> 24914
<211> 74
<212> PRT
<213> A.fumigatus

<400> 24914

```
Asn Val Glu Leu Ala Arg Asn Tyr Pro Asn Phe Ser Gly Gly Pro Ala
1               5                   10                  15
Met Gly Phe Glu Leu Phe Thr Gln Pro Leu Gln Arg Arg Ala Glu Pro
            20                  25                  30
Ala Ala Gly Tyr Arg Gly Gly Lys Arg Lys Leu Gly Ser Thr His Cys
        35                  40                  45
Ile Asn Val Lys Phe Pro Gln Ala Phe Asp Phe Ser Ser Ile Gly Phe
    50                  55                  60
Met Val Gln Val Arg Gln Asn Cys Pro Pro
65                  70
```

<210> 24915
<211> 173
<212> PRT
<213> A.fumigatus

<400> 24915

```
Ala Leu Gln Ser Leu His Leu Leu Cys Tyr Asp Val Arg Leu Thr Leu
1               5                   10                  15
Val Tyr Val Gln His Glu Ser Gly Lys Glu Leu Lys Leu Leu His Phe
            20                  25                  30
Ile Tyr Glu Gln Pro Asp Ile Asp Glu Ile Arg Gly Asn Pro Gln Arg
        35                  40                  45
Val Leu Asp Leu Ile His Lys Phe Glu Glu Lys Tyr Arg Phe Met Asn
    50                  55                  60
Val Gly Ala Ala Lys Gly Lys Ile Val Thr Asp Leu Ile Ala Glu Leu
```

```
65                  70                  75                  80
Lys Pro His Thr Met Ile Glu Leu Gly Gly Tyr Val Gly Tyr Ser Ala
                85                  90                  95
Ile Leu Phe Gly Asp Ala Val Arg Arg Ala Gly Gly Lys Arg Tyr Phe
            100                 105                 110
Ser Leu Glu Leu Asn Pro Glu Tyr Ala Ala Ile Ala Asn Met Leu Ile
        115                 120                 125
Glu Leu Ala Gly Leu Arg Asp Phe Val Arg Ile Ile Val Gly Arg Ser
    130                 135                 140
Asp Lys Ser Leu His Lys Leu Phe Thr Ser Gly Glu Val Lys Gln Ile
145                 150                 155                 160
Glu Leu Met Phe Leu Asp His Tyr Lys Pro Ala Tyr Thr
                165                 170
```

<210> 24916
<211> 232
<212> PRT
<213> A.fumigatus

<400> 24916

```
Pro Arg Ser Arg Ala Leu Ser Phe Gln Pro Gly Leu Val Lys Thr Ile
1               5                   10                  15
Ala His Gly Ile Phe Gly Phe Ser His His Glu Glu Trp Gly Ala Gly
            20                  25                  30
Leu Ile Thr His Ile Gly Ser Ile Val Arg Leu Ala Met Arg Leu Gly
        35                  40                  45
Leu His Arg Asp Pro Ser His Phe Ser Asn Leu Ser Pro Phe Glu Gly
    50                  55                  60
Glu Met Arg Arg Arg Ile Trp Ser Thr Ile Asp Gln Ile Asp Cys Leu
65                  70                  75                  80
Ser Ser Phe His Leu Gly Ile Pro Thr Ala Val Arg Ser Glu Asp Ser
                85                  90                  95
Asp Thr Asn Ala Pro Arg Asn Leu Leu Asp Thr Asp Ile Glu Glu Gly
            100                 105                 110
Met Ser Glu Leu Pro Pro Pro Arg Pro Phe Ser Ala Ser Val Pro Ile
        115                 120                 125
Gly Tyr Leu Leu Thr Lys Leu Lys Leu Ser Arg Ala Met Arg Arg Val
    130                 135                 140
Val Glu Phe Leu Asn Ser Val Gln Arg Gln Pro Tyr Glu Arg Val Leu
145                 150                 155                 160
Gln Leu Asp Arg Asp Leu Ile Glu Ala Tyr Arg Ser Ile Pro Pro His
                165                 170                 175
Leu Gln Leu Asn Asn Trp His Asn Ala Pro Asn Glu Pro Ala Tyr Val
            180                 185                 190
Met Val Gln Lys Val Gln Leu Asp Thr Leu Tyr His Gln Ala Val Thr
        195                 200                 205
Ala Leu His Arg Lys Ile Ser Pro Arg Gly Pro Asp Glu Pro His Ile
    210                 215                 220
Cys Ser Leu Ser Ala Lys Lys His
225                 230
```

<210> 24917
<211> 237
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24917
Leu Gly Gly Thr Xaa Ala Val Ser Gly Arg Pro Gly Gly Glu Asp Arg
1 5 10 15
Cys Arg Pro Lys Ala Gln Met Asp Val Lys Asn Leu Ala Ala Leu Pro
20 25 30
Ser Lys Met Asp Gln Ala Phe Ala Lys Tyr Pro Asp Ile Asp Ala Val
35 40 45
Ile Ile Asn Ala Gly Ile Gln Arg Leu Leu Asp Phe Asn Thr Thr Asp
50 55 60
Val Ser Ala Ala Gln Tyr Pro Thr Thr Asp Ala Ile Thr Asp Glu Val
65 70 75 80
Thr Thr Asn Leu Thr Gly Pro Thr Val Leu Ala Arg Cys Ile Ile Glu
85 90 95
His Phe Lys Ala Ser Arg Pro Asn Gln Pro Cys Leu Leu Ala Leu Val
100 105 110
Thr Ser Gly Leu Ala Leu Val Pro Ala Thr Met Phe Pro Val Tyr Cys
115 120 125
Ala Thr Lys Ser Ala Leu His Ser Phe Thr Ala Leu Leu Arg Asn Gln
130 135 140
Leu Lys His Thr Ser Ile Ser Val Val Glu Ile Val Pro Pro Tyr Val
145 150 155 160
Glu Thr Glu Leu Asp Lys Asp His Val Asp Glu Val Ala Arg Arg Met
165 170 175
Gly Gly Thr Arg Pro Gln Ala Met Pro Val Lys Gln Tyr Val Asp Gln
180 185 190
Val Met Arg Gly Leu Glu Val Thr Asp Ala Asn Gly Lys Ile Gln Lys
195 200 205
Tyr Val Ala Asp Gly Leu Pro Arg Ala Ala Val Asp Ala Trp Val Thr
210 215 220
Ala Leu Ser Pro Met Ala Lys Leu Leu His Thr Glu Leu
225 230 235

<210> 24918
<211> 160
<212> PRT
<213> A.fumigatus

<400> 24918
Arg Gly Ile Arg Ala Ser Trp Arg Arg Arg Gln Val Ser Thr Lys Gly
1 5 10 15
Thr Asp Gly Cys Glu Glu Ser Cys Ser Thr Ala Gln Gln Asp Gly Pro
20 25 30
Ser Ile Cys Lys Ile Pro Arg His Arg Cys Ser Asp His Gln Arg Arg
35 40 45
His Pro Ala Ser Pro Gly Leu Gln His His Arg Cys Leu Cys Ser Ser
50 55 60
Val Pro Asn His Arg Arg His His Arg Arg Gly His Asn Gln Pro Asp
65 70 75 80
Arg Ala Asp Arg Pro Gly Thr Leu His His Arg Thr Leu Gln Ser Val
85 90 95
Ala Ala Glu Pro Thr Leu Pro Ser Gly Pro Cys Asp Phe Arg Ser Gly

```
            100                 105                 110
Ala Gly Pro Ser Asn His Val Pro Arg Val Leu Arg His Lys Ile Ser
        115                 120                 125
Ala Ala Phe Leu His Gly Ala Leu Glu Lys Pro Ala Gln Ala Tyr Val
    130                 135                 140
Tyr Gln Cys Gly Arg Asp Cys Ala Pro Val Arg Gly Asp Arg Ile Arg
145                 150                 155                 160
```

<210> 24919
<211> 63
<212> PRT
<213> A.fumigatus

<400> 24919

```
Phe Asn Ile Phe Ile Ser Thr Thr Ile Phe Leu Leu Gly Leu Asn Tyr
1               5                   10                  15
Ile Arg Ile Arg Ala Ile Val Asn Ile Phe Phe Ser Asp Leu Lys Thr
            20                  25                  30
Leu Val Tyr Ser Ser Leu Tyr Ile Lys Gly Ala Pro Leu Tyr Ile Ser
        35                  40                  45
Thr Val Asn Gly Tyr Thr Ile Ser Lys Lys Phe Tyr Ile Asn Tyr
    50                  55                  60
```

<210> 24920
<211> 233
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24920

```
Arg Gly Ser Phe Asp Pro Ser Trp Trp Xaa Thr Tyr Thr His Pro Ala
1               5                   10                  15
Ile Met Ser Arg Ser Arg Leu Pro Pro Thr Pro Ser Met Ser Gly Glu
            20                  25                  30
Phe Ile Ile Arg Glu Gln Pro Ser Val Asp Gly Ala Asp Ala Phe Ala
        35                  40                  45
Leu Pro Pro Ala Ala Leu Ser Pro Ala Arg Ser Ala Ser Ala Ser Arg
    50                  55                  60
Arg Pro Ser Lys Ser Asp Ser Ser Ser Tyr Phe Pro Ala Ser Pro Thr
65                  70                  75                  80
Ser Pro Glu Leu Thr Gly Val Gly Arg Asn Ala Asn Pro Pro Arg Gln
                85                  90                  95
Ala Gly Thr Lys Arg Leu Leu Glu Asp Phe Asp Leu Pro Pro Pro Pro
            100                 105                 110
Thr Arg Thr Arg Lys Ile Ile Gln Met Lys Pro Lys Thr Gln Thr Gln
        115                 120                 125
Ala Lys Pro Ala Thr Thr Asn Thr Lys Pro Ser Thr Lys Asp Asn Gly
    130                 135                 140
Lys Asn Gln Pro Ala Ser Asn Ala Asn Thr Ala Ala Ser Ala Asn Ser
145                 150                 155                 160
Lys Lys Lys Gln Pro Ser Ala Thr Ser Ala Ala Gly Arg Lys Ile Ala
                165                 170                 175
```

```
Arg Lys Thr Ala His Ser Leu Ile Glu Arg Arg Arg Arg Ser Lys Met
            180                 185                 190
Asn Glu Glu Phe Ala Thr Leu Lys Asp Met Ile Pro Ala Cys Arg Gly
        195                 200                 205
Gln Asp Met His Lys Leu Ser Ile Leu Gln Val Arg Ser Phe Leu Leu
    210                 215                 220
Ser Lys Leu Met Ala Ala Ser Asp Leu
225                 230
```

<210> 24921
<211> 405
<212> PRT
<213> A.fumigatus

<400> 24921

```
Leu Arg Leu Pro Cys Phe His Gly Asn Ser Gln Met Cys Leu Ala Phe
1               5                   10                  15
Leu Phe Cys Leu Phe His Ser Arg Ile Ser Ile Phe Ser Gly Pro Ser
            20                  25                  30
Asp Ile Thr Leu Lys Asp Glu Pro Thr Thr Lys Gly Asn His Pro Lys
        35                  40                  45
Val His Ser Leu Gly Gly Val Tyr Asp Val Ser Asp Ala Lys Val Val
    50                  55                  60
Gln Ala Ile Ile Ile Gly Ala Gly Pro Ala Gly Ile Leu Ala Ala Leu
65                  70                  75                  80
Arg Leu His Glu His Asn His Ile Ser Pro Thr Ile Tyr Glu Ile Arg
                85                  90                  95
Ser Glu Pro Ser Thr Leu Gly Gly Ala Ile Gly Ile Pro Ser Asn Gly
            100                 105                 110
Leu Arg Leu Leu His Arg Leu Gly Leu Trp Asp Ala Val Gln Gly Arg
        115                 120                 125
Gly Ala Glu Thr Ser Thr Leu Ser Leu His Gly Ile Lys Gly Gln Val
    130                 135                 140
Ile Gly Gln Met Asp Met Thr Ser Trp Ser Arg Gln Lys Thr Gly Phe
145                 150                 155                 160
Gly Tyr Leu Arg Ile Arg Arg Thr Asp Leu Met Asp Val Leu Tyr Glu
                165                 170                 175
Ala Ala Arg Arg Ala Asp Ile Pro Ile His Phe Gly Lys Arg Leu Thr
            180                 185                 190
His Ile Val Glu Asp Asp Gln Thr Val Thr Val Ala Phe Ser Asp Gly
        195                 200                 205
Ser Ser Asp His Ala Asp Leu Leu Leu Gly Ser Asp Gly Ile His Ser
    210                 215                 220
Thr Val Arg Ser Ile Tyr Val Asp Pro Ser Met Ala Pro Glu Tyr Ser
225                 230                 235                 240
Gly Ile Ser Asn Ala Tyr Ser Leu Val Pro Thr Ser Asp Leu Ala Ile
                245                 250                 255
Ala Ala Gly Ser Ile Ser Gly Leu Asn Ala Thr Leu Thr Thr Asp Gly
            260                 265                 270
Leu Leu Ala Val Leu Pro Cys Thr Pro Gly Gly Glu Leu Ile Tyr Trp
        275                 280                 285
Phe Phe Ser Arg Glu Leu Ala Met Pro Ala Ser Gly Asp Thr Arg Asp
    290                 295                 300
Gly Trp Glu Glu Arg Gly Lys Glu Gln Val Glu Ser Ile Lys Ser Thr
305                 310                 315                 320
Val Leu Asp Leu Ile Lys Glu Thr Glu Gly Ser Trp Gly Ser Thr Met
```

```
                325                 330                 335
Lys Glu Met Ile Lys His Thr Glu Thr Leu Gln Phe Phe Pro Val Tyr
            340                 345                 350
Arg Leu Pro Thr Asp Gly Lys Trp Trp Arg Gly Arg Cys Leu Leu Ile
        355                 360                 365
Gly Asp Ala Ala His Ala Met Gln Pro His Ala Ser Gln Gly Val Tyr
    370                 375                 380
His Gly Ala Gly Arg Tyr Ile Arg Val Leu Val Phe Tyr His Glu Gly
385                 390                 395                 400
Ala Arg His Pro Arg
                405
```

<210> 24922
<211> 211
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (196)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24922

```
Arg Tyr Thr Ser Ile Ser Cys Tyr Gln Ser Pro Val Trp Leu Gln Pro
1               5                   10                  15
Leu Pro Gln Gln Ala Val Glu Ser His Cys Pro Met Ile Arg Val Pro
            20                  25                  30
Lys Glu Ser Ile Gln Arg Thr Ser Pro His Gln Met Thr Leu Phe Gly
        35                  40                  45
Pro Ile Ser Ser Thr Phe Arg Arg Thr Met Thr Arg Ile Glu Gln Ser
    50                  55                  60
Arg Leu Leu Ser Leu Phe Met Gly Gly Gln Lys Pro Arg Lys Val Arg
65                  70                  75                  80
Ser Ser Phe Arg Asn Ser Ala Met Lys Arg Gly Ile Arg Met Leu Leu
                85                  90                  95
Arg Phe Ile Pro Arg Gly Leu Met Tyr Val Ser Arg Thr Arg Pro Lys
            100                 105                 110
Arg Ser Leu Ser Met Tyr Thr Gln Asn Gln Trp Gln Gly Asp Pro Asp
        115                 120                 125
Ser Ser Gly Val Asp Asp Val Ala Phe Thr Met Glu Met Leu Asp Asn
    130                 135                 140
Phe Glu Lys Arg Tyr Cys Ile Asp Ser Ser Arg Val Tyr Ala Ala Gly
145                 150                 155                 160
Lys Ser Asn Gly Gly Gly Phe Thr Asn Leu Leu Thr Cys Asp Pro Thr
                165                 170                 175
Ala Phe Lys Ser Ile Asp Tyr Cys Gly Ile Cys Pro Arg Phe Gly Cys
            180                 185                 190
Leu Leu Pro Xaa Arg Thr Arg Gly Arg Leu Gln Ser Arg Gln Gly Ala
        195                 200                 205
Asp Gln Leu
    210
```

<210> 24923
<211> 165
<212> PRT
<213> A.fumigatus

<400> 24923
Ser Ser Ser Ser Ile Ser Val Ala Leu Val Gln Leu Arg Ser Ser Thr
1 5 10 15
Ser Gly Asn Gly Val Ser Asp Ile Asp Ile Ile Met Ala Ser Leu Ser
20 25 30
Arg Thr Leu Arg Pro Phe Ala Pro Arg Arg Val Arg Trp Gly Ser Pro
35 40 45
Leu Ser Pro Val Ile Pro Arg Arg Phe Leu Gly Ile Pro Pro Gln Phe
50 55 60
Leu Leu Asp Glu Tyr Ile Pro Arg Tyr Gln Leu Leu Ser Ser Val Asp
65 70 75 80
Ala Ala Lys Lys Arg Ser Leu Ala Tyr Ala His Leu Gln Asn Cys Asn
85 90 95
Leu Cys Pro Arg His Cys Gly Val Asn Arg Tyr Glu Glu Thr Gly Val
100 105 110
Cys Leu Ile Gly Ala Glu Thr Ala Lys Val Asn Val Ile Ala Pro His
115 120 125
Arg Gly Glu Glu Pro Cys Ile Gln Gly Tyr His Gly Ser Gly Ser Val
130 135 140
Phe Phe Ser Gly Cys Asn Leu Arg Cys Val Phe Cys Gln Asn His Val
145 150 155 160
Arg Ser Arg Glu Gly
165

<210> 24924
<211> 86
<212> PRT
<213> A.fumigatus

<400> 24924
Asp Ile Ala His Gln Arg Asn Gly Phe Asp Leu Thr Pro Glu Glu Leu
1 5 10 15
Ala Glu Trp Tyr Val Lys Leu Gln Gln Val Gly Asn Val His Asn Ile
20 25 30
Asn Leu Val Thr Pro Glu His Val Val Pro Gln Val Ala Leu Ser Ile
35 40 45
Leu Ala Ala Arg Asp Met Gly Leu Lys Ile Pro Ile Ile Tyr Asn Thr
50 55 60
Ser Ser Phe Asp Ser Leu Ala Ser Leu Gln Leu Leu Asp Arg Val Pro
65 70 75 80
His Ala Gly Asp Ser Arg
85

<210> 24925
<211> 204
<212> PRT
<213> A.fumigatus

<400> 24925
Arg Leu Lys His Ser Ile Gln Leu Val Ser Phe Ile Lys Asn Ser Pro
1 5 10 15
Leu Glu Lys Leu Arg Ser Ile Asn Ala Asn Ser Pro Val Val Val Arg
20 25 30
Gly Ile Val Gln Pro Lys Lys Thr Lys Gly Ser Asp Thr Glu Gln Ser
35 40 45

```
Asp Cys Trp Glu Val His Ile Ala Asp Ile Asp Pro Leu Asn Glu Phe
    50                  55                  60
Pro Lys Asp Ile Ile Met Thr Pro Gly Thr Ala Phe Ala Pro Glu His
65                  70                  75                  80
Arg Tyr Leu Gln Leu Arg Ser Asp Ser Glu Leu Arg Asp Ala Leu Arg
                85                  90                  95
Phe Arg Ala Gln Val Arg Asn Ile Cys Arg Glu Glu Leu Glu Gln Cys
            100                 105                 110
Arg Pro Pro Phe Val Glu Ile Glu Thr Pro Leu Leu Phe Lys Ser Thr
        115                 120                 125
Pro Glu Gly Ala Arg Glu Phe Leu Val Pro Thr Arg Arg Arg Gly Leu
    130                 135                 140
Ala Tyr Ala Leu Pro Gln Ser Pro Gln Gln Tyr Lys Gln Ile Leu Met
145                 150                 155                 160
Ala Ser Gly Ile Pro Arg Tyr Tyr Gln Phe Ala Arg Cys Phe Arg Asp
                165                 170                 175
Glu Asp Leu Arg Ala Asp Arg Gln Pro Glu Phe Thr Gln Val Ser Ile
            180                 185                 190
Glu Thr Arg Cys Pro Leu Leu Asn Cys Asp Leu Thr
        195                 200
```

<210> 24926
<211> 100
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (92)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24926

```
His Lys Leu Phe Ala Gln Leu Asp Leu Glu Met Ser Phe Ala Thr Gly
1               5                   10                  15
Glu Asp Val Met Arg Thr Val Glu Gly Ile Ile Arg Arg Leu Trp Ser
            20                  25                  30
Ser Leu Met Lys Asp Glu Ala Pro Ser Gly Pro Phe Arg Arg Met Ala
        35                  40                  45
Tyr Gln Asp Ala Met Ser Arg Tyr Gly Ser Asp Lys Pro Asp Thr Arg
    50                  55                  60
Tyr Gly Met Glu Ile Phe Lys Ile Asp Tyr Leu Leu Pro Val Asp Leu
65                  70                  75                  80
Val Asn Lys Ile Gly Pro Leu Thr Val Phe Ser Xaa Lys Gly Glu Glu
                85                  90                  95
Ser Glu His Gly
            100
```

<210> 24927
<211> 228
<212> PRT
<213> A.fumigatus

<400> 24927

```
Gln Pro Phe Asn Cys Phe Ile Ala Ile Trp Ile Val Ser Pro Lys Arg
1               5                   10                  15
Ile Val Thr Ser Ser Glu His Leu Phe Tyr Cys Leu Ala Gln Thr Thr
```

```
            20                  25                  30
Val His Ile Ala Glu Pro Lys His Ser Ala Ile Leu Gln His Asn Pro
        35                  40                  45
Asp Ala Phe Ala Ile Ala Asn Ala Leu Asp Leu Glu Arg Ala Arg Gly
    50                  55                  60
Arg Val Arg Gly Pro Leu His Gly Ile Pro Phe Thr Val Lys Asp Asn
65                  70                  75                  80
Ile Ala Thr Lys Asp Arg Met Glu Thr Thr Ala Gly Ser Trp Ala Leu
                85                  90                  95
Leu Gly Ser Val Ala Pro Arg Asp Ala Phe Val Val Arg Arg Leu Arg
            100                 105                 110
Glu Ala Gly Ala Leu Leu Leu Gly Lys Ala Ala Leu Ser Glu Trp Ala
        115                 120                 125
Asp Met Arg Ser Asn Asn Tyr Ser Glu Gly Tyr Ser Ala Arg Gly Gly
    130                 135                 140
Gln Cys Arg Ser Ala Phe Asn Leu Thr Val Asn Pro Gly Gly Ser Ser
145                 150                 155                 160
Ser Gly Ser Ser Val Ala Val Gly Ala Asn Leu Val Pro Phe Ala Leu
                165                 170                 175
Gly Thr Glu Thr Asp Gly Ser Gly Thr Phe Leu Val Trp Ser Ser Leu
            180                 185                 190
Phe Gln Thr Ser Leu Thr Val Thr Asp Ser Asp Gln Ser Ser Ala Glu
        195                 200                 205
Lys Cys Cys Cys Trp Tyr Lys Ala Tyr Ser Gly Pro His Ile Thr Arg
    210                 215                 220
Arg Arg Asn Pro
225
```

<210> 24928
<211> 218
<212> PRT
<213> A.fumigatus

<400> 24928

```
Arg Ser Arg Ile Val Ile Asn Pro Ala Gln Arg Asn Ala Val Val Gly
1               5                   10                  15
Ile Lys Pro Thr Val Gly Leu Thr Ser Arg Asp Gly Val Ile Pro Glu
            20                  25                  30
Ser Leu His Gln Asp Thr Val Gly Val Phe Ala Lys Thr Val Arg Asp
        35                  40                  45
Ala Thr Tyr Ile Leu Asp Ala Ile His Gly Val Asp Pro Arg Asp Asn
    50                  55                  60
Tyr Thr Leu Ala Gln Asn Gly Arg Thr Pro Val Gly Gly Tyr Ala Gln
65                  70                  75                  80
Tyr Leu Ser Asp Arg Ser Ser Leu Lys Gly Ala Val Phe Gly Leu Pro
                85                  90                  95
Trp Glu Ser Val Trp Arg Leu Gly Asp Pro Asp Gln Ile Ser Gln Leu
            100                 105                 110
Met Lys Leu Leu Asp Leu Ile Arg Ala Ala Gly Ala Thr Ile Ile Asn
        115                 120                 125
Gly Thr Glu Phe Pro His Tyr Arg Gln Ile Val Ser Pro Asp Gly Trp
    130                 135                 140
Asp Trp Asp Tyr Gly Ser Arg Arg Gly Tyr Pro Asn Glu Ser Glu Tyr
145                 150                 155                 160
Thr Tyr Val Lys Val Asp Phe Tyr Asn Asn Ile Lys Ala Tyr Leu Ser
                165                 170                 175
```

```
Glu Leu Asn Asn Thr Asn Met Arg Ser Leu Glu Asp Leu Val Glu Tyr
            180                 185                 190
Asn Lys Ala Asn Phe Gly Met Glu Gly Gly Phe Pro Gly Leu His His
        195                 200                 205
Gly Gly Gly Arg Asn Arg Ala Met Arg Thr
    210                 215
```

<210> 24929
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24929

```
Phe Gly Thr Lys Lys Gly Lys Leu Ser Cys Asp Thr Ile Gln Glu Val
1               5                   10                  15
Asn Arg Leu Leu Phe Lys Asp Phe Ser Pro Asn Lys Thr Ala Gly Val
            20                  25                  30
Val Ser Gly Gln Arg Ile Asp Lys Val Asn Phe Pro Arg Val Val Leu
        35                  40                  45
Asn Ser Cys Asn Ser Ile His His Ala Leu Asp Leu Ser Thr Gly Arg
    50                  55                  60
Phe Tyr Arg Leu Ile Ala Trp Asn Phe Thr Val Ile
65                  70                  75
```

<210> 24930
<211> 231
<212> PRT
<213> A.fumigatus

<400> 24930

```
Ser Gln Lys Asn Ala Gly Asp Gln Leu Pro Ser Val Val Asp Val Arg
1               5                   10                  15
Asn Met Ser Val Ala Lys Ser Ile Ala Ala Val Leu Val Ala Leu Leu
            20                  25                  30
Pro Gly Ala Leu Ala Gln Ala Asn Thr Ser Tyr Val Asp Tyr Asn Val
        35                  40                  45
Glu Ala Asn Pro Asp Leu Thr Pro Gln Ser Val Ala Thr Ile Asp Leu
    50                  55                  60
Ser Phe Pro Asp Cys Glu Asn Gly Pro Leu Ser Lys Thr Leu Val Cys
65                  70                  75                  80
Asp Thr Ser Ala Arg Pro His Asp Arg Ala Ala Ala Leu Val Ser Met
                85                  90                  95
Phe Thr Phe Glu Glu Leu Val Ser Asn Thr Gly Asn Thr Ser Pro Gly
            100                 105                 110
Val Pro Arg Leu Gly Leu Pro Pro Tyr Gln Val Trp Ser Glu Ala Leu
        115                 120                 125
His Gly Leu Asp Arg Ala Asn Phe Thr Asp Glu Gly Glu Tyr Ser Trp
    130                 135                 140
Ala Thr Ser Phe Pro Met Pro Ile Leu Thr Met Ser Ala Leu Asn Arg
145                 150                 155                 160
Thr Leu Ile Asn Gln Ile Ala Thr Ile Ile Ala Thr Gln Gly Arg Ala
                165                 170                 175
Phe Asn Asn Val Gly Arg Tyr Gly Leu Asp Val Tyr Ala Pro Asn Ile
            180                 185                 190
Asn Ala Phe Arg Ser Ala Met Trp Gly Arg Gly Gln Glu Thr Pro Ala
        195                 200                 205
```

```
Arg Arg Arg Leu Leu Pro Gly His Arg Arg Met Arg Thr Ser Ile Ser
    210                 215                 220
Leu Ala Ser Arg Val Val Cys
225                 230

<210> 24931
<211> 70
<212> PRT
<213> A.fumigatus

<400> 24931
Gln Ala Phe Ser Gln Glu Glu Thr Leu Val Arg Ser Arg Leu Lys Leu
1               5                   10                  15
Trp Ala Ser Phe Tyr Cys Phe Val Gln Ile Tyr Gly Leu Ile Val Trp
            20                  25                  30
Leu Leu Gly Gln His Asn Asp Ser Leu Met Ser Cys Asp Tyr Ala Leu
        35                  40                  45
Thr Leu Ile Leu Gly Phe Gln Gln Asp Ile Leu Ala Asn Val Ile Cys
    50                  55                  60
Leu Met Asn Thr Phe Ser
65                  70

<210> 24932
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24932
Leu Arg Gly Leu Gln Asn Asn Gly Glu Leu Arg Leu Gly Lys Ser Trp
1               5                   10                  15
Leu Phe Ser Arg Ser Phe Asp Asn Trp Asn Met Gly Glu Phe Ala Arg
            20                  25                  30
Phe Phe Pro Glu Leu Gly Lys Ile Leu Ile Met Asp Thr Met Met Met
        35                  40                  45
Glu Pro Trp Asn Leu His Glu Thr Ser Cys Phe Gly Ser Pro
    50                  55                  60

<210> 24933
<211> 143
<212> PRT
<213> A.fumigatus

<400> 24933
Trp Gly Val Ser Gln Pro Gln Glu Phe Leu Leu Gly Gly Arg Ala Val
1               5                   10                  15
Pro Thr Val Thr Phe Tyr Lys Phe Lys Gly Leu Val Ala Gln Ser Arg
            20                  25                  30
Glu Gly Thr Pro His Val Glu Phe Asn Leu Arg Trp Ile Glu Ser Leu
        35                  40                  45
Met Arg Ile His Gly Arg Tyr Phe Lys Asp Asn Ser Gly Thr Leu Ala
    50                  55                  60
Thr Glu Leu Arg Ala Ile Gln Arg Ala Val Asp Asp Ile Arg Glu Asn
65                  70                  75                  80
Leu Arg Lys Leu Thr Glu Lys Asn Leu Tyr Asp Leu Asn Tyr Leu Leu
                85                  90                  95
Ser Lys Pro Val Leu Ala Asp Lys Ile Asn Gly Val Pro Lys Ala Ile
```

```
            100                 105                 110
Gln Asp Tyr Asp Ala Ile Leu Val Asp Gly Glu Asp Ala Arg Met Ser
        115                 120                 125
Asp Val Asp Gly Asp Asp Arg Glu Gly Glu Trp Val Gly Leu Glu
    130                 135                 140
```

<210> 24934
<211> 150
<212> PRT
<213> A.fumigatus

<400> 24934

```
Arg Ala Glu Asn Cys Leu Leu Arg Thr Tyr Glu Arg Gly Val Ser Phe
1               5                   10                  15
Asp Thr Phe Asp Asn Pro Asp Ala Ala Asp Phe Ser Leu Thr Leu Asn
            20                  25                  30
Tyr Lys His Lys Gly Tyr Gln Cys Thr Arg Arg Ser Arg Thr Phe Leu
        35                  40                  45
Cys Gly Thr Asp Gln Asn Asp Tyr Ser Asp Phe Ala Leu Glu Trp Leu
    50                  55                  60
Ile Asp Glu Leu Val Asp Asp Gly Asp Glu Ile Val Cys Leu Arg Ala
65                  70                  75                  80
Val Glu Lys Asp Ser Gly Leu Ala Ser Asp Ala Glu Ile Glu Ala Gly
                85                  90                  95
Lys Tyr Arg Glu Glu Ala Glu Arg Leu Phe Glu Gln Val Ile Gln Lys
            100                 105                 110
Asn Ser Gln Asp Glu Lys Ala Ile Ser Leu Val Leu Glu Leu Ala Val
        115                 120                 125
Gly Arg Val Gln Asp Ile Ile Gln Arg Met Val His Leu Arg Thr Arg
    130                 135                 140
Ile Trp Ile Glu Val Cys
145                 150
```

<210> 24935
<211> 327
<212> PRT
<213> A.fumigatus

<400> 24935

```
Ser Met Ser Trp Ser Thr Met Ala Met Arg Leu Ser Val Cys Glu Pro
1               5                   10                  15
Leu Lys Arg Thr Arg Ala Ser Arg Ala Met Arg Lys Ser Arg Leu Glu
            20                  25                  30
Ser Thr Gly Arg Lys Pro Arg Gly Cys Ser Ser Arg Ser Tyr Arg Arg
        35                  40                  45
Thr Ala Arg Thr Lys Arg Pro Ser Ala Trp Phe Trp Asn Trp Arg Leu
    50                  55                  60
Val Gly Phe Arg Thr Leu Ser Ser Glu Trp Tyr Ile Ser Gly Arg Glu
65                  70                  75                  80
Phe Gly Leu Lys Tyr Ala Asn Thr Ser Lys Ile Arg Ile Tyr Glu Pro
                85                  90                  95
Ala Leu Leu Ile Val Gly Thr Arg Gly Arg Lys Leu Gly Gly Val Gln
            100                 105                 110
Gly Leu Leu Pro Gly Ser Val Ser Lys Tyr Cys Leu Gln Gln Ser Pro
        115                 120                 125
Ile Pro Val Ile Val Val Arg Pro Thr Thr Lys Arg Glu Lys Lys Lys
```

```
    130                 135                 140
Lys Lys Arg Gln Ala Asp Pro Thr Arg Arg Ser Tyr Asn Gln Ile Leu
145                 150                 155                 160
Glu Gln Ser Ser Arg Arg Gly Ser Arg Ile Phe Asp Ala Ser Ser Ser
                165                 170                 175
Thr Glu Ser Asn Ile Ser Arg Leu Pro Asp Glu Glu Ala Ala Val Ala
            180                 185                 190
Ala Ala Leu Gly Leu Pro Ala Ser Tyr Thr Asn Ser Arg Ser Ser Leu
        195                 200                 205
Ser Met Ser Glu Arg Ser Ser Val Ser Gln Glu Glu Pro Val Pro Pro
    210                 215                 220
Asn Trp Gly Ser Leu Ser Val Thr Ala Lys Ser Arg Leu Ala Glu Ser
225                 230                 235                 240
Ala Glu Thr Thr Glu Asp Glu Gly Ala Ser Asp Asp Asp Asn Ser Ala
                245                 250                 255
Ser Gln Ser Gly Gln His Ile Glu Asp Val Ser Pro Lys His Lys Ala
            260                 265                 270
Ala Asp Asp Ser Gln Ala Val Ser Lys Glu Gly Asp Val Ala Pro Asp
        275                 280                 285
Ser Gly Thr Pro Thr Thr Thr Gly Thr Pro Pro Pro Leu Glu Ser Arg
    290                 295                 300
Lys Val Asn Ile Pro Leu Ile Val Thr Glu Asp Ile Ser Thr His Gln
305                 310                 315                 320
Lys Asp Lys Gly Asn Gly Gly
                325
```

<210> 24936
<211> 446
<212> PRT
<213> A.fumigatus

<400> 24936

```
Ile Pro Asp Leu Gln Asp Ile Lys Ala Leu Cys Asp Pro Val Gly Gly
1               5                   10                  15
Ser Ile Ala Cys Leu Gln Val Gln Val Gln Thr Ile Ser Ile Met His
            20                  25                  30
Leu Thr Ser Leu Val Leu Thr Val Gly Leu Ala Ala Ala Ala Pro Ser
        35                  40                  45
Phe Asn Pro Arg Gly Lys Gly His Asp Ser Arg Pro Ala Val Thr Asn
    50                  55                  60
Ile Gln Val Gly Pro Arg Pro Tyr Tyr Leu Leu Asp Ala Met Ala Asp
65                  70                  75                  80
Ser Pro Leu Lys Lys Lys Leu Gln Ser Cys Ser Glu Lys Arg Ile Lys
                85                  90                  95
His Ala Pro Ala Phe Ser Ile Ser His Arg Gly Gly Pro Leu Glu Phe
            100                 105                 110
Pro Glu His Thr Arg Glu Gly Ile Leu Ala Gly Ala Arg Met Gly Ala
        115                 120                 125
Gly Ile Met Glu Cys Asp Val Ala Phe Thr Ser Asp Arg Gln Leu Val
    130                 135                 140
Cys Arg His Ser Gln Cys Asp Leu His Thr Thr Thr Asn Ile Leu Thr
145                 150                 155                 160
Ile Pro Ser Leu Ala Ala Lys Cys Thr Val Pro Phe Gln Pro Ala Ala
                165                 170                 175
Asn Gly Lys Pro Ala Thr Ala Lys Cys Cys Thr Ser Asp Ile Thr Leu
            180                 185                 190
```

```
Ala Glu Phe Lys Thr Leu Cys Ala Lys Met Asp Gly Tyr Asn Ala Ser
        195                 200                 205
Ala Thr Thr Pro Glu Asp Tyr Gln Arg Gly Thr Ala Ala Trp Arg Thr
    210                 215                 220
Asp Leu Tyr Ala Thr Cys Gly Thr Leu Ile Asp His Asn Glu Tyr Ile
225                 230                 235                 240
Glu Leu Val Asp Arg Leu Gly Leu Gln Phe Thr Pro Glu Leu Lys Thr
                245                 250                 255
Pro Glu Val Ala Met Pro Phe Gly Gly Asn Tyr Thr Gln Ala Met Tyr
            260                 265                 270
Ala Gln Gln Leu Ile Asp Asp Tyr Lys Ala His Gly Ile Asp Pro Ser
        275                 280                 285
Arg Val Trp Pro Gln Ser Phe Leu Pro Asp Asp Ile Phe Tyr Trp Leu
    290                 295                 300
Gln His Glu Pro Lys Phe Gly Lys Gln Ala Val Tyr Leu Asp Glu Arg
305                 310                 315                 320
Val Asp Thr Asp Ala Gly Tyr Gln Lys Ala Val Asp Gly Met Ala Asp
                325                 330                 335
Leu Ala Lys Lys Gly Val Lys Ile Ile Ala Pro Pro Ile Phe Ala Leu
            340                 345                 350
Leu Asn Thr Thr Ala Asp Gly Glu Ile Val Pro Ser Ala Tyr Ala Val
        355                 360                 365
Ala Ala Lys Lys Ala Gly Leu Asp Ile Ile Thr Trp Ser Leu Glu Arg
    370                 375                 380
Ser Gly Pro Leu Lys Ala Ala Ala Ala Lys Gly Glu Tyr Tyr Ile Gln
385                 390                 395                 400
Ser Val Lys Ser Thr Ile Thr Gly Asp Gly Asp Met Tyr Arg Ile Val
                405                 410                 415
Asp Ala Leu Ala Arg Lys Val Gly Val Lys Gly Ile Phe Ser Asp Trp
            420                 425                 430
Pro Ala Thr Val Thr Tyr Tyr Ala Ala Cys Met Gly Leu Asp
        435                 440                 445
```

<210> 24937
<211> 149
<212> PRT
<213> A.fumigatus

```
<400> 24937
Lys Arg Asn Ser Ser Arg Ala Arg Arg Ser Ala Ser Ser Thr Leu Pro
1               5                   10                  15
Pro Ser Leu Ser Pro Thr Val Val Val Arg Ser Ser Phe Pro Asn Thr
            20                  25                  30
Leu Ala Arg Ala Phe Ser Pro Val Arg Ala Trp Ala Gln Ala Ser Trp
        35                  40                  45
Asn Ala Thr Ser His Ser Pro Gln Thr Val Ser Ser Ser Ala Ala Thr
    50                  55                  60
Arg Ser Ala Thr Cys Thr Arg Gln Pro Thr Ser Ser Pro Ser Arg Ala
65                  70                  75                  80
Trp Gln Arg Asn Ala Pro Phe Pro Ser Ser Pro Arg Gln Thr Ala Ser
                85                  90                  95
Pro Arg Arg Pro Ser Ala Ala Pro Pro Thr Ser Pro Ser Pro Ser Leu
            100                 105                 110
Arg Pro Ser Ala Pro Arg Trp Thr Gly Thr Thr Pro Arg Leu Pro Arg
        115                 120                 125
Pro Arg Thr Thr Ser Ala Ala Arg Arg Arg Gly Ala Arg Ile Tyr Thr
```

```
    130                 135                 140
Arg His Ala Ala Arg
145

<210> 24938
<211> 388
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (79),(137)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24938
Phe Phe Phe Pro Pro Lys Lys Phe Val Asn Lys Val Asp Ser Pro Gly
1               5                  10                  15
Asn Lys Gly Cys Ser Asn Ser Gly Pro Phe Asn Ser Pro Ile Arg Ala
            20                  25                  30
Pro Ile Gly Thr Asn Gly Asp Phe Cys Gln Gly Ser Gln Ser Arg Ala
        35                  40                  45
Leu Thr Met Phe Val Met Tyr Ala Ala Ser Ser Asn Lys Gly His Leu
    50                  55                  60
Phe Ser Arg Phe Gly Ser Ala Arg Phe Leu Pro Ser Ser Asn Xaa Gly
65                  70                  75                  80
Ala Gln Ile Glu Leu Leu Asp Gly Thr Gly Ile Ser Asn Gly Tyr Met
                85                  90                  95
Pro Ala Asn Val Arg Cys Asp Asn Cys Leu Gln Trp Thr Gly Gly Ser
            100                 105                 110
Leu Asp Pro Ser Ser Ser Ser Ser Ser Trp Ile Trp Ala Glu Lys Gln
        115                 120                 125
Gly Pro Ala Ile Asp Ser Asn Asp Xaa Arg Tyr Ala Ile Thr Arg His
    130                 135                 140
Asp Ser Arg Gly Val His Thr Ile Asn Met Ser Gln Ala Arg Ala Ala
145                 150                 155                 160
Asn Val Asp Ala Ser Asn Pro Phe Ala Gly Gln Asn Ala Ala Ser Thr
                165                 170                 175
Pro Glu Thr Val Thr Thr Gly Gly Thr Thr Ala Ser Glu Ser Asp Ser
            180                 185                 190
Ile Leu Ile Ala His Ala Val Leu Met Ser Val Ala Phe Val Val Phe
        195                 200                 205
Phe Pro Ser Phe Ala Ile Ser Ile Arg Ile Ile Pro Asn Ser Thr Val
    210                 215                 220
Val Ser Arg Ile His Ala Pro Leu Gln Leu Leu Thr Leu Ala Met Ala
225                 230                 235                 240
Leu Ala Gly Leu Gly Leu Gly Val Tyr Leu Gly Val Asp Thr Asn Gln
                245                 250                 255
Met Asp Lys Tyr His Pro Ile Ile Gly Leu Val Val Val Gly Met Leu
            260                 265                 270
Leu Leu Phe Gln Pro Leu Met Gly Phe Leu Gln His Met His Phe Arg
        275                 280                 285
Arg Thr Gly Gly Lys Ser Phe Phe Ala Tyr Val His Arg Trp Leu Gly
    290                 295                 300
Arg Thr Leu Ile Ala Leu Gly Ile Ile Asn Gly Gly Leu Gly Phe Leu
305                 310                 315                 320
Leu Thr Lys Asn Ala Gly Asn Ala Ala Pro Lys Gly Ala Val Ile Ala
```

```
                325                 330                 335
Tyr Ser Val Val Ala Gly Val Val Gly Leu Ala Tyr Ile Thr Phe Val
            340                 345                 350
Ile Val Leu Pro Phe Arg Ser Lys Lys Ser Ala Ala Pro Gln Lys Val
        355                 360                 365
Thr Ser Leu Asn Gly Ser Gly Glu Gly Ile Ala Met Gln Glu Arg Asn
    370                 375                 380
Gly Ala Ser Asp
385
```

<210> 24939
<211> 74
<212> PRT
<213> A.fumigatus

```
<400> 24939
Gln Asp Pro Leu Met Gly Arg Pro Ala Gln Phe Asn Asn Gly Leu Ala
1               5                   10                  15
Tyr Thr Pro Gln Gln Leu Gly Pro Lys Tyr Gly Gly Gln Pro Gln Gln
            20                  25                  30
Tyr Gln Pro Pro Val Gly Tyr Asn Tyr Glu Ala Phe Gln Thr Pro Gly
        35                  40                  45
Thr Ala Ala Lys Pro Pro Phe Gly Arg Arg Lys Leu Gln Ile Gly Ile
    50                  55                  60
Tyr Gly Val Val Thr Ser Arg Asn Ala Thr
65                  70
```

<210> 24940
<211> 100
<212> PRT
<213> A.fumigatus

```
<400> 24940
Phe Gly Val Ser Thr Asn Arg Ala Ile Arg Thr Gly Lys Thr Tyr Leu
1               5                   10                  15
Leu Asn Ser Val Ser Ser Arg Leu Leu Ser Cys Val Ser Leu Glu Ser
            20                  25                  30
Glu Ser Phe Leu Cys Leu Leu Pro Val Asp Gly Ser Asp Gln Val Leu
        35                  40                  45
Asn Leu Leu Leu Phe Thr Val Gly Asn Ala Ala Lys Gln Pro Phe Tyr
    50                  55                  60
Asn Phe Ser Phe Ser Pro Asp Cys Leu Val Thr Ile Thr Pro Pro Ile
65                  70                  75                  80
Tyr Ile Asp Asp Leu Met Lys Leu Thr Asn Leu Ser Cys Ile Ile Thr
                85                  90                  95
Tyr Thr Asp Pro
            100
```

<210> 24941
<211> 178
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24941
Phe Gly Thr Ser Gly Leu Phe Gly Met Gly Gln Ala Tyr Ile Ile Xaa
1 5 10 15
Ser Asp Thr Phe Arg Lys Ser Met Asn Ile Ala Leu Pro Val Arg Gln
20 25 30
Pro Lys Asn Gly Gln Ser Pro Gly Arg Asp Asp Ser Gln Gln Ser Lys
35 40 45
Ser Ile Arg Ile Leu Arg Glu His Leu Glu Ala Glu Arg Ala Lys Met
50 55 60
Ile Gln Glu Gln His Lys Ser Pro Asn Ser Leu Glu Ile Ser Phe Ile
65 70 75 80
Asp Arg Ala Leu Asn Asn Leu Lys Glu Ala Lys Glu Asn Ile Lys Arg
85 90 95
Glu Thr Ala Glu Lys Leu Asp Ala Val Arg Gly Gln Ala Pro Val Lys
100 105 110
Asn Ala Asp Gly Thr Ile Ala Glu Pro Pro Arg Leu Gly Glu Lys Asp
115 120 125
Leu Lys Leu Ala Ala Asp Tyr Glu Arg Arg Arg Lys Glu Glu Glu Asp
130 135 140
Trp Lys Arg Glu Glu Arg Asn His Ala Arg Arg Glu Ala His Leu Lys
145 150 155 160
Ala Met Glu Leu Glu Arg Glu Lys Ala Arg Ser Ala Phe Lys Val Lys
165 170 175
Gln Arg

<210> 24942
<211> 61
<212> PRT
<213> A.fumigatus

<400> 24942
Ser Ala Ser Cys Val Cys Asp Pro Thr Leu Phe Gly Thr Ser Lys Asn
1 5 10 15
Val Thr Asp Tyr Leu Val His Lys Trp Glu Asp Pro Asn Ile Arg Glu
20 25 30
Leu Thr Pro Gln Phe Leu Pro Ile Phe Gln Ser Val Leu Cys Gly Asp
35 40 45
Ser Asp Gln Leu Glu Asp Tyr Arg Arg Ala Glu Leu Ile
50 55 60

<210> 24943
<211> 85
<212> PRT
<213> A.fumigatus

<400> 24943
Ser Phe Arg Pro Ser Arg Val Lys Thr Lys Thr Ile Gly Met Tyr Ile
1 5 10 15
Leu Tyr Leu Phe Leu Ser Ala Tyr Cys Thr Met Ala Ala Leu His Lys
20 25 30
His Ala Asp Ser Asn Asp Glu His Thr Arg Leu Pro Ser Ser Leu Arg
35 40 45
Arg Ala Lys Cys Val Arg Asp Val Lys His Asp Ser Phe Gln Arg Asn

```
    50                  55                  60
Leu Arg Pro Ser Phe His Cys Ser Tyr Cys Phe His Val Ile Phe Gly
65                  70                  75                  80
Leu Val Leu Thr Thr
                85
```

<210> 24944
<211> 249
<212> PRT
<213> A.fumigatus

<400> 24944

```
His Arg Ala Thr Val Ala Asp Ile Asn Arg Asn Met Ala Glu Asn Leu
1               5                   10                  15
Arg Tyr Cys Gly Pro Ser Leu Ile Ala Asn Glu Thr Thr Leu His Asn
            20                  25                  30
Val Ile Gln Met Val Thr Asp Ile Ile Thr Lys Lys His Pro Cys Gln
        35                  40                  45
Leu Glu Phe Gly Pro Glu Glu Glu Ser Leu Glu Ala Gly Glu Glu Thr
    50                  55                  60
Ser Glu Phe Asp Trp Val Val Val Asp Thr Ala Leu Asp Val Val Ser
65                  70                  75                  80
Gly Leu Ala Ala Ala Leu Gly Glu Ser Phe Ala Glu Leu Trp Lys Val
                85                  90                  95
Phe Glu Lys Thr Ile Leu Arg Tyr Ala Gly Ser Thr Glu Ala Leu Glu
            100                 105                 110
Arg Ala Thr Ala Val Gly Val Leu Ala Glu Cys Ile Asn Gly Met Gly
        115                 120                 125
Ala Gly Val Thr Gln Phe Thr Arg Pro Phe Leu Lys Leu Leu Ile His
    130                 135                 140
Arg Leu Gly Asp Glu Asp Pro Gln Thr Lys Thr Asn Ala Ala Tyr Ala
145                 150                 155                 160
Val Gly Arg Leu Val Glu His Ser Thr Ala Asp Ala Glu Ile Val Lys
                165                 170                 175
Glu Tyr Pro Thr Ile Leu Gly Arg Leu Glu Ser Cys Leu Gln Met Lys
            180                 185                 190
Val Ser Arg Leu Gln Asp Asn Ala Thr Gly Cys Leu Ser Arg Met Ile
        195                 200                 205
Leu Lys His Arg Glu Ala Ile Pro Leu Lys Asp Val Leu Pro Val Leu
    210                 215                 220
Val Ser Ile Leu Pro Leu Lys Asn Asp Tyr Tyr Glu Asn Glu Pro Leu
225                 230                 235                 240
Tyr Arg Met Ile Cys Gln Leu Cys Met
                245
```

<210> 24945
<211> 335
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (258)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24945

```
Trp Pro Asn Arg Leu Leu Thr Lys His Asp Ser Ser Cys Leu Ile Pro
1               5                  10                  15
Asp Ala Pro Ser Met Met Leu Arg Ser Pro Ile Pro Pro Glu Arg Thr
            20                  25                  30
Ser Ser Arg Ser Pro Ala Pro Pro Arg Pro Ser Phe Asp Asp Glu Leu
        35                  40                  45
Glu Arg Pro Gly Ser Ala Gly Ser Asp Ala Ser Ser Val Ala Ser Asn
    50                  55                  60
Val Thr Thr Val Ser Ala Ile Gln Ser Ser Leu Asn Asn Phe Gly Ala
65                  70                  75                  80
Ala Pro Asp Ala Ser Ser Pro Arg Ile Pro Arg Thr Ser Ser Thr Asn
                85                  90                  95
Gly Ser Gly Thr Thr Asp Asp Asn Pro Arg Arg Pro Ser Ala Ser Ser
            100                 105                 110
Leu Met Pro Gln Asn Glu Met Thr Ser Arg Lys Ile Ser Gly Arg Val
        115                 120                 125
Val Pro Pro Asp Leu Ser Arg His Arg Pro Arg His His Ser Gln Gly
    130                 135                 140
Phe Phe Glu Pro Ser Leu Pro Thr Ala Ser Leu Ser Asp Val Thr Leu
145                 150                 155                 160
Ser Ala Ser Arg Ile Ala Ala Gln Ala Ala Met Gln Gln Gln Ser Ser
                165                 170                 175
Ala Ala Gln His Pro Pro Lys Arg Leu Pro Ser Asn Val Gln Gly Pro
            180                 185                 190
Asp Gly Arg Gly Gly Ser Ile Ser Pro Pro Leu Pro Pro Pro Gln Gln
        195                 200                 205
Val Leu Ala Ala Pro Gly Ser Gly Ser Thr Ser Gly Gln Ser Tyr Gln
    210                 215                 220
Asn Gly Ile Gly Gly Gly Asn Ala Leu Ala Ala Thr Thr Ala Ala Asn
225                 230                 235                 240
Val Val Phe Pro Arg Gly Pro Ala Leu Gln Pro Gly Met Ala Ser Asp
                245                 250                 255
Pro Xaa Gln Pro Glu Arg Glu Gln Met Gln Asn Gly His Lys Pro Lys
            260                 265                 270
Met Met Ser Phe Ser Lys Pro Lys Pro Leu Gly Ile Ser Arg Asp Gln
        275                 280                 285
Asp Leu Thr Val Trp Ile Gly Tyr Thr Val Pro Thr Lys Met Gly Phe
    290                 295                 300
Pro Gly Leu Val Gly Leu Ser Pro Pro Pro Gly Val Glu Arg Ile Pro
305                 310                 315                 320
Phe Pro Glu Pro Leu Ser Asp Val Leu Phe Asn Pro Arg Leu Cys
                325                 330                 335
```

<210> 24946
<211> 403
<212> PRT
<213> A.fumigatus

```
<400> 24946
Arg Tyr Gln Ala Val Lys Asp Phe Leu Met Gln Cys Phe Gln Lys Asp
1               5                  10                  15
Pro Asn Leu Arg Val Ser Ala Arg Lys Leu Leu Lys His Pro Trp Ile
            20                  25                  30
Val Asn Ala Arg Arg Ser Asp Ser Val Val Pro Lys Lys Ser Thr Glu
        35                  40                  45
Tyr Glu Glu Ala Val Arg Ser Val Gln Glu Trp Asn Glu Ala Leu Arg
```

```
    50                  55                  60
Ser Pro Gly Ala Gly Thr Leu Arg Lys Pro Phe Arg His Asp Arg Gln
65                  70                  75                  80
Ser Pro Ser Pro Leu Arg Arg Asn Gln Leu Pro Ser Arg Asn Thr Pro
                85                  90                  95
Thr Lys Asp Ala Leu Pro Ala Pro Val Val Ser Asn Ala Lys Asp Gln
            100                 105                 110
Ser Leu Leu Ser Asn Ala Thr Ala Glu Asp Asn Trp Asp Asp Asp Phe
        115                 120                 125
Ala Thr Ala Ile Ser Pro Ser Ala Leu Gln Leu Pro His Leu Arg Pro
    130                 135                 140
His Asp Asn Phe Gly Gly Met Leu Ser Ser Glu Lys Leu Lys Ala Phe
145                 150                 155                 160
Ala Ser Leu Asp Gly Thr Val Ile Lys Ser Glu Asn Ser Phe Gly Asp
                165                 170                 175
Phe Asn Asp Ser Phe Arg Thr Thr Leu His Cys Gly Glu Ser Asp Pro
            180                 185                 190
Leu Gln Thr Ile Arg Pro Phe Pro Phe Lys Gln Thr Gly Thr Asp Asp
        195                 200                 205
Gly Phe Ala Gln Lys Ser Pro Leu Gln Met Glu Pro Lys Arg Ser Thr
    210                 215                 220
Pro Phe Val His Asn Val Pro Ile Leu Thr Gln Asn Pro Val Pro Pro
225                 230                 235                 240
Ser Arg Gln Ala Arg Pro Ala Ser Phe Tyr Lys Glu Asn Ser Val Glu
                245                 250                 255
Asp Tyr Ser Asp Ile Ile Ile Thr Asp Glu Asp Val Leu Gly Arg Lys
            260                 265                 270
Leu Asn Gly Val Lys Val Arg Met Glu Ala Asn Ile Tyr Pro Asn Val
        275                 280                 285
Asp Asp Cys Leu Ser Asp Leu Phe Gln Glu Thr Asp Glu Glu Arg Tyr
    290                 295                 300
Ile Ser Asn Ser Ala Asp Leu Pro Pro Ser Lys Glu Ile Val Arg Tyr
305                 310                 315                 320
His Thr Pro Ser Arg Asp Asp Glu Gln Glu Pro His Leu Arg Arg Gln
                325                 330                 335
Leu Ser Thr Lys Arg His Arg Ser Ala Val Glu Ile His Arg Phe Ala
            340                 345                 350
Glu Asn Glu Arg Asp Glu Asp Phe Ser Asp Ile Leu Gly Pro Glu Glu
        355                 360                 365
Val Ala Leu Asp Lys Pro Asp Ser Asp Gly Ser Ser Asp Arg Ser Thr
    370                 375                 380
Leu Met Leu Asn Ser Arg His Cys Leu His His Gly Ala Gly Arg Ser
385                 390                 395                 400
Arg Ala Thr
```

<210> 24947
<211> 91
<212> PRT
<213> A.fumigatus

<400> 24947

```
Pro Asn Cys Ile Cys Asp Thr Trp Ala Pro Ser Arg Gly Ala Ile Gln
1               5                   10                  15
Val Cys Ile Asn Pro Lys Ser Arg Ala Ile Ser Ile His Pro Ala Ser
            20                  25                  30
```

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```
Val Phe Glu Lys Leu Val Val Arg Lys Leu Asp Gly Tyr Cys Met Glu
        35                  40                  45
Asp Thr Asn Leu Leu Tyr Val Val Leu Arg Ser Leu Gly Tyr Gln Val
    50                  55                  60
Tyr Arg Thr Gly Gly Arg Val Ser Arg Ala Ala Ala Ala Gly Ser Asn
65                  70                  75                  80
Ala Val Val Gly Tyr Gln Ala Leu Tyr Val Pro
                85                  90
```

<210> 24948
<211> 73
<212> PRT
<213> A.fumigatus

<400> 24948

```
Val Gly Thr Gly Trp Arg Ser Val Asp Cys Ser Gly Ala Gln Arg Ala
1               5                   10                  15
Gly Ser Asp Gln Asp Leu Glu His Ala Asn Leu Gln Ser Val Ile Arg
            20                  25                  30
Gln Tyr His Thr Arg Thr Trp Asp Gln Phe Leu Gly Glu Val Leu Ala
        35                  40                  45
Glu Ser Cys Val Pro Val Pro Trp Asp Glu His Thr Glu Asn Leu Asp
    50                  55                  60
Arg Leu Leu Arg Ser Leu Trp Leu Gly
65                  70
```

<210> 24949
<211> 436
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(2),(418)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24949

```
Xaa Xaa Leu Arg Gly Asp Asp Asn Ala Ile Ile Leu Lys Arg Tyr Asn
1               5                   10                  15
Arg Tyr Pro Leu Ile Ile Asp Pro Ser Gly Arg Val Thr Glu Phe Leu
            20                  25                  30
Gln Lys Glu Ser Thr Asp Arg Lys Leu Thr Val Thr Ser Phe Leu Asp
        35                  40                  45
Asp Ser Phe Val Lys Gln Leu Glu Ser Ala Leu Arg Phe Gly Asn Pro
    50                  55                  60
Ile Leu Ile Gln Asp Ala Glu His Leu Asp Pro Ile Leu Asn His Val
65                  70                  75                  80
Leu Asn Lys Glu Tyr Gln Lys Thr Gly Gly Arg Val Leu Ile Gln Leu
                85                  90                  95
Gly Lys Gln Glu Ile Asp Phe Ser Pro Ser Phe Lys Leu Phe Leu Ser
            100                 105                 110
Thr Arg Asp Pro Ser Ala Thr Phe Pro Pro Asp Val Cys Ser Arg Thr
        115                 120                 125
Thr Phe Val Asn Phe Thr Val Thr Gln Ser Ser Leu Arg Thr Gln Ser
    130                 135                 140
Leu Asn Glu Val Leu Lys Phe Glu Arg Pro Asp Val Asp Ala Arg Arg
```

```
145                 150                 155                 160
Thr Asp Leu Val Lys Leu Gln Gly Glu Phe Lys Ile His Leu Arg Gln
                165                 170                 175
Leu Glu Lys Arg Leu Leu Gln Ala Leu Asn Glu Ser Arg Gly Asn Ile
            180                 185                 190
Leu Asp Asp Asp Asn Val Ile Glu Thr Leu Glu Thr Leu Lys Lys Glu
        195                 200                 205
Ala Ala Glu Ile Ser Lys Lys Met Val Glu Thr Glu Gly Val Met Thr
    210                 215                 220
Glu Val Glu Asn Ile Thr Leu Asn Tyr Asn Ile Ile Ala Arg Ser Cys
225                 230                 235                 240
Ser Ala Val Phe Ala Val Leu Glu Gln Leu His His Ile Asn His Phe
                245                 250                 255
Tyr Gln Phe Ser Leu Gln Tyr Phe Val Asp Ile Phe His Ser Val Leu
            260                 265                 270
Tyr Gln Asn Lys Arg Leu Ala Ala Glu Lys Asp His Ser Ala Arg Val
        275                 280                 285
Gln Ile Ile Leu Lys Asp Leu Phe Val Thr Thr Phe Gln Arg Thr Ser
    290                 295                 300
Leu Gly Leu Ala Gln Lys Asp Arg Ile Thr Leu Ala Met Leu Leu Ala
305                 310                 315                 320
Gln Ala Ala Pro Tyr Pro Met Asp Lys Thr Ile Ile Asp Ile Ile Leu
                325                 330                 335
Asp Glu Ser Val Gln Gly Gly Asp Leu Ser Thr Ala Pro Glu Leu Lys
            340                 345                 350
Glu Gln Val Leu Thr Lys Ile Ser Asn Met Pro Ile Phe Lys Ala Ser
        355                 360                 365
Phe Ala Asn Ile Thr Gln Glu His Gly Ile Ser Phe Trp Ala Lys Tyr
    370                 375                 380
Trp Leu Lys Ala Val Ser Arg Ser Leu Gly Met Asn Ile Arg Lys Ile
385                 390                 395                 400
Ser Thr Asp Cys Phe Ala His Cys Gly Trp Val Asn Leu Ala Gly Leu
                405                 410                 415
Asp Xaa Phe Val Pro Thr Ala Glu Arg Phe Ile Gln Thr Val Leu Gly
            420                 425                 430
Pro Lys Asn Pro
        435

<210> 24950
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24950
Glu Thr Glu Arg Glu Ser Ile Ser Thr Phe Tyr Cys Asn Ser Ser Gln
1               5                   10                  15
Lys His Gln Pro Ser Asn Thr Asn Leu Leu Pro Thr Lys Phe Ile Asn
            20                  25                  30
Pro Ser Ile Asp His Phe Ile Ile Arg Phe Ile Arg Pro Ile Ser Gln
        35                  40                  45
Ser Ile Phe Leu Pro Pro Gln Pro Ser Thr Thr Ile Arg Gln
    50                  55                  60

<210> 24951
<211> 77
<212> PRT
```

<213> A.fumigatus

<400> 24951
Phe His Lys Leu Thr Val Ala Ser Ala Asp Gly Pro Val Glu Asp Gln
1 5 10 15
Cys Ala Ala Lys Leu Val Asn Met Leu Gly Pro Ala Val Ser Leu Lys
20 25 30
Ala Trp Ile Trp Gly Leu Gln Tyr Ala Arg Pro Gly Gln Gln Val Arg
35 40 45
Ala Gly Ser Gln Phe Pro Lys Asp Glu Tyr Phe Cys His Asp Met Phe
50 55 60
Leu Leu Gly Ser Arg Ser Met Gln Cys Leu Arg Gln Tyr
65 70 75

<210> 24952
<211> 64
<212> PRT
<213> A.fumigatus

<400> 24952
Cys Ser His Trp His Gly Gln Tyr Ile Leu Glu Ala Pro Arg Asp Asn
1 5 10 15
Tyr Trp Lys Thr Leu Met Leu Ile Ile Ile Ile Phe Ile Ser Tyr Ser
20 25 30
Ser Ala Leu Ser Ala His Tyr Gly Gly Thr His Met Glu Leu Pro Thr
35 40 45
Val Pro Tyr Pro Leu Leu Ser Ala Pro Leu His Lys Ser Ser Asp Cys
50 55 60

<210> 24953
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24953
Ser Pro Met Glu Ala Leu His Pro Pro Val Lys Thr Ser Val Thr Gly
1 5 10 15
His Ala Thr Gly Ala Thr Ala Val Val Leu Ile Gly Leu Phe Ile Gln
20 25 30
Leu Ile Ser Phe Gly Ile Phe Gly Leu Thr Ala Val Met Phe Tyr Arg
35 40 45
Arg Ile Met Glu Ala Pro Thr Pro Gln Cys His Asn Ala Asp Leu Pro
50 55 60
Trp Lys Arg Thr Leu Glu Met Leu Phe Gly Val Ser Ala Leu Ile Ile
65 70 75 80
Val Arg Ser Val Tyr Arg Val Val Glu Tyr Ser Val Gly Ser Asn Gly
85 90 95
Tyr Leu Leu Gln His Glu Trp Pro Met Tyr Val Phe Asp Thr Ile Pro
100 105 110
Met Leu Thr Val Met Ile Ile Phe Tyr Ile Trp Tyr Pro Ser Arg Ile
115 120 125
Gln Gln Pro Ser Ser Cys Glu Asp Gln Arg Lys
130 135

<210> 24954
<211> 63

<212> PRT
<213> A.fumigatus

<400> 24954
Arg Arg Pro Cys Val Asn Lys Leu Phe Ser Leu Pro Trp Leu Trp Ala
1 5 10 15
Ser Gln Phe Arg Ser Asn Lys Gln Ala Ser Ser Ser Glu Thr Tyr Ser
20 25 30
Lys Ser Pro Ile Leu Leu Leu Thr Ile Ser Arg Phe Pro Ser Thr Lys
35 40 45
His Ser Gln Leu Tyr Gln Gln Met Glu Leu Thr Ala Ser Phe Val
50 55 60

<210> 24955
<211> 72
<212> PRT
<213> A.fumigatus

<400> 24955
Glu Val Tyr Ser Thr Ile Phe Arg Gln Pro Gly Ser Ser Ile Cys Thr
1 5 10 15
Leu Met Asp Ala Leu Gln Thr Asp Leu Cys Pro Ser Gly Gly Val Phe
20 25 30
Thr Arg Arg Gly Val Met Cys Phe Ile Leu Leu Phe Asn Ala Leu Leu
35 40 45
Ala Lys Ala Glu Leu Thr Ala Ser Phe Glu Ser Arg Pro Asn Met Leu
50 55 60
Lys His Lys Asn Leu Tyr Val Phe
65 70

<210> 24956
<211> 302
<212> PRT
<213> A.fumigatus

<400> 24956
Leu Arg Pro Ser Gly Ile Pro Phe Cys Ser Leu Leu Lys Pro Ala His
1 5 10 15
Gln Ala Lys Thr His Ala Phe Arg Gly Lys Ala Glu Arg Thr Ile Ser
20 25 30
Thr His Phe Ser Leu Gln Leu Pro Ser Cys Ser Gly Leu Asn Met Arg
35 40 45
Trp Ala Pro Lys Val Gly Asn Glu Leu Ile Arg Gly Ile Ser Gly Gly
50 55 60
Glu Lys Lys Arg Val Ser Ile Ala Glu Ala Met Ile Thr Lys Ala Ser
65 70 75 80
Thr Gln Cys Trp Asp Asn Ser Thr Lys Gly Leu Asp Ala Ser Thr Ala
85 90 95
Leu Glu Tyr Val Gln Ser Leu Arg Thr Leu Thr Asp Met Ala Asn Val
100 105 110
Ser Thr Leu Val Ala Leu Tyr Gln Ala Ser Glu Asn Leu Tyr Asn Leu
115 120 125
Phe Asp Lys Val Met Leu Ile Glu Glu Gly Lys Cys Ala Tyr Tyr Gly
130 135 140
Ser Ala Lys Glu Ala Lys Ala Tyr Phe Glu Arg Leu Gly Phe Glu Cys
145 150 155 160

```
Pro Pro Arg Trp Thr Thr Pro Asp Phe Leu Thr Ser Val Ser Asp Pro
                165                 170                 175
His Ala Arg Arg Ile Gln Arg Gly Trp Asp Asp Arg Val Pro Arg Ser
            180                 185                 190
Gly Glu Asp Phe Arg Arg Val Tyr Arg Asn Ser Asp Thr Tyr Arg Ala
        195                 200                 205
Ala Leu Gln Glu Ile Ser Gln Phe Glu Lys Glu Leu Glu Thr Gln Glu
    210                 215                 220
His Glu Arg Ala Gln Ala Arg Gln Glu Met Pro Lys Lys Asn Tyr Thr
225                 230                 235                 240
Ile Pro Phe Tyr Asp Gln Val Ile Val Leu Thr Arg Arg Gln Phe Leu
                245                 250                 255
Ile Met Tyr Gly Asp Lys Gln Thr Leu Val Gly Lys Trp Cys Ile Leu
            260                 265                 270
Val Phe Gln Ala Leu Ile Ile Gly Ser Leu Phe Tyr Asn Leu Pro Pro
        275                 280                 285
Thr Arg Phe Val Asp Met Tyr Thr Asp Gly Cys Ser Ser Asn
    290                 295                 300
```

<210> 24957
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24957

```
Ala Leu Ser Ser Tyr Ser Arg Pro Tyr Ser Met Ala Thr Lys Arg Lys
1               5                   10                  15
Ala Ser Ala Leu Asn Ala Ala Val Asp Asp Glu Pro Val Asp Pro Ser
            20                  25                  30
Asp Glu Leu Ala Phe Tyr Cys Leu Gly Gly Gly Asn Glu Val Gly Arg
        35                  40                  45
Ser Cys His Ile Ile Gln Tyr Lys Gly Lys Thr Val Met Val Cys Cys
    50                  55                  60
Ala Ile Ser Leu Leu Val Trp Arg Gln Leu Thr Asp Gly Gln Tyr Ser
65                  70                  75                  80
Ser Met Arg Ala Cys Ile Leu Arg Lys Lys Asp Ser Arg Leu Ser His
                85                  90                  95
Ser Ser Thr Ser Ser Thr
            100
```

<210> 24958
<211> 225
<212> PRT
<213> A.fumigatus

<400> 24958

```
Gly Asn Arg Ser Lys Pro Asp Leu Val Ser Tyr Pro Lys Gly Trp Lys
1               5                   10                  15
Lys Thr Ser Cys Cys Val Pro Leu Gln Leu Gln Arg Tyr Leu Tyr Cys
            20                  25                  30
Ser Tyr Pro Ser Pro Leu Ser Tyr Phe Arg Val Thr Arg Leu Trp Tyr
        35                  40                  45
Glu Ile Ala Leu Ser Leu Ser Asn Leu Pro Arg Ala Pro Ser Phe Pro
    50                  55                  60
Leu Ser Val Met Ser Thr Ser Ser Leu Ser Ile Ala Val Asp Pro Val
65                  70                  75                  80
```

```
Ala Leu Val Thr Thr Glu Cys Ile Thr Val Thr Ser Ser Met Arg Lys
                  85                  90                  95
His Ala Arg Trp Ala His Ser Ser Val Ala Ala Ile Leu Gly Gly Asn
             100                 105                 110
Ala Ser Ser Arg Val Tyr Glu Lys Asp Thr Ser Ala Pro Pro Ser Pro
         115                 120                 125
Arg Asn Gly Ala Ala Ser Pro Arg Pro Arg Ser Arg Leu Ser Val Met
     130                 135                 140
Asp Asp Asp His Ala Leu Ala Asn Arg Trp Gly Leu Arg Gly Lys Lys
145                 150                 155                 160
Gly Lys Ser Met Gln Asp Asn Pro Leu Ile Ser Ala Phe Thr Arg Leu
                 165                 170                 175
Arg Ser Asp Leu Lys Asp Cys Lys Asp Ile Arg Thr Phe Asp Thr Pro
             180                 185                 190
Ala Leu Leu His Pro Phe Leu Gln Val Thr Arg Ser Ser Ser Thr Ser
         195                 200                 205
Ala Leu Asp His Leu Pro Arg Pro Asp Cys Tyr His Gln Val Leu Arg
     210                 215                 220
Val
225
```

<210> 24959
<211> 285
<212> PRT
<213> A.fumigatus

<400> 24959

```
Arg Ile Ala Lys Thr Phe Gly Pro Ser Ile His Arg His Ser Cys Thr
1               5                  10                  15
Pro Ser Cys Lys Leu Pro Gly His Pro Gln Pro Arg Pro Ser Ile Thr
            20                  25                  30
Ser Arg Ala Leu Ile Ala Ile Thr Lys Phe Phe Ala Tyr Asn Ile Ile
        35                  40                  45
Asn Arg Asp Ser Pro Arg Leu Ser Met Ala Met Gln Leu Leu Ser Ala
    50                  55                  60
Ala Ile Thr His Cys Arg Phe Glu Ala Ser Asp Ser Ala Ala Asp Glu
65                  70                  75                  80
Ile Val Leu Leu Arg Ile Leu Lys Leu Met Glu Gly Met Leu Ser Arg
                85                  90                  95
Pro Glu Gly Glu Leu Leu Gly Asp Glu Ser Val Cys Glu Met Met Glu
            100                 105                 110
Thr Gly Leu Ser Met Cys Cys Gln Val Arg Leu Ser Glu Val Leu Arg
        115                 120                 125
Arg Ser Ala Glu Met Ala Met Val Asn Met Cys Gln Val Ile Phe Ser
    130                 135                 140
Arg Leu Ser Gln Leu Glu Val Thr Glu Ser Val Asp Ser Gly Ser Leu
145                 150                 155                 160
Thr Thr Ala Gly Asn Ser Ala Glu Gln Thr Gly Leu Lys Met Asp Pro
                165                 170                 175
Ser Val Asp Gly Asn Thr Val Thr Ser Gln His Pro Ser Ala Met Gly
            180                 185                 190
Ser Asp Thr Ala Gly Pro Glu Arg Glu Arg Thr Gly Gly Asp Glu Pro
        195                 200                 205
Ser Asp Gln Ala Ala Gly Gly Ser Ala Val Ala Ala Pro Pro Asn Pro
    210                 215                 220
Glu Asp Asp Phe Gly Asn Glu Val Glu Pro Tyr Ser Leu Pro Ser Ile
```

```
225                 230                 235                 240
Arg Glu Leu Phe Arg Val Leu Ile Asp Leu Leu Asp Pro His Asn Arg
                245                 250                 255
Gln His Thr Asp Pro Met Arg Val Met Ala Leu Arg Asp Tyr Arg Cys
            260                 265                 270
Gly Ser Gly Ser Arg Arg Gly Leu His Cys Gln Pro Ser
        275                 280                 285

<210> 24960
<211> 220
<212> PRT
<213> A.fumigatus

<400> 24960
Asp Arg Ala Thr Asn Val Ser Asp Ala Gly Ser Asn Ala Val Arg Ser
1               5                   10                  15
Asp Pro Gly Glu Thr Ala Glu Ser Thr Val Asp Gly Ala Gly Ala Arg
            20                  25                  30
Arg Glu Ser Trp Val Pro Ile His Ser Pro Gly Leu Arg Leu Pro Gly
        35                  40                  45
Pro Asp Ala Glu Arg Arg Pro Ser Leu Pro Leu Pro Pro Arg Ala Leu
    50                  55                  60
Gln Ser Gln Ser Pro Tyr Ser Leu Pro Ser Leu Gln His His Pro Asp
65                  70                  75                  80
Gly Pro Leu Tyr Gly Thr Ser Ser Pro Ser Leu Pro Ser Leu Ala Pro
                85                  90                  95
Ser Ala Gly Ala Pro Pro Ser Gln Tyr Gly Gln Val Pro Pro Pro Asn
            100                 105                 110
Arg Leu Gln Pro Leu Asn Ser Trp Leu Thr Arg Gln Gln Gly Pro Tyr
        115                 120                 125
Ser Gln Ser Leu Pro Pro Ile Asn Gln Ala Thr Ser His Gly Leu Pro
    130                 135                 140
Leu Leu Pro Pro Pro Gly Ser Val Asn His Ala Ala Ala Ser Pro Pro
145                 150                 155                 160
Val Thr Val Asp Gly Phe Glu Gly Gly Val Ser Asn Ala Met Trp Ser
                165                 170                 175
Thr Ser Leu Gly Gly Asp Asp Val Val Ala Phe Leu Glu Gly Cys Asp
            180                 185                 190
Tyr Asp Gln Leu Ser Ser Met Met Pro Ser Glu Val Gly Ile Pro Thr
        195                 200                 205
Gly Trp Leu Ser Thr Val Trp Ser Glu Phe Ser Arg
    210                 215                 220

<210> 24961
<211> 252
<212> PRT
<213> A.fumigatus

<400> 24961
Lys Ile Leu Gln Leu Pro Leu Thr Cys Asn Arg Leu Phe Asn Asp Leu
1               5                   10                  15
Val Cys Cys Ile Ser Pro Ser Ser Lys His Ser Arg His Lys Ser Ala
            20                  25                  30
Ala Phe Ile Tyr Ile His Gln Pro Gln His Leu Ser Gln Lys Pro Val
        35                  40                  45
Glu Pro Ser Gly Pro Ala Thr Glu Leu Arg Val Ser Leu Glu Arg His
```

```
    50                  55                  60
Ser Leu Cys Ser Leu Cys Gly Ser Leu Cys Asp Arg Cys Phe Leu Phe
65                  70                  75                  80
Cys Leu Ser Cys Tyr Ser Ser Phe Val Leu His Thr Met Leu Ser Ala
                85                  90                  95
Gly Glu Arg His Gln Pro Pro Ile Asn Thr Asn Ala Val Val Asp Ala
            100                 105                 110
Ser Arg Thr Pro Val Thr Lys Val Ser Leu Asn His Asn Ser Thr Thr
        115                 120                 125
Ser Met Arg Ser Glu Thr Ser Lys Ala Glu Asn Ile Gln His Ile Trp
    130                 135                 140
Val Val Thr Gly Pro Ala Gly Cys Gly Lys Ser Thr Val Gly Arg Met
145                 150                 155                 160
Leu Gln Gln Glu Leu Gly Leu Pro Phe Leu Glu Gly Asp Asp Val Ser
                165                 170                 175
Thr Cys Ile His Ala Ile Phe Leu His Thr Ala Ser Arg Gln Asn Ala
            180                 185                 190
Gln Val Asp Leu Thr Arg Thr His Thr Val Pro Leu Thr Asp Gln Pro
        195                 200                 205
Gly Glu Asn Gly Gln Trp His Ser Ser Asn Arg Arg Arg Pro Leu Gly
    210                 215                 220
Leu Ala His Leu Leu Ala Gln Ser Arg His Arg Gly Pro Leu Pro Phe
225                 230                 235                 240
Ala Arg Phe Ser Pro Arg Gly Ser Asn Val Pro Arg
                245                 250
```

<210> 24962
<211> 182
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24962

```
Xaa Arg Leu Leu Asp Pro Arg Phe Pro Glu Lys Ile Pro Asp Val Phe
1               5                   10                  15
Gln Val Ser His His Phe Thr Gly Ala Thr Tyr Gly Val Leu Cys Lys
            20                  25                  30
Val Lys Arg Gln Cys Ala Leu His Val Trp Asp His Cys Val Ser Phe
        35                  40                  45
Arg Glu Met Thr Thr Phe Leu Ser Ser Ala Val Ser Phe Asp Ser Thr
    50                  55                  60
Phe Val Asn Thr Thr Leu Ile Gly Leu Gly His Leu Ser Cys Val Leu
65                  70                  75                  80
Ile Gln His His Ala Asp Val Val Leu Pro Cys Ala Glu Tyr Phe Asn
                85                  90                  95
Pro Gly Trp Glu Ile Glu Leu Gly Thr Cys Glu Gly Ala Leu Gln His
            100                 105                 110
Arg Arg Thr Phe Arg Arg Lys Ile Asp Pro Val Val Asn Gly Ile Thr
        115                 120                 125
Asn Met Asp Lys Tyr Lys Pro Ile Glu Thr Ile Lys Thr Ala Thr Pro
    130                 135                 140
Thr Val Val Met Leu Ser His Ile Arg Tyr Val Leu Arg Asp Leu Asn
```

```
145                 150                 155                 160
Arg Arg Ile Lys Leu Ala Asp Val Gln Gln Ile Cys Gln Arg His Gln
                165                 170                 175
Asp Gly Asp His Gly Asn
            180
```

<210> 24963
<211> 194
<212> PRT
<213> A.fumigatus

<400> 24963

```
Ser Ala Phe Pro Leu Cys Asp Tyr Val Ala Asp Pro Val Gln Trp Leu
1               5                   10                  15
Phe Met Asn Ser Ser Ile Ser Glu Gly Leu Pro Leu Ala Met Gly Glu
            20                  25                  30
Ala Ala Leu Thr Gly Val Pro Val Val Cys Thr Asp Val Gly Ala Ser
        35                  40                  45
Phe Cys Val Val Thr Asp Arg Ala Thr Gly Lys Lys Phe Ser Glu Val
    50                  55                  60
Val Ala Pro Asn Asp Ala Ile Ser Leu Ala Ser Ala Gln Ile Arg Val
65                  70                  75                  80
Leu Ala Leu Leu Gly Gln Trp Ser Ala Phe Ala Glu Asp Glu Glu Gly
                85                  90                  95
Tyr Val Pro Pro Thr Leu Ser Leu His Pro Ser Arg Glu Glu Val Glu
            100                 105                 110
Gln Ile Lys Arg Arg Met Tyr Asp Lys Ala Glu Gln Arg Arg Lys Leu
        115                 120                 125
Gly Met Leu Gly Arg Ser Asn Val Tyr Asn Asn Phe Ser Ser Asp Arg
    130                 135                 140
Tyr Leu Arg Glu His Glu Gln Met Leu Trp Leu Gly Lys Tyr Gln Ser
145                 150                 155                 160
Arg Ser Tyr Val Ala Arg Gly Pro Gly Ser Ser Ser Asn Ser Arg Arg
                165                 170                 175
Phe Phe Lys Glu Lys Trp Lys Ser Ser Ile Leu Ile Glu Leu Asp Glu
            180                 185                 190
Met Pro
```

<210> 24964
<211> 102
<212> PRT
<213> A.fumigatus

<400> 24964

```
Ile Ala Glu Leu Ser Trp Leu Thr Ser Ser Arg Tyr Val Lys Asp Ile
1               5                   10                  15
Lys Thr Ala Ile Met Ala Thr Asp Leu Ile Val Asn Ile Trp Gly Phe
            20                  25                  30
Arg Asp Tyr Arg Leu His Ile Tyr Gly Asp Met Glu Arg Ala Pro Ala
        35                  40                  45
Tyr Ala Ser Glu Cys Gln Glu Ile Ile Ala Ser Lys Gly Leu Arg Glu
    50                  55                  60
His Val Val Leu Lys Gly Leu Gly Asn Pro Ser Val Val Leu Gln Asp
65                  70                  75                  80
Ala Val Ser Cys Asn Pro Pro Phe Leu Ser Val Thr Met Trp Leu Ile
```

```
                85                  90                  95
Gln Tyr Ser Gly Cys Ser
            100
```

<210> 24965
<211> 204
<212> PRT
<213> A.fumigatus

<400> 24965

```
Cys Gln Asp Arg Asp Lys Val Cys Ile Leu Thr Asn Tyr Ser Lys Asp
1               5                  10                  15
Ile Cys Gln Pro Cys Pro Leu Tyr Pro Val Trp Met Ser Asp Glu Asn
            20                  25                  30
Thr Asp Val Met Arg Gln Phe Phe Glu Gly Leu Arg Gln Val Trp Ser
        35                  40                  45
Asp Glu Lys Val Asp Glu Trp Tyr Asn Ala Ile Tyr Gly Asp Val Ser
    50                  55                  60
Gly Pro Glu Lys Pro Glu Asn Leu Val Leu Leu Ser Pro Asp Ala Tyr
65                  70                  75                  80
Leu Leu Phe Thr Lys Gly Tyr Ile Ala Phe Glu Pro Val Asp Lys Asp
                85                  90                  95
Pro Glu Gly Met Trp Leu Ser Leu Lys Leu Trp Trp Leu Gln Arg Asp
            100                 105                 110
Glu Lys Asp Asn Val Asp Phe Ser Ile Ile Pro His Leu Pro Ser Asp
        115                 120                 125
Leu Asn Pro Ser Glu Tyr Gly Ile Ala Leu His Asp Val Cys Asn Asp
    130                 135                 140
Ser Pro Leu Leu Ser Gly Lys Thr Ile Thr Leu Asn Thr His Asp Pro
145                 150                 155                 160
Gln Asn Tyr Pro Leu Pro Asp Thr Arg Ile Ile Glu Met Gln Trp Val
                165                 170                 175
Leu Asn Arg Val Leu Ala Leu Ser Gly Ser Val Lys Pro Asn Ala Leu
            180                 185                 190
Asp Glu Trp His Glu Val Ala Asp Glu Glu Leu Ser
        195                 200
```

<210> 24966
<211> 567
<212> PRT
<213> A.fumigatus

<400> 24966

```
Gln Ile Ser Glu Asp Leu Ser Asp Lys Leu Ser Asp Ile Leu Thr Thr
1               5                  10                  15
Leu Val Glu Ile Phe Ala Leu Ser Thr Lys Ala Ile Lys Arg Gly Arg
            20                  25                  30
Leu Leu Lys Phe Thr Arg Asn Ile Leu Leu Gly Thr Asp Asp Ala Ile
        35                  40                  45
Lys Glu Ala Val Asp Lys Leu Asp Lys Leu Thr Lys Val Glu Ala Ser
    50                  55                  60
Leu Val Gly Ala Glu Thr Leu Val Glu Ala Lys Arg Thr Gly Arg Val
65                  70                  75                  80
Val Asp Thr Leu Gln Thr Thr Val Thr Ser Thr Asn Val Thr Val Gln
                85                  90                  95
Glu Thr Gly Lys Ala Val Asn Gln Met Thr Val Gln Val Thr Glu Val
```

```
                100                 105                 110
His Glu Met Leu Gly Asn Leu Leu Ile Ala Thr Asn Gly Lys Asp Glu
        115                 120                 125
Lys His Gly Asp Thr Ala Lys Ser Gln Arg Asp Leu Val Arg Lys Ile
    130                 135                 140
Leu Gln Pro Ser Ala Thr Asp Ser Ala Gln Asp Trp Tyr Asp Arg Ile
145                 150                 155                 160
Ser Lys Thr Arg Val Pro Gly Thr Gly Asp Trp Val Arg His Glu Asp
                165                 170                 175
Val Phe Gln Gly Trp Leu Ala Arg Asp Leu Pro Val Met Phe Val Ser
            180                 185                 190
Gly Asn Pro Gly Ala Gly Lys Ser Tyr Leu Ser Ser Ser Ile Ile Thr
        195                 200                 205
Phe Leu Lys Asp Gln Tyr Pro Gln Gly Val Gln His Pro Ser His Val
    210                 215                 220
Ser Ile Ala Tyr Phe Phe Phe Lys Asp Asp Asn Pro Ala Thr Arg Ser
225                 230                 235                 240
Phe His Gln Ala Leu Arg Asp Leu Ala His Gln Ile Ser Asn Asn Asp
                245                 250                 255
Pro Ala Tyr Glu Lys Tyr Leu Ala Ala Leu Gly Asp Tyr Gly Ser Val
            260                 265                 270
Arg Thr Leu Glu Ser Ala Trp Arg Thr Leu Phe Val Asn Tyr Phe Leu
        275                 280                 285
Lys Lys Glu Ser Ile Thr Ser Ser Val Tyr Val Leu Phe Asp Ala Val
    290                 295                 300
Asp Glu Ala Phe Glu Glu Glu Arg Leu Ala Phe Leu Gln Leu Ala Arg
305                 310                 315                 320
Asp Ile Leu Asp Ser Pro Asn Arg Gly Arg Leu Gln Leu Ala Met Val
                325                 330                 335
Gly Arg Pro His Ile Ser Asp Gln Val Ala Glu Ala Leu Glu Thr Asn
            340                 345                 350
Val Pro Thr Ile His Val Thr Thr Leu Lys Asn Ser Ala Asp Ile Asp
        355                 360                 365
Arg Tyr Ile Lys Thr Ser Ile Gln Lys Ser Val Ile Leu Arg Arg Val
    370                 375                 380
Ser Pro Ala Leu Arg Lys Glu Ile Thr Glu Lys Leu Ser Ala Gly Ala
385                 390                 395                 400
Glu Gly Met Phe Leu Trp Val Asn Leu Met Leu Gln Glu Leu Val Lys
                405                 410                 415
Lys Arg Asn Glu Ser Ser Ile Arg Lys Cys Leu Glu Gln Ala Pro Lys
            420                 425                 430
Gly Leu Lys Glu Met Leu Arg His Val Leu Leu Ser Phe Ser Ala Ser
        435                 440                 445
Leu Asn Asp Glu Glu Leu Glu Phe Leu Asn Glu Leu Leu Leu Trp Val
    450                 455                 460
Thr Cys Ala Val Arg Pro Leu Ser Leu Gly Glu Val Glu Ala Ile Leu
465                 470                 475                 480
Glu Leu Lys Ser Ala Glu Gly Asp Gly Met Ile Tyr Pro Glu Gly Ala
                485                 490                 495
Leu Arg Lys Gln Phe Ala Ala Phe Phe Asn Leu Asp Arg Glu Asp Gly
            500                 505                 510
Leu Thr Thr Thr Glu Leu Gln Thr Met Ala Lys Lys Thr Tyr Glu Ser
        515                 520                 525
Asp Asp Glu Asp Met Thr Lys Leu Asp Ser Asp Asp Glu Asp Ala Phe
    530                 535                 540
Glu Asp Val Asp His Leu Ile Glu Val Glu Ser Asn Lys Lys Ser Thr
```

545 550 555 560
Thr Gly Thr Phe Asn His Ala
565

<210> 24967
<211> 149
<212> PRT
<213> A.fumigatus

<400> 24967
Leu Pro Phe Ile Lys Gly Pro Pro Leu Thr Arg Asn Asn Phe Ser Phe
1 5 10 15
Ile Gly Ser Phe Gly Ile Phe Leu Gly Ile Thr Ala Pro Thr Lys Glu
20 25 30
Glu Pro Glu Phe Tyr Ser Leu Arg Leu Cys Glu Tyr Arg Trp Thr Leu
35 40 45
Ser Val Ser Arg Lys His Ala Glu Phe Leu Glu Phe Ala Leu Asp Ser
50 55 60
Leu Asp Asn Ala Cys Asn Leu Asp His His Val Pro Gly Lys Pro Gly
65 70 75 80
Ile Asp Glu Leu Met Thr Ser Ala Ala Lys Pro Thr Ile His Asn Pro
85 90 95
Pro Leu Pro Ser Ala Ser Gln Leu Asp Glu Ser Met Leu Glu Met Asp
100 105 110
Arg Ala Pro Asp Ser Thr Arg Gly Gly Thr Ser Ser Val Val Ser Gly
115 120 125
Leu Ala Ser Pro Ala Thr Ser Val Ser Asp Glu Ser Val Gln Glu Ala
130 135 140
Ser Val Pro Gln Leu
145

<210> 24968
<211> 163
<212> PRT
<213> A.fumigatus

<400> 24968
Trp Asp Ser Arg Gly Leu Tyr Ile Met Ile Val Ala Arg Leu Phe His
1 5 10 15
Leu Ile Leu Val Ile Trp Cys Ala Phe Ser Asp Gly Tyr Asp Leu Ser
20 25 30
Glu Arg Lys Gln Pro Gln Gly Arg Leu Gly Ile Thr Leu Asp Tyr Gly
35 40 45
Leu Ala Arg Asn Trp Pro Pro Ser Ile Asp Asp Arg Gly Ala Asp Thr
50 55 60
Gln Arg Asn Trp Phe Tyr Ser Ser His Leu Thr Phe Lys Glu Pro Val
65 70 75 80
Ser Thr Ile Thr Asp Gly Gln Leu Trp Gln Met Val Arg Asp Ala Leu
85 90 95
Asp Glu Ile Pro Ala Val Leu Thr Gln Tyr Gly Ile Ser Lys Asn Lys
100 105 110
Gly Gly Ser Asn Val Met Thr Val Leu Ala Phe Gly Asn Glu Ile Ile
115 120 125
Leu Ala Ser Ser Lys Lys Ser Val Asp Ser Phe Thr Tyr Glu Phe Gly
130 135 140
Asp Gly Asn Thr Pro Ser Cys Gln Gly Ser Ser Ala Leu Pro Gly Cys

145 150 155 160
Leu Glu Gly

<210> 24969
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24969
Phe Glu His Ser Arg Arg Gly Lys Ser Glu Asp Arg Pro Asp Pro Ser
1 5 10 15
Met Phe Tyr Ala His Cys Lys Leu Asp Ile Glu Arg Leu Ile Cys Gly
20 25 30
Cys Val Glu Pro Phe Asp Tyr Gly Gln Val Ala Gln Thr Gly Glu Asp
35 40 45
Lys Tyr Gln Lys Xaa Ser Lys Pro Ser Asn Ser Ile Ser Ser
50 55 60

<210> 24970
<211> 383
<212> PRT
<213> A.fumigatus

<400> 24970
Glu Arg His Pro Asp Asp Val Pro Ile Ile Ala Met Cys Gly Ser Gly
1 5 10 15
Gly Gly Leu Arg Ala Leu Val Ala Gly Thr Gly Ser Tyr Leu Ala Ala
20 25 30
Gln Glu Val Gly Leu Trp Asp Cys Val Thr Tyr Thr Ala Gly Val Ser
35 40 45
Gly Ser Cys Trp Leu Gln Thr Leu Tyr His Ser Ser Ile Thr Gly Arg
50 55 60
Asp Tyr Asn Arg Leu Val Asp His Leu Lys Asn Arg Leu Gly Val His
65 70 75 80
Ile Ala Phe Pro Pro Lys Ala Leu Asn Leu Leu Thr Thr Ala Pro Thr
85 90 95
Asn Lys Tyr Leu Leu Ser Gly Leu Val Glu Lys Leu Lys Gly Asp Pro
100 105 110
Gly Ala Asp Phe Gly Leu Val Asp Ile Tyr Gly Met Leu Leu Ala Ala
115 120 125
Arg Leu Leu Val Pro Lys Gly Glu Leu Gly Val Ser His Gln Asp Leu
130 135 140
Lys Leu Ser Asn Gln Arg Tyr Asn Leu Tyr Asn Gly Ala His Pro Met
145 150 155 160
Pro Ile Tyr Thr Ala Val Arg His Glu Ile Pro Val Leu Glu Ala Val
165 170 175
Glu Asp Glu Glu Pro Lys Lys Glu Ile Thr Pro Glu Lys Leu Ile Lys
180 185 190
Ala Ser Gln Arg Glu Ala Trp Phe Gln Trp Phe Glu Phe Thr Pro Phe
195 200 205

```
Glu Phe Phe Cys Glu Glu Leu Gly Ala Gly Ile Pro Thr Trp Ala Leu
    210                 215                 220
Gly Arg His Phe Asn Gly Gly His Asn Val Val Pro His Gly Glu Tyr
225                 230                 235                 240
Pro Leu Pro Glu Met Arg Val Pro Gly Leu Met Gly Val Trp Gly Ser
                245                 250                 255
Ala Phe Cys Ala Thr Leu Ser His Tyr Tyr Lys Glu Val Arg Pro Leu
            260                 265                 270
Leu Arg Gly Ile Val Gly Phe Gly Gly Ile Asp Ser Leu Ile His Gly
        275                 280                 285
Lys Ser Lys Asp Leu Ile Arg Val His Pro Ile Asp Pro Ala Thr Ile
    290                 295                 300
Pro Asn Tyr Val Leu Gly Met Lys Gly Gln Leu Pro Pro Ser Cys Pro
305                 310                 315                 320
Gly Ile Glu Ser Ala Glu Arg Val Ser Pro Asp His Gly Cys Gly Asn
                325                 330                 335
Glu Gln Gln Leu Ala Tyr Leu Pro Val Phe Thr Asp Ser Pro Arg Trp
            340                 345                 350
Gly Tyr Asn Trp Arg Leu Arg Cys Leu Pro Trp Thr Glu Arg Gln Lys
        355                 360                 365
Asn Gly Ile Ser Glu Glu Thr Gly His Ala Arg Ser Thr Ser His
    370                 375                 380

<210> 24971
<211> 150
<212> PRT
<213> A.fumigatus

<400> 24971
Ser Tyr Leu Thr Val Leu Ile Val Thr Ile Gly Val Gly Ile Gln Lys
1               5                   10                  15
Arg Pro Ser Ser Val Ser Gln Val Gly Pro Trp Ser Ser Asp Phe Arg
            20                  25                  30
Leu Ile Asn Ser Pro Ser Phe Thr Asp Gly Val Ser Ala Val Ser Ser
        35                  40                  45
Leu Ile Phe Ala Cys Ser Ala Thr Pro Ala Tyr Phe Ser Ile Ala Ala
    50                  55                  60
Glu Met Arg Asp Pro Arg Phe Phe Thr Arg Ala Leu Ile Ile Ser Gln
65                  70                  75                  80
Ile Gly Ser Thr Leu Ile Tyr Leu Val Ile Gly Val Val Val Tyr Tyr
                85                  90                  95
Tyr Cys Gly Ser His Val Ala Ser Pro Ala Leu Gly Ser Ala Gly Pro
            100                 105                 110
Ile Ile Lys Lys Ile Ser Tyr Gly Ile Ala Leu Pro Gly Leu Leu Ala
        115                 120                 125
Thr Thr Thr Ile Val Ile His Val Ser Pro Leu Val Leu Ile Tyr Thr
    130                 135                 140
Thr Pro Val Tyr Lys Tyr
145                 150

<210> 24972
<211> 89
<212> PRT
<213> A.fumigatus

<400> 24972
```

```
Val Gly Trp Leu Gly Thr Val Ala Leu Met Met Lys Thr Gln Ile Gly
1               5                  10                  15
Leu Gly Val Leu Ser Ile Pro Ser Val Phe Asp Thr Val Gly Met Ile
            20                  25                  30
Pro Gly Val Ile Leu Leu Cys Ile Val Val Ser Ile Ala Ala Trp Thr
        35                  40                  45
Ser Tyr Val Val Gly Val Phe Lys Ile Asn His Arg Gln Val Tyr Gly
    50                  55                  60
Ile Asp Asp Ala Gly Gly Leu Met Phe Gly Ala Ile Gly Lys Glu Ile
65                  70                  75                  80
Phe Ala Thr Ser Phe Cys Leu Cys Met
                85
```

<210> 24973
<211> 112
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (69),(87),(112)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24973

```
Asp Pro Val Lys Glu Thr Arg Ala Ala Pro Ser His Gln Ser Arg Val
1               5                  10                  15
Arg Arg Val Glu Ile Asp Gln Trp Arg Thr Tyr Thr Phe Pro His Leu
            20                  25                  30
Lys Leu Thr Ser Val Ala Leu Leu Thr Gln Thr Ile Thr Leu Pro Gln
        35                  40                  45
Ser Ala Tyr Leu Thr Phe Phe Ser Asp Pro Phe Thr Ile Ser Leu Trp
    50                  55                  60
Val Tyr His Thr Xaa Thr Tyr Tyr Glu Glu Asn Asp Ile Asp Asn Thr
65                  70                  75                  80
Asp Asp Ser Leu His Thr Xaa Leu Leu Asp Gly Arg Asn Met Leu Ala
                85                  90                  95
Glu His Ser Gly Arg Arg Gly Thr Val Arg Ser Gly Pro Gly Phe Xaa
            100                 105                 110
```

<210> 24974
<211> 380
<212> PRT
<213> A.fumigatus

<400> 24974

```
Arg Val Ile Glu Gln Cys Ala Ile Leu Gly Ile Pro Lys Glu Asp Met
1               5                  10                  15
His Lys Val Tyr Cys Asp Arg Glu Leu Leu Leu Pro Asp Leu Thr Cys
            20                  25                  30
Gly Leu Ser Val Ser Asp Phe Ser Ile Ala Trp Thr Ile Gly Tyr Asp
        35                  40                  45
Glu Arg Phe Gly Ser Asp Val Arg Leu Gln Gln Ala Leu Met Tyr Tyr
    50                  55                  60
Arg Pro His Val Asp Asp Ser Gln Tyr Thr Tyr Pro Leu Asp Phe Cys
65                  70                  75                  80
Pro Ile Tyr Asn Ala Glu Thr Lys Glu Ile Ile His Ile Asp Ile Pro
```

```
                85                  90                  95
Pro Val Arg Arg Pro Ile Ser Arg Ala Pro Pro Asn Asn Tyr His Pro
            100                 105                 110
Ala Ala Ile Glu Gln Asp Gly Gly Tyr Arg Thr Asp Ile Lys Pro Ile
        115                 120                 125
His Ile Thr Gln Pro Asp Gly Val Ser Phe Lys Val Asp Gly Arg Ile
    130                 135                 140
Ile Gln Trp Gln Asn Trp Ser Ile His Val Gly Phe Asn His Arg Glu
145                 150                 155                 160
Gly Ile Val Leu Asn Asn Ile Thr Phe Asn Asp Lys Gly Asn Val Arg
                165                 170                 175
Pro Ile Phe Tyr Arg Leu Ser Leu Ala Glu Met Val Val Pro Tyr Gly
            180                 185                 190
Asn Pro Glu His Pro His His Arg Lys His Ala Phe Asp Leu Gly Glu
        195                 200                 205
Tyr Gly Gly Gly Tyr Met Thr Asn Ser Leu Ser Leu Gly Cys Asp Cys
    210                 215                 220
Lys Gly Ala Ile His Tyr Met Asp Ala Ala Phe Val Asn Arg Ala Gly
225                 230                 235                 240
Ala Ser Thr Ile Val Lys Asn Ala Ile Cys Ile His Glu Glu Asp Ala
                245                 250                 255
Gly Ile Leu Phe Lys His Thr Asp Phe Arg Asp Glu Ser Ile Ile Val
            260                 265                 270
Thr Arg Gly Arg Lys Leu Ile Ile Ser His Ile Phe Thr Ala Ala Asn
        275                 280                 285
Tyr Glu Tyr Cys Val Tyr Trp Val Phe His Gln Asp Gly Thr Val Gln
    290                 295                 300
Leu Asp Ile Lys Leu Thr Gly Ile Leu Asn Thr Tyr Ala Met Asn Pro
305                 310                 315                 320
Gly Glu Asp Thr Lys Gly Trp Gly Thr Glu Val Tyr Pro Gly Val Asn
                325                 330                 335
Ala His Asn His Gln His Leu Phe Cys Leu Arg Ile Asp Pro Asn Ile
            340                 345                 350
Asp Gly Pro Asn Asn Thr Val Phe Gln Val Asp Ala Glu Arg Gly Pro
        355                 360                 365
Gly Glu Val Gly Ser Ala Glu Asn Lys Tyr Gly Asn
    370                 375                 380
```

<210> 24975
<211> 232
<212> PRT
<213> A.fumigatus

<400> 24975

```
Arg Ser Met Pro Arg Arg Thr Leu Arg Arg Asn Ser Ala Ala Cys Arg
1               5                   10                  15
Arg Leu Ser Ala Ser Ser Arg Ser Ser Thr Thr Pro Leu Leu Pro Leu
            20                  25                  30
Ser Ser Ser Pro Ser Ser Pro Arg Ala Val Thr Thr Thr Pro Pro Leu
        35                  40                  45
Pro Ser Ser Arg Ala Cys Ala Thr Ser Pro Ser Ala Thr Met Cys Ser
    50                  55                  60
Ser Ser Ser Thr Arg Cys Arg Pro Val Ser Val Pro Thr Gly Lys Phe
65                  70                  75                  80
Trp Ala His Asp His Trp Asn Leu Gln Thr Pro Pro Asp Ile Val Thr
                85                  90                  95
```

```
Phe Ser Lys Lys Ala Gln Thr Ala Gly Tyr Tyr Tyr Gly Asn Pro Ala
            100                 105                 110
Leu Arg Pro Asn Lys Pro Tyr Arg Gln Phe Asn Thr Trp Met Gly Asp
        115                 120                 125
Pro Ala Arg Ala Leu Ile Phe Arg Gly Ile Ile Glu Glu Ile Glu Arg
    130                 135                 140
Leu Asn Leu Val Glu Asn Thr Ala Ala Thr Gly Asp Tyr Leu Phe Ala
145                 150                 155                 160
Gly Leu Glu Arg Leu Ala Lys Gln Tyr Pro Glu His Leu Gln Asn Leu
                165                 170                 175
Arg Gly Lys Gly Gln Gly Thr Phe Ile Ala Trp Asp Thr Pro Lys Arg
            180                 185                 190
Asp Glu Phe Leu Ala Lys Ala Lys Gly Val Gly Val Asn Ile Gly Gly
        195                 200                 205
Ser Gly Val Ser Ala Val Arg Leu Arg Pro Met Leu Ile Phe Gln Lys
    210                 215                 220
His His Gly Lys His Ser Ala Val
225                 230
```

<210> 24976
<211> 221
<212> PRT
<213> A.fumigatus

<400> 24976

```
Pro Met Gly Leu Ser Ala Ala Arg His Met Arg Gly Glu Asn Leu Ser
1               5                   10                  15
Thr Gly Leu Leu Lys Val Ala Pro Lys Gly Leu Asn Gln Val Phe Thr
            20                  25                  30
Ala Met Ala Gly Ser Asp Ala Asn Glu Thr Ala Tyr Lys Ala Ala Phe
        35                  40                  45
Met Tyr Tyr Arg Gln Gln Gln Arg Gly Gly Pro Gln Ala Glu Phe Thr
    50                  55                  60
Ala Glu Glu Leu Glu Thr Thr Met Asn Asn Gln Ala Pro Gly Ser Pro
65                  70                  75                  80
Gln Leu Ser Ile Leu Ser Phe Lys Ser Ala Phe His Gly Arg Leu Phe
                85                  90                  95
Gly Ser Leu Ser Thr Thr Arg Ser Lys Ala Ile His Lys Met Asp Ile
            100                 105                 110
Pro Ala Phe Asp Trp Pro Gln Ala Pro Phe Pro Ser Leu Lys Tyr Pro
        115                 120                 125
Leu Glu Glu His Ala Gln Glu Asn Ala Gln Glu Glu Gln Arg Cys Leu
    130                 135                 140
Gln Glu Val Glu Arg Leu Ile Lys Glu Phe His Asn Pro Val Ala Ala
145                 150                 155                 160
Val Val Val Glu Pro Ile Gln Ser Glu Gly Gly Asp Asn His Ala Ser
                165                 170                 175
Pro Ala Phe Phe Gln Gly Leu Arg Asp Ile Thr Lys Arg Asn Asn Val
            180                 185                 190
Leu Phe Ile Val Asp Glu Val Gln Thr Gly Val Gly Ala Asn Arg Gln
        195                 200                 205
Val Leu Gly Pro Arg Ser Leu Glu Pro Pro Asp Ser Ser
    210                 215                 220
```

<210> 24977
<211> 68

<212> PRT
<213> A.fumigatus

<400> 24977
Cys Asn Ser Ser Ala Ile Pro Thr Phe Gly Ser Ile His Pro Ser Asn
1 5 10 15
Val Phe Glu Gly Tyr Ser Ser Phe Pro Thr Pro Leu Leu Glu Leu Asp
20 25 30
Leu Pro Ile Ser Glu Arg Arg Ala Leu Gly Ser Ser Val Leu Gln Ala
35 40 45
Glu His Ser Ala Glu Ser Leu Pro Ser His Phe Thr Ser Gly Glu Arg
50 55 60
Lys Ala Ser Gly
65

<210> 24978
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24978
Ser Arg Phe Ser Leu Leu Pro Leu Leu Leu Arg Pro Pro Phe Thr Pro
1 5 10 15
Pro Tyr Ser Gly Ala Ile Leu Phe Thr Ser Phe Leu Pro Pro Ser Pro
20 25 30
Asp Tyr Leu Ser Leu Val Val Phe Tyr Thr Leu Leu Arg Thr Thr Val
35 40 45
Ser Leu Asp Asp Ile Ala Ala Ser Ile Leu Asn Gln Leu Ile Asp Arg
50 55 60
Leu Asn Pro Ser Pro His Lys Val His Pro Ala Ser Phe Arg Leu His
65 70 75 80

<210> 24979
<211> 87
<212> PRT
<213> A.fumigatus

<400> 24979
Leu Gln Pro Tyr Arg Leu Leu Arg Leu Arg Pro Ala Arg Pro Ser Ala
1 5 10 15
Leu Leu Ser Pro Ala Val Ser Phe Ser Thr Phe Val Ser Ala His Glu
20 25 30
Asp Ile Ser Tyr Leu Lys Val Pro Gln Glu Leu Thr Gly His Cys Ile
35 40 45
Ser Ser Phe Arg Arg Arg Phe Cys Gln Glu Val Pro Leu Asn Val Ser
50 55 60
Tyr Ser Met Ser Leu Asp Ser Ser Phe Asn Ser Phe Thr Thr Met Ala
65 70 75 80
Met Val Glu Ile Ser Leu Ala
85

<210> 24980
<211> 272
<212> PRT
<213> A.fumigatus

<400> 24980
Leu Val Phe Thr Arg Arg Cys Cys Tyr Arg Arg Phe Val Ser Met Ala
1 5 10 15
Arg Leu Cys Arg Leu Lys Arg Gln Ala Asn Ser Thr Thr Val His Arg
20 25 30
Thr Val Pro Met Gln Ile Glu Ile Val Lys Asn Lys Trp Asp Thr Gly
35 40 45
Ser Arg Ala Ser Pro Phe Arg Thr Tyr Leu Tyr Asn His Val Gly Asp
50 55 60
Gln Ala Pro Phe Tyr Gln Pro Thr Ala Glu Asp Asp Glu Thr Lys Trp
65 70 75 80
Glu Glu Ala Leu Arg Glu Arg Pro Gly Ser Gly Tyr Val Pro Val Leu
85 90 95
Val Arg Gly Phe Trp Glu Leu Gly Lys Arg Ala Gln Arg Gln Lys Asp
100 105 110
Phe Leu Thr Met Ala Gln Thr Arg Leu His Glu Ile Asn Asn Cys Leu
115 120 125
Thr Asp Leu Leu Ser Arg His Asp Leu Lys Ile Ser Val Lys Ile Ala
130 135 140
Asp Cys Arg Arg Lys His Leu Val Leu Ser Lys Arg Cys Leu Ala Leu
145 150 155 160
Ala Ala Lys Thr Gln Val Leu Arg Asn Arg Gly Tyr Ala Met Asp Glu
165 170 175
Ala Glu Glu Glu Leu Lys Lys Lys Leu Ala Gln Leu Glu Arg Ser Val
180 185 190
Phe Asn Pro Ser Leu Asn Gly Arg Ala Glu Glu Ile Trp Ala Arg Met
195 200 205
Leu Ala Ile Arg Glu His Ser Lys Arg Leu Gln Ala Glu Met Glu Lys
210 215 220
Ala Gly Ala Ser Thr Ala Ala Gln Gly Glu Glu Glu Leu Asp Glu Asn
225 230 235 240
Thr Met Lys Thr Ala Lys Lys Val Cys Leu Pro Leu Gln Ile Ala Leu
245 250 255
His Ser Ser Val Pro Val Ala Ile Leu Leu Ile Pro Pro Asp Leu Gly
260 265 270

<210> 24981
<211> 225
<212> PRT
<213> A.fumigatus

<400> 24981
Lys Ser Arg Arg Gly Gly Ser Pro Gly Ser Asp Val Ser Glu Asp Glu
1 5 10 15
Glu Gly Ile Ala Ala Trp Gly Thr Ser Lys Lys Asp Leu Tyr Asn Ala
20 25 30
Asp Gln Ile Glu Thr Glu Ala Asp Ala Leu Glu Glu Glu Ala Glu Ala
35 40 45
Lys Arg Leu Gln Gln Lys His Leu Gln Ala Met Asn Glu Glu Asp Phe
50 55 60
Gly Phe Asp Glu Thr Glu Trp Val Glu Ser Asp Lys Lys Glu Asp Ala
65 70 75 80
Glu Asp Glu Ala Gly Val Val Thr Glu Val Leu Pro Gln Val Glu Ile
85 90 95
Thr Asp Asp Met Ser Ser Glu Glu Lys Leu Lys Ile Leu Lys Thr Arg
100 105 110

```
Tyr Pro Glu Phe Glu Pro Leu Ala Lys Asp Phe Ala Asp Leu Arg Thr
        115                 120                 125
Lys His Ala Glu Leu Glu Lys Ala Ala Lys Ala Val Lys Ala Pro Glu
    130                 135                 140
Asp Glu Glu Ala Ile Leu Gly Pro Ala Pro Ala Pro Val Ile Lys Phe
145                 150                 155                 160
Arg Ala Leu Ser Ala Tyr Leu Gly Ala Ile Ser Met Tyr Phe Met Leu
                165                 170                 175
Leu Ser Ser Ser Gln Asp Ala Ser Gly Lys Pro Cys Pro Leu Pro Pro
            180                 185                 190
Ala Gln Leu Arg Ala His Pro Val Met Gly Ser Leu Val Lys Phe Lys
        195                 200                 205
Lys Leu Trp Glu Thr Val Lys Asp Leu Ser Val Pro Glu Pro Pro Lys
    210                 215                 220
Gly
225
```

<210> 24982
<211> 111
<212> PRT
<213> A.fumigatus

<400> 24982

```
Ser Ser Val Ile Arg Phe Gly Glu Arg Gln Ser Leu Met Asn Asp Cys
1               5                   10                  15
Ser Trp Cys Arg Val Leu Met Phe Ser Val Met Ser Asp Ser Lys Ala
            20                  25                  30
Arg Ile Ile Gln Ala Tyr Phe Asn Gly Asp Lys Leu Val Ile Arg Lys
        35                  40                  45
Ser Arg Leu Tyr Asp Phe Ser Thr Pro Glu Thr Leu Ser Ser Ser Thr
    50                  55                  60
Thr Leu Phe Met Gln Trp Met Ala Ser Lys Thr Gly Gly Asn Thr Ser
65                  70                  75                  80
Gly Phe Pro Val Glu Asp Phe Glu Pro Phe Glu Glu Asp Asp Asp Thr
                85                  90                  95
Glu Leu Phe Gly Lys Lys Glu Ile Glu Lys Ile Ser Asp Ala Pro
            100                 105                 110
```

<210> 24983
<211> 204
<212> PRT
<213> A.fumigatus

<400> 24983

```
Gly Gly Ser Phe Ala Phe Val Pro Arg Arg Leu Asn Ser Phe Leu Ser
1               5                   10                  15
Cys Arg Ser Cys Phe Asn Asn Thr Val Leu His Ser Trp Arg Asn His
            20                  25                  30
Asp Pro Met Ala Ile Ile Arg Ser Thr Lys Asn Asp Leu Asn Val Ala
        35                  40                  45
Glu Asp Phe Ser Ile Ala Cys Phe Ile Ala Val Ser Trp Tyr Asn Ala
    50                  55                  60
Ile Glu Leu Ile Val Leu Cys Phe Thr Thr Phe Lys Lys Arg Gly Gly
65                  70                  75                  80
Phe Tyr Phe Trp Ala Leu Leu Ile Ser Ser Ile Gly Ile Leu Pro Phe
                85                  90                  95
```

```
Gly Leu Gly Tyr Ile Leu Leu Ile Phe Asp Ile Tyr Pro Gly Tyr Phe
            100                 105                 110
Ser Val Ala Leu Ala Asp Val Gly Trp Cys Ala Met Val Thr Gly Gln
        115                 120                 125
Ser Leu Val Leu Trp Ser Arg Leu His Leu Val Val Tyr Ser Arg Leu
    130                 135                 140
Val Leu Arg Ala Thr Leu Ala Met Ile Ile Ile Asp Gly Val Ile Leu
145                 150                 155                 160
His Thr Ile Gly Trp Val Phe Glu Met Gly Glu Gln Ser Pro Arg Ser
                165                 170                 175
His Trp Phe Thr Pro Ala Phe Tyr Ile Phe Glu Arg Ile Gln Leu Ile
            180                 185                 190
Cys Phe Ser Ile His Glu Ile Ile Leu Ser Ile Ile
        195                 200
```

<210> 24984
<211> 208
<212> PRT
<213> A.fumigatus

```
<400> 24984
Arg Arg Ser Gly Glu Arg Tyr Cys Cys Phe Gly Thr Glu Val Glu Glu
1               5                   10                  15
Trp Lys Gly Gly Phe Gly Leu Asp Asp Gly Glu Asp Asp Phe Val Asp
            20                  25                  30
Gly Glu Ala Asp Glu Leu Asp Ala Phe Glu Asp Ile Lys Gly Trp Gly
        35                  40                  45
Glu Pro Met Gly Pro Gly Arg Leu Leu Ala His Leu Glu Asp Pro Ala
    50                  55                  60
Asp Gly Val Gln Asp Asp Ser Val Asp Asp Asp His Gly Glu Arg Gly
65                  70                  75                  80
Ala Gln Asp Gln Ala Gly Val Tyr Asp Gln Met Glu Ser Gly Pro Glu
                85                  90                  95
Asp Gln Gly Leu Ala Arg Asp His Gly Ala Pro Ser Tyr Val Gly Glu
            100                 105                 110
Arg Asp Gly Glu Val Ala Arg Val Asp Val Lys Asp Glu Glu Asp Val
        115                 120                 125
Ala Gln Thr Glu Gly Glu Asn Ala Asp Arg Gly Asp Glu Glu Gly Pro
    130                 135                 140
Glu Val Glu Ala Ala Ala Leu Leu Glu Gly Gly Glu Ala Gln Asp Asn
145                 150                 155                 160
Glu Phe Asp Gly Ile Val Pro Gly Asp Gly Asp Glu Ala Gly Asn Gly
                165                 170                 175
Glu Val Phe Gly Tyr Val Gln Val Val Leu Gly Ala Ala Asp Asp Gly
            180                 185                 190
His Trp Val Met Val Pro Pro Ala Val Glu Asp Gly Val Val Glu Thr
        195                 200                 205
```

<210> 24985
<211> 415
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (381),(399)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 24985

```
Asn Pro Lys Glu Ser Pro Val Glu Arg Ala Leu Ala Gly Ala Asn Leu
1               5                  10                  15
Ile Ser Thr Gln Asp Met Arg Val Leu Gln Ala Ala Val Leu Phe Leu
            20                  25                  30
Leu Cys Leu Arg Arg Cys Cys Asp Ser Arg Leu Val Trp Ala Glu Ala
        35                  40                  45
Ala Ile Val Val Arg Val Ala Gln Arg Gln Gly Met His Arg Asp Gly
    50                  55                  60
Gln Arg Gln Gly Leu Thr Pro Phe Glu Ile Glu Met Arg Arg Arg Leu
65                  70                  75                  80
Trp Trp His Ile Cys Ile Leu Asp Met Leu Cys Ser Glu Asp Gln Gly
                85                  90                  95
Thr Asp Thr Gln Ile Trp Pro Gly Met Phe Asp Thr Lys Leu Pro Ser
            100                 105                 110
Asn Ile Asp Gly Asp Glu Val Thr Pro Gly Leu Thr Thr Leu Pro Pro
        115                 120                 125
Leu Arg Arg Gly Tyr Thr Asp Ile Thr Leu Cys Ile Ile His Cys Glu
    130                 135                 140
Met Met Ser Asn Leu Tyr Trp Ala Gly Lys Ser Leu Asp Glu Asp Ala
145                 150                 155                 160
Arg Gln Pro Ser Thr Ser Glu Lys Glu Lys Leu Leu Ser Thr Leu Ala
                165                 170                 175
Asn Arg Leu Glu Val Leu Tyr Leu His Asn Phe Asp Leu Asp Ile Pro
            180                 185                 190
Ile Gln Trp Val Thr Val Val Ile Ala Arg Leu Thr Leu Ser Lys Gly
        195                 200                 205
Trp Leu Val His Arg Leu Asn Ala Ser Thr Ala Gly Arg Asp Pro Ala
    210                 215                 220
Ala Thr Asn Asp Glu Ile Phe His Met Ala Val Glu Ile Val Lys Phe
225                 230                 235                 240
Ala Thr Leu Ile Gln Asn Asn Glu Ser Thr Ser Gln Trp Ala Trp Leu
                245                 250                 255
Cys Lys Ser Tyr Lys Gln Arg His Val Val Ala Tyr Ile Leu Ser Glu
            260                 265                 270
Leu Cys Val Arg Pro Val Thr Pro Glu Thr Glu His Ala Trp Glu Val
        275                 280                 285
Val Thr Glu Ile Tyr His Gln Trp Leu Arg Glu Asp Arg Gln Thr Asn
    290                 295                 300
Thr Met Leu Gln Lys Pro Leu Ser Arg Leu Met Glu Arg Ala Ala Leu
305                 310                 315                 320
Ala Arg Arg Thr Lys Leu Ala Gly Ala Glu Ala Ser Gly Gly Arg Ser
                325                 330                 335
Val Ala Ala Pro Ser Asp Asn Ala Ala Ile Asp Arg Val Gln Gly Thr
            340                 345                 350
Leu Gln Pro Ala Val Ser Gln Ser Ile Ile Pro Pro Pro Asn Val Leu
        355                 360                 365
Val Gly Thr Asp Met Gly Val Arg Leu Glu Asp Pro Xaa Ala Ala Val
    370                 375                 380
Ser Glu Gly His Ile Leu Asn Thr Asp Ala Asn Pro Ser Glu Xaa Thr
385                 390                 395                 400
Glu Phe Ser Phe Ser Ala Leu Asp Trp Leu Thr Gly Pro Leu Pro
                405                 410                 415
```

<210> 24986
<211> 88
<212> PRT
<213> A.fumigatus

<400> 24986
Ser Ser Arg Arg Met Asp Ser Ser Cys Ser Val Pro Asn Asn Asn Arg
1 5 10 15
Val Met Ala Leu Pro Asp Ser Met Pro Ile Tyr Gly Val Leu Cys Ile
20 25 30
Pro Ser Ala Lys Thr Ser Thr Pro Leu Arg Leu Ser Glu Asp Lys Thr
35 40 45
Gln Ser Thr Leu Ala Leu Pro Val Ile Thr His Leu Gln Asn Ala Leu
50 55 60
Arg Asp Thr Pro Leu Thr Ala Ser Trp Ala Tyr Ala Pro Trp Thr Leu
65 70 75 80
Lys Lys Arg Gly Cys Phe Cys Arg
85

<210> 24987
<211> 62
<212> PRT
<213> A.fumigatus

<400> 24987
Lys Leu Asn Asn Trp Ser Leu Leu Asp Pro Asn Phe Pro Arg Ile Pro
1 5 10 15
Val Ser Ser Pro Trp Ser Gly Gly Leu Thr Leu Gly Ser Leu Asp Gly
20 25 30
Leu Val His Ala Gly Arg Ala Thr Asn Lys Arg Thr Gly Cys Ser Ser
35 40 45
Ser Leu Gly Phe Gly Glu Glu Arg Leu Gln Gly Pro Pro Trp
50 55 60

<210> 24988
<211> 79
<212> PRT
<213> A.fumigatus

<400> 24988
Arg Val Cys Leu Thr Gly Arg Leu Thr Glu Tyr Gln Val Ile Gly Arg
1 5 10 15
His Leu Pro Thr Glu Ala Asn Pro Thr Pro Lys Leu Tyr Arg Met Arg
20 25 30
Ile Phe Ala Pro Asn Pro Val Val Ala Lys Ser Arg Phe Trp Tyr Phe
35 40 45
Leu Thr Gln Leu Arg Lys Val Lys Lys Ala Asn Gly Glu Ile Val Ser
50 55 60
Leu Asn Val Val Cys Leu Leu Trp Glu Arg Ile Val Arg Ser Arg
65 70 75

<210> 24989
<211> 122
<212> PRT
<213> A.fumigatus

<400> 24989
Asp Ser Gly Tyr Ser Thr Gln Ser Ala Met Ala Ser Val Phe Thr Asp
1 5 10 15
Phe Lys Glu Gly Gln Gln Asn Gly Ser Gly Pro Cys Leu Ala Ala Ala
20 25 30
Leu Thr Ser Ile Ala Thr Phe Gln Ser Pro Asp Arg Leu Leu Ser Phe
35 40 45
Tyr Asn Phe Ser Asp Phe Asp His Ile Ser Ala Asp Leu Arg Tyr Ser
50 55 60
Leu Phe Gln Ala Asn Gly Val Lys Leu Pro Lys Gln Glu Gln Asn Gly
65 70 75 80
Trp Val Asp Ile Phe Ala Ala Tyr Trp Lys Ala Val Arg Glu Ile Val
85 90 95
Lys Phe Glu Glu Tyr Thr Pro Val Lys His Leu Trp Ala Gln Gly Leu
100 105 110
Arg Gly Trp Arg Lys Val Trp His Thr Leu
115 120

<210> 24990
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24990
Cys Asn Leu Ala Phe Gln Leu Asn Ser Tyr Glu Ala Glu Ile Arg Val
1 5 10 15
Leu Arg His Glu Leu Glu Ser Arg Gly Val Gln Pro Val Ser Ser His
20 25 30
Leu Ala Gly Pro Ala Gln His Ala Gly Pro Ser Gln Ala Pro Pro Pro
35 40 45
Ala Leu Gly His Gly Pro Ser Asn Leu Phe Gly Gly Ile Met Thr Asn
50 55 60
Gln Gly Gly Ser Gly Pro Gly Leu Ala Pro Pro Pro Pro Gln Asp Gln
65 70 75 80
Gln Pro Pro Gln His Thr Leu Gln Gln Pro Ala Pro Ala Ala Gln Gln
85 90 95
Ser Ala Pro Gln Pro Pro Gln Ser Ser Phe Gly Gly Tyr Gln Pro Gly
100 105 110
Ala Ala Val Asn Gly Met Phe Leu Leu Tyr Leu Leu Met Val Leu Trp
115 120 125
Arg Leu Thr Val Arg Cys Leu Ser Leu Ser Met
130 135

<210> 24991
<211> 76
<212> PRT
<213> A.fumigatus

<400> 24991
Ala Thr Cys Ser Gly Pro Asp Thr Thr Asn Ile Ser Arg Asn Tyr Phe
1 5 10 15
Arg Ser Pro Leu Asn Phe Gly Pro Ile Asn Leu Phe Leu Leu His Tyr
20 25 30
Pro Val Thr Thr Thr Thr Lys Met Gly Leu Ile Thr His Asn Trp Leu
35 40 45
Pro Phe Ala Leu Cys Ile Gly Phe Ala Tyr Ser Arg Ala Ala Ile Thr

```
    50                  55                  60
Pro Gly Val Thr Glu Val Asp Leu Ile Phe Pro Ala
65                  70                  75

<210> 24992
<211> 80
<212> PRT
<213> A.fumigatus

<400> 24992
Ser Pro Ile Ala Leu Ser Cys His Pro Arg Gly Glu Asp Gly Arg Glu
1               5                   10                  15
Thr Asn Trp Arg Val Trp Val Leu Arg Cys Cys Lys Leu Gln Asp Met
            20                  25                  30
Leu His Leu Tyr Arg Asn Ser Gln Asp Trp Gln Asp Phe Ser Asn Leu
        35                  40                  45
Leu Phe Leu Val Leu Arg Gly Ile Val Ala Arg Glu Gln Glu Ala Tyr
    50                  55                  60
Gly Pro Tyr Ser Tyr Tyr Lys Pro Arg Arg Gly His Tyr Thr Ile Leu
65                  70                  75                  80

<210> 24993
<211> 120
<212> PRT
<213> A.fumigatus

<400> 24993
Ala Leu Leu Thr Asn Ser Gly Ala Val Thr Trp Ala Gln Arg Ser Ser
1               5                   10                  15
Ser Ser Asp Pro Glu Arg Asn Tyr Leu Tyr Val Asn Ile Lys Thr Pro
            20                  25                  30
Asp Val Ala Lys Ser Ala Ala Asp Leu Lys Ile Thr Pro Thr Asn Val
        35                  40                  45
Ser Phe Thr Gly Glu Thr Asn Lys Gly Val Lys Tyr His Val Ser Leu
    50                  55                  60
Asp Leu Tyr Ala Glu Ile Asp Pro Glu Asn Ser Lys Val Asn His Thr
65                  70                  75                  80
Asp Arg Glu Val Glu Leu Val Leu Arg Lys Lys Glu Leu Lys Glu Glu
                85                  90                  95
Tyr Trp Pro Arg Leu Val Lys Asp Thr Gln Lys Leu His Phe Leu Lys
            100                 105                 110
Thr Asp Phe Asp Lys Val Trp Arg
        115                 120

<210> 24994
<211> 65
<212> PRT
<213> A.fumigatus

<400> 24994
Ala Leu Leu Ile Phe Asp Leu Lys Glu Gly Cys Thr Ser Leu Glu Tyr
1               5                   10                  15
Thr Val Gly Asp Leu Leu Gly Arg Pro Glu Met His Asn Leu Trp Asn
            20                  25                  30
Asp Asn Leu Ser Gly His Thr Ala Ser Leu Asn Asp Ile Met Lys Tyr
        35                  40                  45
```

```
Ala Ser Phe Asn Ser Leu Ile Pro Pro Asp Lys Leu Arg Leu Val Leu
    50                  55                  60
Pro
65

<210> 24995
<211> 395
<212> PRT
<213> A.fumigatus

<400> 24995
Ser Trp His Leu Cys Phe Ser Trp Tyr Val His Pro Ile Met His Pro
1               5                  10                  15
Gly Pro Phe Ile Leu Ile Phe Phe Phe Leu Cys Thr Asp Gln Ala Tyr
            20                  25                  30
Phe Ile Ala Phe Ser Ile Leu Ile Leu His Thr Asp Val Phe Asn Lys
        35                  40                  45
Asn Asn Lys Arg Lys Met Gln Lys Ser Asp Tyr Val Arg Asn Thr Arg
    50                  55                  60
Gly Glu Gly Val Ser Asp Asp Val Leu Glu Cys Ile Tyr Glu Asn Ile
65                  70                  75                  80
Ala Tyr Thr Pro Phe Ile His Ile Glu Asp Thr Pro Ser His Ser Arg
                85                  90                  95
Gln Leu Ala Lys Pro Arg Arg Pro Leu Phe Lys Thr Pro Ser Ser Glu
            100                 105                 110
His Leu Ser Arg Val Ser Arg Glu Pro Val Asp Pro Tyr Thr Leu Ile
        115                 120                 125
Met Asp Gly Lys Leu Asp Ser Leu Arg Pro Ser Leu Lys Asp Val Met
    130                 135                 140
Asn Leu Glu Asp Thr Tyr Arg Cys His Gly Thr Thr Gly Pro Pro Asp
145                 150                 155                 160
Ile Asn Ser Leu His Gln Ala Phe Ser Lys Thr Ala Ile Leu Gln Ile
                165                 170                 175
Val Ser Ala Arg Ser Arg Pro Asp Ala Phe Met Pro Ala Ser Ile Gln
            180                 185                 190
Asn Pro Ala Glu Ser Asn Pro Gly Leu Val Asp Ile Lys Val Ala Lys
        195                 200                 205
Val Gly Leu Leu Trp Arg Lys Asp Pro Arg Lys Lys Arg Ala Arg Ser
    210                 215                 220
Pro Trp Gln Glu Trp Gly Ala Leu Leu Thr Phe Ser Gln Leu Tyr Phe
225                 230                 235                 240
Phe Arg Asp Val Asn Trp Ile Lys Ser Leu Met Ser Gln Tyr Glu Ser
                245                 250                 255
His Gln Lys Glu Gly Arg Arg Arg Ala Val Val Phe Lys Pro Pro Leu
            260                 265                 270
Thr Glu Phe Lys Pro Asp Gly Ile Met Ser Thr Asp Asp Ala Val Ala
        275                 280                 285
Leu Val Asp Ser Gly Tyr Lys Lys His Lys His Ala Phe Leu Phe Val
    290                 295                 300
Arg His His Ala Leu Glu Glu Val Phe Leu Ala Asn Ser Glu Asp Asp
305                 310                 315                 320
Met Asn Asp Trp Leu Ala Lys Ile Asn Tyr Ala Ala Ala Phe Arg Ser
                325                 330                 335
Thr Gly Val Arg Thr Lys Gly Met Ile Ala Thr Asn Tyr Asp Ala Gln
            340                 345                 350
Arg Asn Arg Met Ser Arg Lys Pro Ser Val Thr Ser Cys Asn Ser His
```

```
        355                 360                 365
Arg Ser Ala Asp Arg Glu Pro Pro Ser Pro Asn Pro Asp Thr His Val
    370                 375                 380
Ser Ser Pro Arg Gly Thr Gly Pro Gln Tyr Val
385                 390                 395

<210> 24996
<211> 280
<212> PRT
<213> A.fumigatus

<400> 24996
Arg Leu Val Cys Pro Met Leu Ala Leu Val Gly Gln Tyr Ile Lys Val
1               5                  10                  15
Lys Arg Gly Ala Ala Met Gly Ile Val Ile Ala Gly Ser Ser Leu Gly
            20                  25                  30
Gly Val Ile Trp Pro Ile Val Ile Asn Glu Leu Leu Lys Lys Pro Thr
        35                  40                  45
Ile Arg Phe Glu Trp Thr Met Arg Ile Val Gly Phe Ile Met Ile Pro
    50                  55                  60
Leu Leu Ala Ile Ser Cys Leu Cys Cys Arg Pro Pro Lys Ile Pro Thr
65                  70                  75                  80
Ala Thr Lys Arg Leu Gln Asp Lys Pro Asp Ala Asn Lys Ala Val Thr
                85                  90                  95
Pro Glu Arg Glu Pro Val Ser Thr Pro Lys Thr Arg Phe Ser Ile Leu
            100                 105                 110
Arg Glu Pro Lys Met Gln Val Thr Cys Leu Ala Phe Phe Ile Thr Tyr
        115                 120                 125
Phe Gly Met Phe Ser Pro Phe Phe Phe Thr Thr Ser Tyr Ala Val Ala
    130                 135                 140
Gln Gly Phe Ser Thr Asp Leu Ser Phe Tyr Thr Ile Ser Ile Ile Asn
145                 150                 155                 160
Gly Ala Ser Leu Phe Gly Arg Ile Ile Pro Gly Ile Leu Ala Asp Arg
                165                 170                 175
Tyr Gly Arg Phe Asn Ile Cys Ile Leu Ala Thr Leu Leu Ser Gly Ile
            180                 185                 190
Ile Ala Leu Cys Trp Thr Thr Ala Thr Ser Val Ala Gly Leu Val Ile
        195                 200                 205
Trp Ser Ala Ala Tyr Gly Phe Thr Ser Gly Val Arg Leu Gly Leu Ala
    210                 215                 220
Leu Val Pro Phe Ile Arg Asn Ala Asp Thr Leu Gln Gly His Ser Leu
225                 230                 235                 240
Pro Ser Thr Ser Leu Cys Ser Pro Asn Cys Asp Thr Lys His Leu Gly
                245                 250                 255
Leu Ile Asn Arg Cys Cys His Gly Ile Tyr Ile Pro Phe Val Cys Thr
            260                 265                 270
Tyr Ile Leu Ser His Thr Gln Ser
        275                 280

<210> 24997
<211> 94
<212> PRT
<213> A.fumigatus

<400> 24997
Asp Arg Glu Leu Met Glu Thr Glu Leu Ile Arg Arg Leu Ile Ser Ser
```

```
1               5                   10                  15
Tyr Phe Asn Ile Val Arg Glu Thr Ile Ala Asp Gln Val Pro Lys Ala
            20                  25                  30
Ile Met His Leu Leu Val Asn His Ser Lys Asp Val Val Gln Asn Arg
        35                  40                  45
Leu Val Ser Glu Leu Tyr Lys Glu Glu Leu Phe Ser Glu Leu Leu Tyr
    50                  55                  60
Glu Asp Asp Gly Ile Lys Ala Glu Arg Glu Lys Cys Glu Arg Leu Leu
65                  70                  75                  80
Glu Thr Tyr Lys Glu Ala Ala Arg Ile Val Gly Glu Val Leu
                85                  90
```

<210> 24998
<211> 133
<212> PRT
<213> A.fumigatus

<400> 24998

```
Ser Ala Cys Pro Ser Ser Pro Val Val Lys Ile Pro Ser Gly Pro Ala
1               5                   10                  15
Thr Asn Ser Asn Ala Val Cys Gly Pro Arg Leu Asp Leu Gly Ile Leu
            20                  25                  30
Gly Tyr Cys Phe Leu Pro Ser Phe Ile Ala His Ile Pro Leu Gln Val
        35                  40                  45
Ala Tyr Leu Phe Leu Asn Ala Leu Thr Gln Tyr Leu Cys Ile Arg Gly
    50                  55                  60
Val His Leu Leu Ser Ala Gln Thr Ser Ser Leu Thr Val Thr Val Val
65                  70                  75                  80
Leu Asn Val Arg Lys Leu Val Ser Leu Leu Leu Ser Ile Tyr Leu Phe
                85                  90                  95
Gly Asn Gln Leu Ser Pro Gly Val Val Ile Gly Ala Ile Cys Val Phe
            100                 105                 110
Ala Gly Gly Gly Leu Tyr Gly Leu Glu Gly Ala Arg Leu Arg Lys Pro
        115                 120                 125
Ile Asn Lys Lys Asp
    130
```

<210> 24999
<211> 139
<212> PRT
<213> A.fumigatus

<400> 24999

```
Glu Met Phe Glu Pro Asn Met Arg Ser Leu Ala Gln Ala Cys Ala Ala
1               5                   10                  15
Ala Ser Asn Trp Leu Trp Asn Phe Leu Ile Ser Arg Phe Thr Pro Gln
            20                  25                  30
Met Phe Ala Lys Met Glu Tyr Gly Val Trp Phe Phe Phe Ala Ser Leu
        35                  40                  45
Met Leu Leu Ser Ile Val Phe Val Phe Phe Leu Val Pro Glu Thr Lys
    50                  55                  60
Gly Ile Pro Leu Glu Ser Met Asp Val Leu Phe Glu Ser Lys Pro Ile
65                  70                  75                  80
Trp Arg Ala His Ala Thr Val Leu Ala Lys Leu Arg Glu Asp Glu Glu
                85                  90                  95
Gln Phe Arg His Asp Ile Glu Glu Ser Gly Tyr Ser Lys Thr Gly Glu
```

```
            100                 105                 110
Gln Gln Val Glu His Leu Phe Gln Glu Ser Pro Lys Val Tyr Pro Val
        115                 120                 125
Phe Gly Ile Leu Gly Gln Val Ser Thr Ile Ser
    130                 135
```

<210> 25000
<211> 302
<212> PRT
<213> A.fumigatus

<400> 25000

```
Tyr Gly Val Ser Glu Thr Leu Ala Pro Ser His Lys Gln Trp Ile Ile
1               5                   10                  15
Pro Phe Ala Val Gln Leu Ile Pro Ser Gly Leu Leu Leu Ile Gly Ala
            20                  25                  30
Val Phe Leu Lys Glu Ser Pro Arg Trp Leu Phe Ser Arg Gly Arg Arg
        35                  40                  45
Glu Asp Ala Ile Lys Asn Leu Cys Trp Ile Arg Gln Leu Pro Ala Asp
    50                  55                  60
His Ile Tyr Met Ile Glu Glu Ile Gly Ala Val Asp Gln Ala Leu Glu
65                  70                  75                  80
Glu Gln Arg Thr Thr Ile Gly Leu Gly Phe Trp Lys Pro Phe Lys Ala
                85                  90                  95
Ala Gly Thr Asn Lys Lys Val Met Tyr Arg Leu Phe Leu Gly Ser Met
            100                 105                 110
Leu Phe Phe Trp Gln Asn Gly Ser Gly Ile Asn Ala Ile Asn Tyr Tyr
        115                 120                 125
Ser Pro Thr Val Phe Lys Ser Ile Gly Leu His Gly Ala Asn Thr Ser
    130                 135                 140
Met Phe Ser Thr Gly Ile Phe Gly Val Val Lys Thr Val Val Thr Phe
145                 150                 155                 160
Val Trp Leu Leu Tyr Leu Ile Asp Arg Val Gly Arg Arg Leu Leu Leu
                165                 170                 175
Leu Ile Gly Ala Ala Gly Ala Ala Val Cys Leu Leu Ile Val Gly Ala
            180                 185                 190
Tyr Ile Lys Ile Ala Asp Pro Ala Ser Asn Pro Thr Gln Glu Met Thr
        195                 200                 205
Gly Gly Gly Ile Ala Ala Met Phe Phe Phe Tyr Leu Tyr Thr Val Phe
    210                 215                 220
Tyr Thr Pro Ser Trp Asn Gly Thr Pro Trp Val Met Asn Ser Val Cys
225                 230                 235                 240
Pro Ser Cys His Leu Ala Ser Ile Val Phe Thr Asn Gln Gly Arg Lys
                245                 250                 255
Cys Ser Ser Pro Thr Cys Ala Pro Leu Arg Arg Pro Ala Arg Pro Arg
            260                 265                 270
Pro Thr Gly Ser Gly Thr Phe Ser Ser Arg Val Ser His Arg Arg Cys
        275                 280                 285
Ser Pro Arg Trp Ser Thr Ala Cys Gly Ser Ser Leu His Leu
    290                 295                 300
```

<210> 25001
<211> 277
<212> PRT
<213> A.fumigatus

<400> 25001
Phe Gly Gly Pro Ser Gln Leu Glu Pro Phe Asp Asp Arg Gly Gly Ile
1 5 10 15
Gln Arg Ala Arg Lys Lys Gly Met Glu Ser Asp Glu Ile Leu Asn Pro
20 25 30
Asn Gln Asn Glu Asn Asn Asp Asn Trp Gly Ala His Val Arg Trp Thr
35 40 45
Gly Pro Gln Ile Leu Lys Gln Leu Pro Glu Ile Asn Val Leu Cys Ala
50 55 60
Gly Met Gly Thr Ser Gly Thr Met Thr Gly Leu Gly Met Phe Phe Lys
65 70 75 80
Glu Asn Lys Pro Ser Val Leu Arg Leu Gly Val Cys Thr Ala Ala Gly
85 90 95
Asp Arg Val Pro Gly Pro Arg Ser Leu Ala Leu Leu Lys Pro Val Glu
100 105 110
Phe Pro Trp Arg Glu Ala Val Asp Ala Ile Glu Glu Val Asn Ser Tyr
115 120 125
Asp Ser Phe Ser Leu Ser Leu Asp Leu Cys Arg Glu Gly Ile Val Cys
130 135 140
Gly Pro Ser Ser Gly Phe Asn Leu Gln Gly Leu Phe Gln Leu Leu Gly
145 150 155 160
Lys Arg Lys Gln Ala Gly Thr Leu Ala Glu Leu Ala Gly Pro Asp Gly
165 170 175
Leu Ile His Cys Val Phe Ile Cys Cys Asp Leu Pro Tyr Gln Tyr Ile
180 185 190
Gly Glu Tyr Phe Ser Lys Leu Gly Glu Glu Lys Phe His Pro Ile Lys
195 200 205
Asn Gln Val Ser Ser Ala Gly Ala His Leu Leu Ile Asn Ala Ile Ile
210 215 220
Leu Thr Pro Ala Glu Ser Gln Arg Ser Arg His Leu Pro Leu Arg Arg
225 230 235 240
Glu Leu Gly Thr Lys Pro His Arg Pro Leu His Ala Phe Leu Arg Asp
245 250 255
Pro Pro Leu Ala Leu Gly Gln Ser Ser Ala Lys His Arg Ala Gln Ala
260 265 270
Thr Leu Leu Arg Ala
275

<210> 25002
<211> 194
<212> PRT
<213> A.fumigatus

<400> 25002
Leu Pro Gln Asn Leu Ser Ala Val Asp Ile Tyr Arg Tyr Asp Glu Ser
1 5 10 15
Trp Glu Arg Ser Pro Ile Val Leu Phe Thr His Phe Tyr Glu Thr Pro
20 25 30
Arg Ser Leu Ser Asp Ser Leu Leu Arg Asn Ile Glu Leu Arg Pro Leu
35 40 45
Cys Cys Val Leu Asp Leu Arg Thr Ala Ala Asp Tyr Ser Thr Trp His
50 55 60
Leu Pro Gly Ser Val Asn Ile Pro Leu Arg Ser Leu Asp Ser His Thr
65 70 75 80
Pro Lys Pro Phe Ala Asp Pro Gly Val Leu Glu Ala Gln Trp Leu Glu
85 90 95

```
Leu Glu Thr Leu Phe Lys Thr Glu Glu Ala Leu Ser Lys Leu Arg Gly
            100                 105                 110
Gln His Val Leu Val Ile Cys Tyr His Gly Asp Thr Ala Arg Val Ala
        115                 120                 125
Thr Ser Val Leu Arg Ala Lys Gly Ile Glu Ala Asp Ser Leu Arg Gly
    130                 135                 140
Gly Tyr Gln Ala Leu Arg Asp His Gly Leu Trp Gly Glu Asn Glu Val
145                 150                 155                 160
Ser Thr Cys Thr Ala Asn Gly Thr Arg Thr Gly Ser Glu His Met Thr
                165                 170                 175
Ser Thr Ile Ser Leu Glu Arg Ser His Gly Pro Asn Ala Gly Lys Lys
            180                 185                 190
Ser Ala
```

<210> 25003
<211> 355
<212> PRT
<213> A.fumigatus

```
<400> 25003
Leu Asn Pro Ser Pro Arg His Pro Ser Ser Pro Val Val Lys Thr His
1               5                   10                  15
Ser Gly Tyr Val Thr Asp Val Phe Pro Phe Val Ala Lys Ser Ser Asn
            20                  25                  30
Leu Leu Val Ala Ser Asn Ser Leu Val Asp Asn Ser Leu Trp Thr Ile
        35                  40                  45
Ile Asp Thr Gln Asp Thr Ser Lys Val Arg Val Ile Ser Ser Ile Gly
    50                  55                  60
Arg Gly Gly Ala Ala Phe Gly Leu Ser Pro Thr Gln Val Asp Glu Ile
65                  70                  75                  80
Trp Phe Lys Gly Ala Glu Asp His Pro Val His Ala Trp Val Val Lys
                85                  90                  95
Pro Ser Asn Phe Gln Pro Gly Asn Lys Tyr Pro Leu Ala Tyr Leu Ile
            100                 105                 110
His Gly Gly Pro Gln Gly Ala Trp Asn Asp Gln Trp Ser Thr Arg Trp
        115                 120                 125
Asn Pro Ala Val Phe Ala Glu Gln Gly Tyr Val Val Ile Thr Pro Asn
    130                 135                 140
Pro Arg Gly Ser Thr Gly Tyr Gly Gln Pro Phe Thr Asp Ala Ile Arg
145                 150                 155                 160
Gly Ser Trp Gly Gly Leu Pro Tyr Ile Asp Ile Glu Lys Gly Leu Asp
                165                 170                 175
Tyr Ile Glu Glu Asn Leu Asp Tyr Val Asp Thr Thr Arg Ala Val Ala
            180                 185                 190
Leu Gly Ala Ser Tyr Gly Gly Tyr Met Met Asn Trp Ile Gln Gly His
        195                 200                 205
Pro Leu Gly Arg Arg Phe Lys Ala Leu Val Thr His Asp Gly Val Phe
    210                 215                 220
Ser Met Thr Ser Gln Leu Ala Ser Glu Glu Gln Tyr Phe Pro Leu His
225                 230                 235                 240
Asp Leu Gly Gly Pro Ile Trp Lys Val Pro Glu Asn Trp Glu Lys Trp
                245                 250                 255
Asp Pro Ser Arg Phe Thr Glu His Trp Gln Thr Pro His Leu Ile Ile
            260                 265                 270
His Asn Glu Leu Asp Tyr Arg Leu Thr Ile Ala Glu Gly Leu Ala Ala
```

```
        275                 280                 285
Phe Asn Val Leu Gln Met Lys Gly Ile Glu Ser Ala Phe Leu Thr Phe
    290                 295                 300
Pro Asp Glu Asn His Trp Val Leu Asn Pro Glu Asn Ser Leu Val Trp
305                 310                 315                 320
His Gln Thr Val Phe Asn Trp Ile Asn Lys Tyr Val Gly Leu Pro Pro
                325                 330                 335
Val Asn Asp Glu Lys Ser Asp Ala Phe Ser Ser Lys Lys Asn Pro Trp
            340                 345                 350
Arg Ser Leu
        355
```

<210> 25004
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25004

```
Gly Asn Ile Leu Ile Lys Tyr Pro Ser Gly Tyr Ile Asn Ile Ile Lys
1               5                   10                  15
Asp Ile Tyr Tyr Ile Pro Lys Leu Gly Ile Asn Leu Ile Ser Ile Asp
            20                  25                  30
Arg Ile Ser Lys Ala Leu Gly Ile Ile Thr Ile Phe Ile Lys Asn Lys
        35                  40                  45
Val Ser Leu Tyr Asn Asn Asn Gln Ser Ile Met Ala Arg Tyr Lys Asn
    50                  55                  60
Asn Ser Leu Tyr Tyr Ile Leu Phe Thr Ile Leu
65                  70                  75
```

<210> 25005
<211> 357
<212> PRT
<213> A.fumigatus

<400> 25005

```
Arg Leu Asp Gly Pro Glu Ser Lys Gln Ile Ser Ala Leu Ser Lys Ile
1               5                   10                  15
Arg Val Gly Gln Lys Leu Asn Asp Leu Leu Val Leu Asp Ile Gln Arg
            20                  25                  30
Ala Arg Arg Leu Ile Lys Val Ser Ala Arg Ala Ser Leu Lys Lys Ala
        35                  40                  45
Ala Lys Gln Gly Ser Leu Pro Ala Lys Phe Glu Asp Ile Gln Glu Gly
    50                  55                  60
Ala Glu Val Thr Gly Phe Val Arg Asn Ile Thr Ser Asp Gly Leu Phe
65                  70                  75                  80
Ile Glu Phe Leu Gly Gly Ile Ile Gly Leu Val Pro Lys Arg Leu Leu
                85                  90                  95
Ala Asp Glu Asn Val Asn Lys Pro Asp Tyr Asp Met Val Lys Ser Gln
            100                 105                 110
Leu Val Thr Ala Thr Val His Ser Ile Asp Arg Asp Phe Gln Arg Phe
        115                 120                 125
Ile Leu Ser Met Lys Pro Ser Glu Ala Thr Ser Ala Gly Pro Lys Lys
    130                 135                 140
Pro Ala Pro Lys Pro Thr Pro Ser Asn Asp Glu Val Thr Asn Ala Val
145                 150                 155                 160
Asp Glu Ser Ile Lys Ser Met Ser Asp Phe Thr Phe Gly Arg Thr Val
```

```
                165                 170                 175
Asn Cys Lys Val Val Ser Val Lys Ala Thr Gln Val Asn Val Gln Leu
            180                 185                 190
Ala Asp Asn Ile Gln Gly Arg Ile Asp Val Ser Glu Val Phe Asp Lys
        195                 200                 205
Trp Glu Asp Ile Lys Asp Arg Lys Gln Pro Leu Arg Phe Phe Arg Pro
    210                 215                 220
Lys Gln Leu Ile Ser Ala Arg Ile Leu Gly Ile His Asp Ala Arg Ser
225                 230                 235                 240
His Lys Phe Leu Pro Ile Ser His Arg Ser Gly Lys Phe Pro Val Phe
                245                 250                 255
Glu Leu Ser Val Lys Pro Ser Phe Leu Gln Ala Ala Asn Pro Ser Pro
            260                 265                 270
Leu Asn Leu Glu Gln Val Gln Val Gly Ser Thr Trp Val Gly Phe Arg
        275                 280                 285
Gln Gln Arg Leu Leu Lys His Gly Leu Arg Ile Gln Pro Pro His Pro
    290                 295                 300
Met Phe Arg Gly Lys Thr Thr Phe Ser Trp Asp Ala Phe Arg Met Thr
305                 310                 315                 320
Cys Ser Pro Phe Gly Arg Ile Trp Lys Asn Ser Phe Pro Gln Ser Gly
                325                 330                 335
Pro Thr Ala Lys Lys Cys His Phe Ser Gly Arg Trp Lys Pro Gln Lys
            340                 345                 350
Arg Val Pro Phe Lys
        355
```

<210> 25006
<211> 184
<212> PRT
<213> A.fumigatus

<400> 25006

```
Ser Lys Pro Thr Pro Thr Pro Lys Ser Phe Cys Gln Pro Val Met Trp
1               5                   10                  15
Thr His Gly Met Arg Met Cys Cys Cys Thr Ser Leu Phe Arg Arg Glu
            20                  25                  30
Phe Lys Ser Asn Lys Phe Cys Ser Ser Val Met Lys Thr Val Tyr Trp
        35                  40                  45
Arg Val Thr Asp Pro Glu His Arg Phe Val Ser His Phe Ser Trp Ala
    50                  55                  60
Ala Ser Met Tyr Tyr Pro Met Leu Asn Lys Phe Phe Glu Thr Phe Phe
65                  70                  75                  80
Arg Gly Asp Phe Pro Asn Lys Gly Lys Gln Val Tyr Leu Asp His Val
                85                  90                  95
Glu Glu Val Arg Ser Leu Val Pro Pro Glu Arg Leu Leu Glu Tyr Gln
            100                 105                 110
Ile Lys Asp Gly Trp Gly Pro Leu Cys Glu Phe Leu Gly Glu Glu Val
        115                 120                 125
Pro Asp Thr Pro Phe Pro Arg Gly Asn Asp Met Ala Asp Phe Phe Asn
    130                 135                 140
Arg Cys Arg Thr Arg Asn Arg Arg Gln Met Met Asn Ala Ala Leu Gln
145                 150                 155                 160
Ala Phe Thr Met Gly Gly Ala Leu Leu Ala Thr Gly Val Ala Ala Ala
                165                 170                 175
Met Val Phe Lys Arg Phe Ser Arg
            180
```

<210> 25007
<211> 116
<212> PRT
<213> A.fumigatus

<400> 25007
Ile Gln Ala Leu Cys Gln Pro Ser Asp Gly Leu Leu Ala Leu Arg Lys
1 5 10 15
Ala Leu Glu Arg Leu Gly Tyr Val Lys Cys Tyr His Met Met Ser Ala
20 25 30
Ser Val Glu Asn Pro Pro Asp Cys Leu Met Trp His Asp Ala Leu Cys
35 40 45
Ala Lys Tyr Asp Gly Val Gly Glu Phe Gly Arg Lys Glu Trp Asp Gln
50 55 60
Leu Leu Gly Asp Cys Gln Val Cys Leu Asp Asp Arg Arg Asp Arg Arg
65 70 75 80
Asn Ala Thr Ala Asp Pro Ser Pro Gly Cys Leu Arg Leu Ala Cys Leu
85 90 95
Cys Leu Arg Arg Arg Val Asp Arg Ser Leu Pro Gln Arg Gln Ser His
100 105 110
Ser Val Asn Pro
115

<210> 25008
<211> 94
<212> PRT
<213> A.fumigatus

<400> 25008
Cys Gly Thr Met Leu Ser Ala Pro Asn Thr Thr Val Trp Ala Ser Leu
1 5 10 15
Ala Glu Arg Asn Gly Ile Ser Cys Trp Glu Thr Ala Arg Tyr Ala Trp
20 25 30
Thr Ile Glu Glu Ile Glu Glu Met Gln Pro Leu Ile Pro Leu Gln Ala
35 40 45
Val Cys Asp Trp Pro Ala Cys Ala Phe Ala Glu Glu Leu Ile Glu Ala
50 55 60
Tyr Pro Asn Ala Lys Val Ile Leu Ser Thr Arg Asp Val Asp Ser Trp
65 70 75 80
His Ala Tyr Val Leu Leu Tyr Lys Ser Ile Gln Lys Arg Val
85 90

<210> 25009
<211> 106
<212> PRT
<213> A.fumigatus

<400> 25009
Leu Ile Ser Ile Met Val Ile Phe Ile Ser Ser Leu Met Val Val Ala
1 5 10 15
Thr Asn Gln Ser Phe Ile Phe Met Lys Thr Thr Leu Ser Ala Met Ile
20 25 30
Asp Leu Asp Arg Leu Val His Gly Val Gly Ser Thr Cys Asp Phe Arg
35 40 45
Leu Leu Gly Pro Trp Leu Asp Gly His Glu Ala Glu Glu Arg Arg Pro

```
    50                  55                  60
Leu Ser Val Met Arg Ser Phe Val His Met Leu Ile Met Val Gly Tyr
65                  70                  75                  80
Leu Lys Met Ile Phe Asp Trp Phe Gln Ser Ser Leu Ala Asp Ser Thr
                85                  90                  95
Tyr Gln Phe Ile Asn Ser Ser Ala Lys Arg
            100                 105
```

<210> 25010
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25010

```
Cys Pro Leu Gly Ile Cys His Leu Val Ser Val Ala Gly Phe Ser Pro
1               5                   10                  15
Ile Ser Thr Thr Asn Gly Tyr Ser Asp Asn Ala Gly Ile Leu Gly Ile
            20                  25                  30
Thr Val Lys Ser Asn Lys Ser Leu Ile Gly Ser Gly Ser Ser Gly Val
        35                  40                  45
Ile Lys Gly Lys Gly Leu Arg Ile Val Ser Gly Ala Ser Asn Ile Ile
    50                  55                  60
Ile Gln
65
```

<210> 25011
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25011

```
Ser Arg Val Arg Val Cys Gly Leu Ser Ala Gly Arg Ala Thr Leu Ser
1               5                   10                  15
Ser Ser Lys Phe Thr Cys Ser Met Trp Ser Lys Ile Ile Ile Asp Pro
            20                  25                  30
Cys Arg Asn Ile Ala Ile Thr Asp Ile Asn Pro Lys Tyr Val Trp Gly
        35                  40                  45
Gly Asp Ala Ile Thr Ile Asp Asn Ala Asp Met Val Trp Ile Asp His
    50                  55                  60
Val Thr Val Ser Ser Pro Gly Pro Ile Leu Phe Gly Ser Leu
65                  70                  75
```

<210> 25012
<211> 160
<212> PRT
<213> A.fumigatus

<400> 25012

```
Arg Phe Glu Pro Gly Asp His Leu Gln Gln Leu Leu Gln Arg Ser Gln
1               5                   10                  15
Gln Leu Leu Arg His Leu Arg Arg Leu Pro Leu Leu Gly His Leu Pro
            20                  25                  30
Gly Trp Ile Gln Arg Ser Gly His His Glu Arg Gln Leu Tyr Leu Pro
        35                  40                  45
Phe Gln Trp Pro Gln Ser Gln Ser Pro Gly Gln His Pro Ser Pro Arg
    50                  55                  60
```

Gly Lys Leu Leu Thr Phe Phe Ser Lys His Asn Leu Thr Asn Gln Val
65 70 75 80
Asn Asn Tyr Trp Tyr Asp Ser Ser Gly His Ala Phe Glu Ile Gly Ser
85 90 95
Gly Gly Tyr Val Leu Ala Glu Gly Asn Val Phe Gln Asn Ile Asp Thr
100 105 110
Ile Val Gln Ser Pro Val Asp Gly Gln Leu Phe Thr Ser Pro Asp Ser
115 120 125
Asn Thr Asn Lys Val Cys Ser Thr Tyr Leu Gly His Val Cys Gln Val
130 135 140
Asn Gly Phe Gly Ser Ser Gly Thr Phe Ser Gln Gly Leu His Asp Gly
145 150 155 160

<210> 25013
<211> 113
<212> PRT
<213> A.fumigatus

<400> 25013
Phe Cys Gly Val Thr Asn Leu His Pro Asn Asn Gly Leu Ala Thr Arg
1 5 10 15
Leu Gln His Ile Asn Arg Leu Arg Ala Thr Ala Trp Glu Asp Arg Leu
20 25 30
Asn Leu Leu Lys Thr Lys Met Lys Tyr Gln Asp Leu Leu Ala Ile Ala
35 40 45
Gly Cys Ile Ala Asn Ala Gly Ala Val Ser Val Ser Gly Ala Ala Glu
50 55 60
Gly Phe Ala Lys Gly Val Thr Gly Gly Gly Ser Ala Thr Ala Val Tyr
65 70 75 80
Pro Ser Thr Thr Ala Glu Leu Val Ser Tyr Leu Gly Asp Ser Glu Ala
85 90 95
Arg Val Ile Val Leu Thr Lys Thr Tyr Ala Phe Ile Glu Ile Ala Leu
100 105 110
Leu

<210> 25014
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25014
Thr Ala Arg Ile Gly Arg Gln His Leu Val Leu Gly Thr Ser Ala Ser
1 5 10 15
Asn Arg Val Thr Ile Ser Asn Asn Tyr Phe Asn Gly Val Ser Ser Tyr
20 25 30
Ser Ala Thr Cys Asp Gly Tyr His Tyr Trp Gly Ile Tyr Leu Asp Gly
35 40 45
Ser Asn Asp Leu Val Thr Met Lys Gly Asn Tyr Ile Tyr His Phe Ser
50 55 60
Gly Arg Ser Pro Lys Val Gln Gly Asn Thr Leu Leu His Ala Val Ser
65 70 75 80
Ser Ser Pro Ser Phe Pro Ser Thr Ile
85

<210> 25015

<211> 188
<212> PRT
<213> A.fumigatus

<400> 25015
Leu Pro His Ala Phe Pro Leu Phe Thr Ala Pro Phe Pro Arg Thr Leu
1 5 10 15
His Ala Lys Met Ser Val Leu Arg His Gly Gly Ser Tyr Leu Gln Arg
20 25 30
Arg Leu Thr Lys Met Tyr Thr Asp Thr Lys Thr Ala Cys Glu Ser Val
35 40 45
Thr Thr Ala Ser Lys Ala Val Asp Asp Pro Glu Leu Val Ala Leu His
50 55 60
Arg Ser Phe Arg Thr Gln Arg Asp Arg Leu Leu Ala Trp Gly Leu Asp
65 70 75 80
Trp Ser Asp Ala Ser Ala Ala Gln Pro Asn Asp Ile Asp Glu Ser Leu
85 90 95
Thr Gln Ala Gly Phe Ser Asp Val Val Glu Ser Val Met Ser Ser Ile
100 105 110
Gln Glu Leu Leu Ser Glu Ala Glu Arg Ile Gln His Gly Gly Ser Ser
115 120 125
Asp Leu Pro Pro Lys Gly Ala Gln Lys Asp Ser Thr Ser Lys Asp Ser
130 135 140
Leu Pro Ala Leu Pro Val Lys Thr His Trp Thr His Glu Asp Ile Thr
145 150 155 160
Arg Ser Lys Ser Leu Leu Ala Asp Leu Thr Ala Cys Ile Asp Thr Leu
165 170 175
Tyr Asp Leu Ser Arg Ser Arg Arg Thr Met Thr Ser
180 185

<210> 25016
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25016
Asp Lys Phe Asn Cys Ser Lys Thr Thr Glu Tyr Pro Arg Arg Asp Phe
1 5 10 15
Glu Asn Phe Lys Trp Asn Ala Asp Ser Val Ser Leu Cys Ser Asp Leu
20 25 30
His Pro Asp Pro Tyr Tyr Lys Pro Gly Ser Ser Ser Asp Asp Gly Ala
35 40 45
Pro Cys His Arg Gly Lys Gly Ser Ala Gly Tyr Phe Gly Ala Glu Gly
50 55 60
Ser Asp Cys Asp Ser Pro Phe Ser Leu Ile Asn Glu Thr Phe Ser Trp
65 70 75 80
Ile Glu Lys Asn Leu Lys Gly Asn Ile Asp Phe Val Leu Trp Thr Gly
85 90 95
Asp Ser Ala Arg His Asp Asn Asp Gln Lys Ile Pro Arg Thr Glu Asp
100 105 110
Glu Val Val Arg Leu Asn Glu Met Leu Ala Asn Lys Phe Val Asp Val
115 120 125
Phe Arg Asp Arg Gln Phe Pro Asn Gly Leu Ser Ile Pro Ile Val Pro
130 135 140
Thr Ile Gly Asn Asn Asp Ile Met Pro His Asn Ile Phe Arg Gly Ser
145 150 155 160

```
Pro Asn Arg Trp Thr Lys Arg Leu Gln Lys Ile Trp Arg Gln Phe Ile
                165                 170                 175
Pro Glu His Glu
            180

<210> 25017
<211> 210
<212> PRT
<213> A.fumigatus

<400> 25017
Asn Arg Ser Pro Leu Gly Val Gly Ser Cys Ile Ala Ala Ile Leu Asn
1               5                   10                  15
Gly Lys Leu Leu Asp Phe Asn Tyr Arg Arg Ile Ala His Lys Met Gly
            20                  25                  30
Met Pro Val Asp Arg Lys Lys Gly Asp Asp Leu Arg Gly Phe Pro Ile
        35                  40                  45
Glu Lys Ala Arg Leu Gln Ala Phe Phe Pro Leu Met Ala Leu Gly Val
    50                  55                  60
Ala Ala Phe Ile Pro Tyr Gly Trp Val Leu Gln Gln Gly Ala Pro Leu
65                  70                  75                  80
Ala Val Pro Leu Val Leu Gln Phe Ile Ile Gly Phe Ser Phe Ile Ala
                85                  90                  95
Ser Leu Asn Thr Leu Ser Thr Leu Met Val Asp Leu Phe Pro Asp Arg
            100                 105                 110
Ala Ser Thr Ala Ser Ala Ala Ser Asn Leu Val Arg Cys Trp Leu Gly
        115                 120                 125
Ala Val Gly Ala Ala Val Ile Asp His Met Leu Asn Ala Met Gly Trp
    130                 135                 140
Gly Trp Cys Phe Val Phe Trp Gly Leu Leu Met Leu Val Gly Leu Gly
145                 150                 155                 160
Leu Leu Leu Val Glu Tyr His Arg Gly Met Gln Trp Arg Leu Ala Arg
                165                 170                 175
Leu Ala Lys Leu Asp Gln Arg Gln Val Glu Lys Glu Thr Gln Lys Ala
            180                 185                 190
Ala Ser Glu Asn Lys Glu Ala His Gly Asp Glu Asn Glu Ala Asn Ser
        195                 200                 205
Asp Thr
    210

<210> 25018
<211> 229
<212> PRT
<213> A.fumigatus

<400> 25018
Arg Pro Ala Tyr Ile Leu Ala Ser Thr Val Tyr Leu Ala Ala Asn Ile
1               5                   10                  15
Gly Phe Ala Leu Gln Asn Ser Tyr Val Ala Leu Met Val Leu Arg Cys
            20                  25                  30
Ile Gln Ser Ala Gly Ser Ser Gly Thr Ile Ala Phe Gly Tyr Gly Val
        35                  40                  45
Val Ala Asp Ile Ala Thr Ala Ala Glu Arg Gly Ser Phe Ile Gly Pro
    50                  55                  60
Val Ser Ala Gly Val Met Val Ala Pro Ala Leu Gly Pro Val Ile Gly
65                  70                  75                  80
```

```
Gly Ile Leu Ala Lys Phe Leu Gly Trp Arg Ser Val Phe Trp Phe Leu
                85                  90                  95
Val Ile Ile Ser Gly Gly Tyr Leu Val Val Phe Met Thr Thr Met Pro
            100                 105                 110
Glu Thr Asn Arg Asn Ile Val Gly Asn Gly Ser Val Pro Pro Asp Gln
        115                 120                 125
Trp Trp Arg Met Ser Val Ile Gln Tyr Leu Ala Ala Arg Arg Arg Leu
    130                 135                 140
Gln Lys Met Thr Thr Glu Glu Arg Ile Ala His Gln Gln Gln Arg Ala
145                 150                 155                 160
Asn Leu Asn Gln Ala Arg Gly His Gln Lys Leu Ser Phe Pro Asn Pro
                165                 170                 175
Leu Lys Ala Phe Val Ile Leu Leu Glu Lys Asp Ala Phe Ile Val Val
            180                 185                 190
Ser Tyr Val Gly Leu Ala Met Leu Ala Asn Thr Ala Leu Leu Thr Ser
        195                 200                 205
Thr Pro Asn Leu Phe Gly Lys Leu Tyr Gly Phe Asn Asp Leu Gln Ile
    210                 215                 220
Gly Leu Cys Tyr Met
225
```

<210> 25019
<211> 649
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (397)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25019
Glu Gly Phe Gly Asn Met Glu Leu Lys Glu Thr Thr Ser Gly Leu Pro
1               5                  10                  15
Glu Glu Val Leu Leu Ser Lys Val Glu Ser Phe Ser Thr Arg Phe Ser
            20                  25                  30
Gly Thr Phe Gln Thr Pro Val Arg Ser Phe Lys Pro Ser Arg Arg Val
        35                  40                  45
Lys Ile Ile Thr Leu Cys His Ser Glu Cys Glu Ile Thr Gln Asn Gly
    50                  55                  60
Asn Ser Val Ala Leu Ala Leu Tyr Leu Leu Asp Gln Asp Ala Glu Ser
65                  70                  75                  80
Met Thr Val Val Asn Leu Arg Ala Asp Arg Val Ala Leu Pro Lys Lys
                85                  90                  95
Asp Ala Val Thr Ala Lys Lys Gln Arg Lys Lys Ala Ser Ser Glu Glu
            100                 105                 110
Arg Ser Leu Leu Val Gln Ala Thr Gly Ile His His Phe Ala Asn Ile
        115                 120                 125
Gln Asp Ala Cys Arg Val Val Asp Gly His Thr Ser Arg Ile Leu Thr
    130                 135                 140
Leu Gly Ala Ala His Asn Gly Asp Asn Glu Leu Tyr Leu Gln Ser Pro
145                 150                 155                 160
Trp Ser Asn Pro Ile Lys Ile Asp Ile Pro His Ser Leu Met Leu Tyr
                165                 170                 175
Glu Arg Tyr Gly Val Ser Ser Ser Thr Ser Ala Asn Arg Pro Arg Asp
            180                 185                 190
```

```
Ser Gly Met Asn Arg Ile Met Ala Asp Ser Pro Ile Ser Ile Ser Gly
        195                 200                 205
Leu Asp His Pro Ser Val Arg Gly Lys Phe Asp Val Ile Asp Ala Thr
    210                 215                 220
Lys Arg Arg His Lys Leu Gln Ile Gln Met Glu Pro Ser Asn Glu Leu
225                 230                 235                 240
Val Lys Asp Ile Ile Gln Ile Cys Lys Phe Val Leu Arg Gly Phe Glu
                245                 250                 255
Lys Ala Gly Asp Gly Ile Leu Ala Gly Trp Trp Glu Thr Val Lys Trp
            260                 265                 270
Leu Arg Ala Arg Gly Thr Gly Glu Thr Asp Leu Glu Trp Thr Ala Met
        275                 280                 285
Ile Ile Val Leu Phe Ala Met Ala Leu Gln Phe Ile Asp Ser Asp Gln
    290                 295                 300
Thr Pro Val Lys Gln Ala Arg Arg Lys Lys Gly Leu Leu Arg Ser Ser
305                 310                 315                 320
Ser Gly Ser Tyr Val Asp Leu Glu Ser Trp Glu Ala Met Leu Asp Lys
                325                 330                 335
Glu Ser Ser Ser Cys Gly Val Val Ala Pro Trp Met Ala Ser Ser Ser
            340                 345                 350
Trp Gly Trp Ile Leu Glu Gln Asp Ala Glu His Asp Ala Val Lys Ser
        355                 360                 365
Gln Gly Met Asn Ala Arg Lys Thr Asp Gln Gln Ala Ser Lys Gly Ser
    370                 375                 380
Thr Phe Arg Thr Asn Thr Tyr Leu Phe Arg Cys Ile Xaa Leu Ala Arg
385                 390                 395                 400
Glu Phe Leu Arg Thr Pro Gln Gly Asn Ser Thr Ile Gly Pro Asn Gly
                405                 410                 415
His Leu Pro Thr Ala Leu Ser Cys Asn Asp Thr Leu Arg Arg Thr Ala
            420                 425                 430
Leu Cys Thr Ile Val Val Gly Leu His Leu Phe Arg Glu Glu Gln Lys
        435                 440                 445
Leu Ser Ile Cys Asp Ala Glu His Glu Arg Lys Pro Leu Gly Leu Leu
    450                 455                 460
Ala Pro Val Leu Ala Gln Ile Gly Gly Trp Leu Gly Trp Thr Ser Trp
465                 470                 475                 480
Thr Trp Ala Asp Asn Ala Tyr Tyr Gly Ser Glu Met Ala Ser Met Glu
                485                 490                 495
Arg Trp Gln Phe Glu Ala Ser Arg Ile Ser Met Met Asp Ile Pro Pro
            500                 505                 510
Glu Pro Phe Ala Pro Pro Ser Ile Phe Ala His Leu Glu Thr Ala Trp
        515                 520                 525
Gly Gln Arg Ser Ser Pro Phe Phe Thr Leu Leu Asp Leu Val Ser Thr
    530                 535                 540
Ser Glu Ser Ala Pro Arg Asn Gly Arg Leu Trp Gln Glu Cys Phe Arg
545                 550                 555                 560
Leu Thr Pro Arg Thr Leu Ala Leu Asn Gly Leu Leu Ser Glu Ile His
                565                 570                 575
Asp Ile Ser Ser Ser Phe Asp Arg Val Lys Leu Leu His Arg Trp Gly
            580                 585                 590
Leu Thr Arg Asn Val Val Glu Thr Phe Pro Gln Ser Val Ser Thr Pro
        595                 600                 605
Leu Tyr Glu Ala Ile Met Arg Thr Pro Thr Gln Ala Ser Cys Ser Trp
    610                 615                 620
Asn Cys Asn Leu Leu Lys Leu Val Gln Arg Tyr Asp Leu Ser Met Ser
625                 630                 635                 640
```

Leu Asp Met Asp Thr Phe Phe Ser Pro
645

<210> 25020
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25020
Pro Thr Ile Trp Thr Leu Asp Phe Asp Asn Ser Asp Asp Lys Thr Gly
1 5 10 15
Ala Glu Ser Leu Arg Pro Leu Ser Thr Tyr Ser Arg Met Met Leu Met
20 25 30
Tyr Leu Lys Gly Glu Met Lys Ser Gly Glu Asp Asp Ser Cys Ser Pro
35 40 45
Tyr Gly Ala Gly Cys Glu Arg Gln Leu His Tyr Gln Met Leu
50 55 60

<210> 25021
<211> 208
<212> PRT
<213> A.fumigatus

<400> 25021
Lys Ala Ala Ser Ser Asp Gln Ser Ser Leu Leu His Leu Cys Arg Met
1 5 10 15
His Pro Ser Ala Leu Leu Gly Leu Leu Ala Phe Thr Val Ala Ala Ser
20 25 30
Ala Ile Pro Ala Pro Pro Ala Ser Ala His Ser Lys His Ser Ile Asn
35 40 45
Asn Phe Lys Ser Lys Ile Lys Asn Val Val Ile Leu Val Met Glu Asn
50 55 60
Arg Ser Phe Asp Asn Leu Leu Gly Gly Gln Lys Leu Lys Gly Leu Glu
65 70 75 80
Asn Pro Val Asn Thr Gly Pro Tyr Cys Asn Pro Tyr Asn Leu Thr Asp
85 90 95
Pro Ser Gln Gly Val Ala Cys Ser Ala Ala Lys Asp Phe Asp Ser Ile
100 105 110
Thr Asn Asp Pro Asp His Ala Ile Tyr Gly Asn Asn Ile Glu Phe Tyr
115 120 125
Gly Thr Phe Asn Pro Asp Asn Thr Gln Ile Ala Glu Gly Lys Leu Val
130 135 140
Pro His Asn Gln Gly Phe Val His Glu Gln Val Arg Lys Tyr Gly Ala
145 150 155 160
Lys Val Asn Lys Thr Val Leu Ala Thr Gln Val Met Asn Tyr Tyr Thr
165 170 175
Glu Glu Gln Val Pro Val Leu Thr Ser Leu Val Gln Asn Tyr Leu Thr
180 185 190
Phe Asn His Trp His Ser Asp Ile Pro Gly Val Ser Ile Leu Cys Leu
195 200 205

<210> 25022
<211> 74
<212> PRT
<213> A.fumigatus

<400> 25022
Leu Thr Leu Gln Asn Thr Asn Pro Asn Arg Ala Ala Leu Val Ser Gly
1 5 10 15
Thr Ser Leu Gly His Gly Leu Asn Asp Ala Ala Phe Thr Lys His Glu
20 25 30
Phe Pro Gln Arg Ser Ile Phe Gln Gln Leu Thr Glu Thr Gly His Ser
35 40 45
Trp Ile Asn Tyr Val Asp Pro Ala Gly Gly Thr Gly Pro Asp Ala Gly
50 55 60
Tyr Phe Asn Trp Thr Tyr Val Phe Thr Tyr
65 70

<210> 25023
<211> 335
<212> PRT
<213> A.fumigatus

<400> 25023
Leu Pro Thr Arg Pro Leu Gln Ile Gln Arg Ser Arg Asn Arg Tyr Val
1 5 10 15
Ser Pro Phe Leu Asp Asn Pro Ala Met Gln Asn Cys Glu His Thr Asn
20 25 30
Ala Asp Phe Phe Leu Ala Tyr Glu Ser Leu Ser Leu Tyr Glu Asp Ala
35 40 45
Tyr Lys Cys Tyr His Leu Ala His Leu Trp Arg Glu Ser Leu Tyr Cys
50 55 60
Ala Leu Met Val Pro Leu Ser Glu Ala Asp Leu Thr Ala His Ala Leu
65 70 75 80
Ala Leu Thr Thr Thr Leu Thr Glu Glu Ser Arg Asp Tyr Val Ser Ala
85 90 95
Ala Gln Ile His Ala Glu His Leu His Asp Ile Pro Ala Ala Ala Arg
100 105 110
Leu Leu Cys Arg Gly Ser Arg Phe Ala Asp Ala Thr Arg Ile Leu Thr
115 120 125
Leu His Gly Lys Lys Asp Leu Ile Pro Glu Ile Val Asp Thr Gly Leu
130 135 140
Ala Asp Ala Met Gly Val Thr Thr Asp Leu Leu Ala Asp Phe Arg Ser
145 150 155 160
Gln Leu Asn Ala Gln Val Pro Arg Ile Arg Glu Leu Arg Glu Arg Arg
165 170 175
Ala Ala Asp Pro Leu Ala Tyr Phe Gly Gly Asp Pro Thr Thr Asp Asp
180 185 190
Leu Gly Val Asp Ile Pro Asp Asn Val Ser Leu Ala Pro Thr Asp Ala
195 200 205
Ser Thr Leu Ala Gly Arg Thr Met Phe Thr Arg Tyr Thr Gly Lys Thr
210 215 220
Ala Ser Ser Arg His Thr Ser Lys Thr Arg Arg Arg Glu Glu Arg Lys
225 230 235 240
Arg Ala Arg Gly Lys Lys Gly Thr Val Tyr Glu Glu Glu Tyr Leu Val
245 250 255
Asn Ser Val Arg Arg Leu Ile Glu Arg Val Asn Ser Thr Val Pro Glu
260 265 270
Val Glu Thr Leu Val Asp Ala Leu Leu Arg Arg Gly Met Arg Glu Arg
275 280 285
Ala Val Ala Ile Glu Lys Ala Met Gln Glu Val Leu Lys Met Cys Ala
290 295 300

```
Gln Ser Arg Glu Glu Val Phe Gly Ala Leu Glu Gln Asn Glu Ser Glu
305                 310                 315                 320
Lys Asp Ala Ala Val Leu Lys Pro Gly Leu Glu Gly Asn Ala Leu
                325                 330                 335
```

<210> 25024
<211> 119
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25024

```
Ser Ala Asp Pro Ser Thr Pro Val Val Lys Met Ala Asn Glu Ser Leu
1               5                   10                  15
Ile Ser Arg Arg Thr Xaa Arg Glu Tyr Leu Pro Phe Leu Arg Lys Leu
            20                  25                  30
Gln Gln Leu Pro Glu Asp Arg Arg Arg Phe Glu Ile Asp Asn Tyr Leu
        35                  40                  45
Gly Arg Trp Ala Lys Ala Leu Lys His Leu His Ala Leu Asn Ala Tyr
    50                  55                  60
Asp Glu Ile Arg Val Tyr Val Ile Lys His Gly Leu Tyr Lys Glu Ala
65                  70                  75                  80
Ile Asp Leu Phe Lys Tyr Gln Pro Glu Gln Leu Arg Asp Ile Thr His
                85                  90                  95
Ile Tyr Ala Asp Phe Leu His Asp His Ser Lys Tyr Lys Glu Ala Gly
            100                 105                 110
Ile Gly Thr Ser Leu His Phe
        115
```

<210> 25025
<211> 383
<212> PRT
<213> A.fumigatus

<400> 25025

```
Thr Leu Val Leu Pro Ala Gly Val Val Lys Thr Met Ile Asn Arg Ser
1               5                   10                  15
Ile Ile Gly Arg Pro Met Pro Asn Gly Pro Val Tyr Leu Leu Gln Pro
            20                  25                  30
Asp Thr Leu Leu Pro Val Glu Glu Glu Gly Glu Glu Gly Glu Ile Ala
        35                  40                  45
Ile Ala Gly Val Gly Leu Ala His Gly Tyr Tyr Arg Asn Ala Ala Leu
    50                  55                  60
Thr Ala Glu Lys Phe Ile Glu Trp His Gly Lys Arg Val Tyr Arg Thr
65                  70                  75                  80
Gly Asp Gln Gly Arg Trp Thr Arg Arg Asn Asp Gly Gln Arg Val Val
                85                  90                  95
Glu Phe Arg Gly Arg Ser Asp Arg Thr Val Lys Asn Arg Gly Phe Leu
            100                 105                 110
Val Asn Leu Pro Ala Asp Val Glu Glu Pro Leu Arg Gln Met Gly Phe
        115                 120                 125
Gly Val Thr Asp Val Tyr Ala Ser Leu Ile Asn Gly Leu Leu Val Ala
```

```
    130                 135                 140
Leu Val Thr Pro Ala Thr Ala Asp Leu Asp Gly Leu Gln Ser Glu Ala
145                 150                 155                 160
Asp Arg Arg Leu Ser Ser Phe His Arg Pro Gly Arg Tyr Leu Ala Val
                165                 170                 175
Asp Gln Phe Pro Leu Ser Ala Asn Gly Lys Ile Asp Thr Lys Ala Ile
            180                 185                 190
Glu Asn Met Leu Lys Glu Tyr Gln Ala Arg Leu Cys Glu Gly Thr Asp
        195                 200                 205
Asp Glu Glu Thr Thr Gly Gly Glu Arg Pro Thr Glu Arg Glu Gln Val
    210                 215                 220
Ile Ala Glu Cys Met Tyr Thr Ala Leu Gly Leu Asp Leu Pro Ser Ala
225                 230                 235                 240
Ser Ala Ser Lys Asp Phe Asn Phe Phe Ala Met Gly Gly Asn Ser Leu
                245                 250                 255
Ala Ala Leu Arg Phe Thr Ser Leu Cys Arg Glu Arg Gly Ile Leu Leu
            260                 265                 270
Thr Thr Arg Asp Leu Tyr Leu His Pro Thr Val Arg Gly Ile Leu Pro
        275                 280                 285
Tyr Ala Arg Asp Leu Ala His Ser Gly Leu Pro Leu Pro Asp Lys Glu
    290                 295                 300
Glu Gln Ile Asp His Arg Leu Ser Leu Lys Ala Glu Val Ala Ala Ala
305                 310                 315                 320
Leu Pro Leu Leu Gly Asp Ile Asp Val Ala Pro Leu Thr Pro Leu Gln
                325                 330                 335
Leu Gln Leu Ser Ala Pro Ile Phe Gln Ser Asp Gly Thr Asn Thr Asn
            340                 345                 350
Gln Leu Arg Gln Ser Tyr Pro Leu Ala Ser Ser Glu Gln Met Ser Asn
        355                 360                 365
Ala Tyr Cys Ser Arg Ala Ala Gly Arg Ser Gly Asp Pro Pro Lys
    370                 375                 380
```

<210> 25026
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25026

```
Arg His Glu Asn Pro Ile Glu Leu Asn Asn Gln Asp Met Thr Gly Thr
1               5                   10                  15
Phe Ile Leu Arg Gly Arg Leu Asp Val Pro Tyr Glu Tyr Thr Val Arg
            20                  25                  30
His Met Arg Asp Gly Ser Met Tyr Cys Thr Arg Ala Val Asp Ala Arg
        35                  40                  45
Gln Asn Gly Lys Ile Cys Phe Ser Cys Leu Cys Ser Phe Lys Arg Ser
    50                  55                  60
Glu Gly Gln Gln Thr Phe His His Gln Pro Gly Pro Ala Gln Glu Arg
65                  70                  75                  80
Phe Arg Ala Leu Leu Ala Gly Lys Lys Pro Glu Asp His Pro Arg Ser
                85                  90                  95
Pro Ser Val Asp Ala Asp Trp Trp Ile Glu Gln Val Gln Arg Gly Asn
            100                 105                 110
Ile Ala Glu Pro Glu Phe Pro Gly Leu Asp Val Arg Asn Val Asp Met
        115                 120                 125
Thr Ser Tyr Asn Ala Thr Glu Glu Val Lys Gln Ser Pro Glu Lys Tyr
    130                 135                 140
```

```
Arg Gln Leu Thr Leu Tyr Ala Leu Lys Gly Ser Pro His Asp Ser Asn
145                 150                 155                 160
Val Ala Leu Ser Lys Gln Asp Leu Lys Ala Arg Glu Gln Thr Gly Glu
                165                 170                 175
Phe Asp Asn Leu
            180
```

<210> 25027
<211> 99
<212> PRT
<213> A.fumigatus

<400> 25027

```
Glu Asp Gly Ile Gln Val Leu Arg Ser Gly Gly Val Val Arg Gly Tyr
1               5                   10                  15
Thr Asn Trp Gly Thr Phe Arg Leu Pro Lys Pro Thr Thr Lys His Gln
            20                  25                  30
Ala Arg Tyr Thr Asp Gly His His Phe Ile Met Arg Phe Asp Ala Ser
        35                  40                  45
Gly Pro Val Gln Ser Ala Val Arg Arg Thr Leu Ser Leu Asp Pro Arg
    50                  55                  60
Met Ile Arg Phe Ser Val Val Lys Leu Gly Asp Lys Leu Glu Glu Ile
65                  70                  75                  80
Lys Asp Val Glu Gly Lys Val Glu Trp Thr Asn Ala Arg Lys Leu Ala
                85                  90                  95
Asp Ser Ile
```

<210> 25028
<211> 117
<212> PRT
<213> A.fumigatus

<400> 25028

```
Lys His Ser Phe Cys Arg His Ser Pro Tyr Pro Ser Ile Glu Ile Ser
1               5                   10                  15
Thr Ser Pro Leu Ile Ile Val Thr Leu Ile Arg Asn Asn Tyr Leu Ile
            20                  25                  30
Ile Asp Leu Ile Leu Tyr Leu Tyr Leu Pro Leu Leu Tyr Leu Val Phe
        35                  40                  45
Tyr Glu Ser Leu Thr Met Pro Asp Leu Arg Arg Gln Ile Phe Glu Ser
    50                  55                  60
Gly Lys Thr Met Ser Arg Lys Ala Ala Ser Arg Glu Gly Ser Arg Arg
65                  70                  75                  80
Pro Ser Arg Ala Ala Ser Ala Gln Ser Ser Lys Gln Ser Ser Arg Asn
                85                  90                  95
Val Ser Arg His Pro Ser Asp Glu Glu Asp Glu Gly Asn Leu Ser Asp
            100                 105                 110
Asp Thr Ala Tyr Arg
        115
```

<210> 25029
<211> 119
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25029
Lys Gly Thr Arg Arg Cys Xaa Ile Arg Ser Xaa Asn Val Met Arg Phe
1 5 10 15
Gly Glu Thr Ala Lys Ser Ser Ile Gly Leu Phe Ser Gly Gln Asp Ala
20 25 30
Ala Pro Phe Ala Ile Gln Asp Ile Phe Asn Asp Ile Leu Lys Leu Phe
35 40 45
Arg Pro Val Gly Val Cys Ile Ser Ile Trp Asn Asn Val Thr His Val
50 55 60
Ile Gln Gly Thr Glu Ala Val Lys Asn Ala Asn Met Ile Ser Tyr Asp
65 70 75 80
Trp Ile Thr Thr Asn Asn Tyr Val Ile Pro Pro Ser Arg Thr Leu Glu
85 90 95
Lys Glu Lys Arg Glu Lys Leu Gly Glu Glu Ser Glu Gly Lys Lys Leu
100 105 110
Thr Tyr Met Gln Cys Arg Arg
115

<210> 25030
<211> 91
<212> PRT
<213> A.fumigatus

<400> 25030
Pro Glu Lys His Pro Val Val Arg Thr His Pro Val Thr Lys Trp Lys
1 5 10 15
Thr Leu Tyr Val Asn Glu Asn Phe Thr Lys Glu Ile Ile Gly Ile Glu
20 25 30
Lys Arg Val Ser Asp Ala Leu Leu Asp Thr Leu Tyr Arg Thr Ile Ala
35 40 45
Glu Ala Tyr Glu Tyr Gln Val Arg Trp Lys Trp Thr Pro Asn Ala Val
50 55 60
Ala Ile Trp Asp Asn Arg Val Thr Phe His Thr Gly Ile Phe Asp Tyr
65 70 75 80
Cys Met Ser Thr Pro Leu Phe Tyr Gly Pro Cys
85 90

<210> 25031
<211> 162
<212> PRT
<213> A.fumigatus

<400> 25031
His Pro Phe Ala Asn Thr Met Leu Ala Leu Ser Leu Leu Tyr Ile Pro
1 5 10 15
Leu Gly Leu Ala Ala Ala Gln Leu Ile Gly Pro Val Gly Pro Thr Thr
20 25 30
Ala Leu Ser Lys Lys Thr Val Asp Cys Asn Ile Leu Ser Tyr Gly Ala
35 40 45
Val Ala Asp Asn Thr Thr Asp Ile Ser Thr Ser Leu Glu Ser Ala Phe
50 55 60

```
Asn Trp Cys Val Arg Pro Asn Pro Gly Ser Arg Leu Val Val Pro Glu
65                  70                  75                  80
Gly Gln Tyr Leu Ile Ser Arg Gly Val Val Leu Ser Asn Ala Thr Asn
                85                  90                  95
Trp Ala Phe Gln Leu Asp Gly Leu Ile Thr Val Ala Tyr Gly Gly Asn
            100                 105                 110
Trp Thr Ile Asp Arg Ala Leu Ile Leu Glu Gly Leu Ala Gly Thr Asp
        115                 120                 125
Val Leu Asn Thr Thr Ile Asn Gly Glu Gly Asp Gln Lys Phe Leu Leu
    130                 135                 140
Asp Val Leu Val Ile Val Asn Gly Glu Arg Gln Ser Leu Val Val Asn
145                 150                 155                 160
Val Asp
```

<210> 25032
<211> 88
<212> PRT
<213> A.fumigatus

<400> 25032

```
Ser Leu Phe Glu Arg Thr Arg Lys Val Asp Leu Asp Ala Thr Ala Thr
1               5                   10                  15
Thr Lys Ser Val Phe Asp Asp Pro Val Leu Ala Lys Tyr Tyr Leu Pro
            20                  25                  30
His Pro Gln Tyr Glu Asn Met His Arg Phe Asp Ala Asp Phe Arg Trp
        35                  40                  45
Thr Tyr Arg Glu Glu Ile Ala Val Arg Arg Lys Thr Asp Leu Lys Ile
    50                  55                  60
Phe Leu Trp Ile Leu Val Met Phe Phe Gly Leu Asn Leu Asp Arg Gly
65                  70                  75                  80
Asn Leu Gly Asn Ala Pro Ala Gly
                85
```

<210> 25033
<211> 228
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (170)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25033

```
Ser Phe Gln Pro Arg Gly Glu Asp Ser Pro Ser Leu Arg Gly Leu Asn
1               5                   10                  15
Glu Leu Val Glu Asn Pro Tyr Phe Gly Gly Thr Ser Val Arg Val Pro
            20                  25                  30
Tyr Lys Thr Glu Val Ile Pro Leu Leu His Ser Met Ser Pro His Ala
        35                  40                  45
Arg Ala Ile Gly Ala Val Asn Thr Leu Ile Pro Ile Arg Lys Phe Pro
    50                  55                  60
Asp Gly Val Asp Thr Ala Ile Glu Ser Ser Leu Tyr Leu Glu Lys Ser
65                  70                  75                  80
Arg Ala Gly Pro Thr Lys Ala Leu His Gly Asp Asn Thr Asp Trp Ile
```

```
                85                  90                  95
Gly Ile Gly Asn Cys Phe Arg Arg Gly Leu Ser Pro Ala Asn Ala Ile
            100                 105                 110
Arg Pro Ser Ser Thr Gly Leu Val Ile Gly Ala Gly Gly Met Ala Arg
        115                 120                 125
Ala Ala Val Tyr Ser Met Ile His Leu Gly Val Gln Asn Ile Phe Ile
    130                 135                 140
Tyr Asn Arg Thr Lys Ala Asn Ala Glu Lys Leu Ala His His Tyr Thr
145                 150                 155                 160
Arg Gln Asn Leu Leu Ala His Gly Trp Xaa Gly Arg Thr Leu Ala Arg
                165                 170                 175
Lys Ser Thr Pro Thr Val Pro Cys Arg Met Thr Gly Leu Arg Ser Thr
            180                 185                 190
Ser Arg Gln Pro Ser Phe Ala Ala Ala Tyr Leu Leu Ile Val Ser Glu
        195                 200                 205
Glu Cys Gln Leu Pro Thr Phe Ser Tyr Leu Arg Asn Gly Leu Gly Ala
    210                 215                 220
Leu Pro Glu Ala
225
```

<210> 25034
<211> 96
<212> PRT
<213> A.fumigatus

```
<400> 25034
Ala Ser Leu Gln Glu Thr Lys Ala Asn Ile Met Gln Leu Ala Tyr Lys
1               5                   10                  15
Pro Leu Asn Thr Pro Leu Met Lys Gln Met Arg Ala Leu Ser His Arg
            20                  25                  30
Gly Trp Val Ala Leu Asp Gly Leu Asp Val Leu Pro Glu Gln Gly Phe
        35                  40                  45
Ala Gln Phe Glu Leu Phe Thr Gly Arg Arg Ala Pro Arg Arg Val Met
    50                  55                  60
Arg Arg Ile Val Leu Gln Glu Tyr Lys Glu Val Glu Gly Gln Asp Glu
65                  70                  75                  80
Gln Ser Ala Ile Gln Ser Arg Leu Glu Asn Leu Asp Gly Gln Pro Thr
                85                  90                  95
```

<210> 25035
<211> 161
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (78)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25035
His Arg Leu Asp Arg Asp Arg Lys Leu Leu Gln Lys Arg Ser Val Ser
1               5                   10                  15
Cys Lys Cys His Pro Ser Val Val His Arg Ser Gly His Trp Ser Gly
            20                  25                  30
Arg Tyr Gly Ser Gly Gly Ser Val Leu Asn Asp Pro Pro Arg Gly Ala
        35                  40                  45
```

```
Lys His Leu His Leu Gln Ser Tyr Gln Gly Gln Arg Arg Glu Val Gly
    50                  55                  60
Ser Pro Leu Tyr Pro Thr Glu Ser Phe Gly Ala Trp Met Xaa Arg Ala
65                  70                  75                  80
Asn Ser Arg Ser Lys Val His Thr Tyr Ser Pro Leu Gln Asp Asp Trp
                85                  90                  95
Pro Ala Lys Tyr Lys Pro Pro Thr Val Ile Cys Ser Cys Ile Pro Ala
            100                 105                 110
His Ser Ile Gly Gly Val Pro Ala Pro Asn Phe Gln Leu Pro Ser Gln
        115                 120                 125
Trp Leu Gly Ser Pro Thr Gly Gly Val Val Val Glu Val Ser Ser Arg
    130                 135                 140
His Arg Phe Lys Arg Arg Arg Leu Ile Ser Cys Ser Trp Pro Thr Asn
145                 150                 155                 160
Leu
```

<210> 25036
<211> 177
<212> PRT
<213> A.fumigatus

<400> 25036

```
Gln His Asp Asn Ala Asp Tyr Ser Glu Asn His Pro Pro Pro Pro His
1               5                   10                  15
Pro Pro Pro Pro Cys Ser Pro His Thr Ser Ser Arg Pro Val Gln Trp
            20                  25                  30
Arg Pro Thr Cys Gly Ile Pro His Pro Pro Pro Pro Pro His Pro Pro
        35                  40                  45
Pro Pro Pro His Pro Pro Thr Pro Pro Ala Ala Pro Thr Pro Pro Pro
    50                  55                  60
Thr Thr Leu Ala Ser Ile Thr Thr Pro Pro Pro Thr Pro Pro Pro Ser
65                  70                  75                  80
Pro Pro Pro Pro Pro Arg Ser Pro Pro Leu Leu Arg Pro Pro Leu Ser
                85                  90                  95
Arg Leu Thr Arg Leu Pro His Pro Pro Pro Pro Pro His Pro Pro Ala
            100                 105                 110
Thr Thr Pro Pro Leu Ser Pro Pro Pro Pro Pro Pro Pro Pro Pro Ala
        115                 120                 125
Pro Pro Pro Pro Pro Pro Pro Pro Pro Ser Pro Pro Pro Ser Pro Ala
    130                 135                 140
Pro Pro Pro Pro Pro Pro Pro Pro Leu Pro Pro Thr Pro Pro His Pro
145                 150                 155                 160
Thr Pro Pro Arg Pro Pro Pro Pro Pro Pro Pro His Pro Pro Thr Pro
                165                 170                 175
Pro
```

<210> 25037
<211> 195
<212> PRT
<213> A.fumigatus

<400> 25037

```
Leu Ser Ser Ser Val Arg Ser Ile Arg Pro Ser Ile Met Val Gly Ile
1               5                   10                  15
```

```
Met Val Asp Ser Met Ile Met Leu Thr Ile Pro Arg Thr Ile Leu Pro
            20                  25                  30
His Arg Thr Pro Pro Pro Pro Ala His Pro Thr Pro Pro Pro Gly Leu
        35                  40                  45
Tyr Asn Gly Val Arg Pro Ala Gly Phe Pro Thr Pro Pro Leu Pro Pro
    50                  55                  60
Thr Pro Pro Leu Pro Arg Thr Pro Pro Pro Leu Pro Arg Pro Leu His
65                  70                  75                  80
Pro Pro Gln Arg Pro Ser Pro Leu Ser Gln Pro Pro Pro Pro Arg Pro
                85                  90                  95
Arg His His Pro Pro Pro Pro Pro Ala Pro Pro Pro Tyr Ser Val Pro
            100                 105                 110
Arg Ser His Ala Ser Pro Asp Ser Pro Thr Pro Pro Pro Arg Leu Thr
        115                 120                 125
Pro Arg Pro Gln Pro His Leu Ser Pro Pro Pro Arg Pro Pro Pro Pro
    130                 135                 140
Pro Gln Pro Pro Leu Pro Pro His Pro Pro Pro Pro Pro Pro Pro Pro
145                 150                 155                 160
Pro Pro Pro Pro Pro Pro Pro Leu Pro Pro His Cys Pro Pro Pro Pro
                165                 170                 175
Pro Thr Pro Pro Pro Pro Ala Leu Pro Pro Pro Pro Pro Pro Thr Pro
            180                 185                 190
Pro Pro Pro
        195
```

<210> 25038
<211> 171
<212> PRT
<213> A.fumigatus

<400> 25038

```
Leu Phe Arg Glu Pro Ser Ser Pro Thr Ala Pro Pro Pro Pro Leu Leu
1               5                   10                  15
Thr Pro His Leu Leu Gln Ala Cys Thr Met Ala Ser Asp Leu Arg Asp
            20                  25                  30
Ser Pro Pro Pro Pro Ser Pro Pro Pro Pro Pro Ser Pro Ala Pro Pro
        35                  40                  45
His Pro Ser Arg Gly Pro Tyr Thr Pro Pro Asn Asp Pro Arg Leu Tyr
    50                  55                  60
His Asn Pro Pro Pro His Ala Pro Ala Ile Thr Pro Pro Pro Pro Pro
65                  70                  75                  80
Leu Pro Pro Pro Thr Pro Ser Pro Ala Leu Thr Pro His Pro Thr Pro
                85                  90                  95
Pro Pro Pro Pro Pro Ala Ser Pro Pro Gly His Asn Pro Thr Ser Leu
            100                 105                 110
Pro Pro Pro Ala Pro Pro Pro Pro Pro Ser Pro Pro Ser Pro Pro Thr
        115                 120                 125
Pro Pro Pro Leu Pro Pro Pro Leu Pro Arg Pro Pro Pro Pro Pro Ser
    130                 135                 140
Pro Pro Thr Ala Pro His Pro Pro Pro Pro His Pro Pro Pro Pro Ser
145                 150                 155                 160
Pro Pro Pro Pro Pro Pro Pro Pro His Pro Pro
                165                 170
```

<210> 25039
<211> 171

<212> PRT
<213> A.fumigatus

<400> 25039
Glu Ser Ser Leu Ser His Val Ala Leu Thr Trp Ser Arg Leu Phe Thr
1 5 10 15
Leu Gln Pro Ile Ser Asn Leu Ser Thr Tyr Arg Val Phe Tyr Thr Thr
20 25 30
Ala Gln His Val Pro Ser Pro Ser Pro Pro Ser Pro His Leu Pro Pro
35 40 45
Pro His Pro Ser Pro His Lys Pro His Asn Pro Lys Ser Asn Pro Asp
50 55 60
Asn Leu Gln Arg Gln Pro Ser Leu Leu His Pro Pro Leu Leu Gln His
65 70 75 80
His Val Pro Arg Arg Pro Arg Gln Pro Leu Arg Arg Pro Pro Pro Ala
85 90 95
Thr Lys Pro Glu Pro Arg Gly Asp Gly Thr Thr Arg Pro Arg His Pro
100 105 110
Leu Pro Pro Gly Pro Asp Thr Gln Glu Pro Arg Arg Glu Arg His Gly
115 120 125
Ala Pro Ala Met Pro Tyr Leu Leu Ser Ala Arg Gly Arg Gly Asp Leu
130 135 140
Glu Val Val Pro Gly Asp Arg Glu Gly Val Ala Gly Cys Ala Pro Gly
145 150 155 160
Arg Gly Arg Asp Pro Ala Leu Asp Gln Arg Gly
165 170

<210> 25040
<211> 238
<212> PRT
<213> A.fumigatus

<400> 25040
Pro Gly Ala Val Ser Ser His Tyr Ser Leu Phe Leu Thr Ser Leu His
1 5 10 15
Ile Gly Phe Phe Ile Leu Gln Leu Ser Met Ser Pro Leu His Leu Leu
20 25 30
Pro Leu Leu Ile Ser Leu Leu Pro Ile Pro Val Leu Thr Asn Pro Ile
35 40 45
Thr Pro Arg Ala Thr Pro Thr Thr Cys Asn Gly Asn Pro Ala Tyr Cys
50 55 60
Thr Arg Leu Tyr Ser Asn Ile Thr Phe Leu Gly Ala His Asp Ser Pro
65 70 75 80
Phe Val Gly Pro Leu Pro Gln Gln Asn Gln Asn Leu Glu Val Thr Glu
85 90 95
Gln Leu Asp Leu Gly Ile Arg Phe Leu Gln Gly Gln Thr His Lys Asn
100 105 110
Leu Asp Glu Ser Asp Thr Ala Leu Arg Leu Cys His Thr Ser Cys Leu
115 120 125
Leu Glu Asp Ala Gly Thr Leu Lys Ser Phe Leu Glu Thr Val Lys Gly
130 135 140
Trp Leu Asp Ala His Pro Asp Glu Val Val Thr Leu Leu Leu Thr Asn
145 150 155 160
Gly Asp Asn Val Pro Val Ala Arg Phe Asp Glu Ala Phe Ala Gly Ala
165 170 175
Gly Leu Arg Asp Tyr Ala Phe Val Pro Glu Gly Ser Pro Lys Thr Leu

```
            180                 185                 190
Ala Met Asp Ala Trp Pro Thr Leu Ala Ala Leu Ile Glu Lys Gly Lys
        195                 200                 205
Arg Leu Val Val Phe Leu Gly Glu Tyr Gln Pro Ser Val Thr Gly Met
    210                 215                 220
Phe Glu Arg Tyr Val Arg Leu Thr Met Val Arg Leu Arg Arg
225                 230                 235

<210> 25041
<211> 149
<212> PRT
<213> A.fumigatus

<400> 25041
Gln Met Ala Asp Thr His Pro Glu Thr Pro Pro Ala Ser Ser Pro Ser
1               5                   10                  15
Arg Ser Thr Pro Pro Gly Ser Ala Thr His Pro Leu Pro Thr Ser Trp
            20                  25                  30
Gly Ser Pro Arg Ala Gln Thr His Ser Pro Ser Thr Arg Pro Pro Gln
        35                  40                  45
Arg Pro Arg Arg Ser Ala Pro Arg Ala His Tyr Pro Arg Trp Ser Arg
    50                  55                  60
Ala Gly Ser Arg Pro Arg Pro Gly Ala His Pro Ala Thr Pro Ser Arg
65                  70                  75                  80
Ser Pro Gly Thr Thr Ser Arg Ser Pro Arg Pro Arg Ala Asp Arg Arg
                85                  90                  95
Tyr Gly Ile Ala Gly Ala Pro Cys Arg Ser Arg Arg Gly Ser Cys Val
            100                 105                 110
Ser Gly Pro Gly Gly Ser Gly Cys Arg Gly Leu Val Val Pro Ser Pro
        115                 120                 125
Arg Gly Ser Gly Phe Val Ala Gly Gly Gly Arg Arg Arg Gly Cys Arg
    130                 135                 140
Gly Arg Arg Gly Thr
145

<210> 25042
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25042
Leu Ile Ser Asp Arg Arg Val Arg Gly Glu Asp Thr Met Arg Leu Gly
1               5                   10                  15
Ala Phe Ala Leu Arg Ser Thr Ser Ile Thr Ala Lys Pro Ala Val Gln
            20                  25                  30
Ser Ala Ala Phe Asn Gly Leu Arg Cys Tyr Ser Thr Gly Lys Ala Lys
        35                  40                  45
Val Arg Asp Ala Cys Ser Gly Ser Ile Asp Met Phe Arg Ala Phe Phe
    50                  55                  60
Thr Asp Ser Phe Phe Phe Phe
65                  70

<210> 25043
<211> 188
<212> PRT
<213> A.fumigatus
```

<220>
<221> UNSURE
<222> (134)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25043
Glu Tyr Ser Gly Leu Phe Trp Leu Leu Leu Thr Gly Glu Ile Pro Thr
1 5 10 15
Glu Gln Gln Val Arg Asp Leu Ser Ala Glu Trp Ala Ala Arg Ser Asp
20 25 30
Leu Pro Lys Phe Ile Glu Glu Leu Ile Asp Arg Cys Pro Ser Thr Leu
35 40 45
His Pro Met Ala Gln Phe Ser Leu Ala Val Thr Ala Leu Glu His Glu
50 55 60
Ser Ala Phe Ala Lys Ala Tyr Ala Lys Gly Ile Asn Lys Lys Asp Tyr
65 70 75 80
Trp Asn Tyr Thr Tyr Glu Asp Ser Met Asp Leu Ile Ala Lys Leu Pro
85 90 95
Thr Ile Ala Ala Lys Ile Tyr Arg Asn Val Phe Lys Asp Gly Lys Val
100 105 110
Ala Pro Ile Gln Lys Asp Lys Asp Tyr Ser Phe Asn Leu Ala Asn Gln
115 120 125
Leu Gly Tyr Gly Asp Xaa Asn Asp Phe Val Glu Leu Met Pro Leu Val
130 135 140
Pro His His Pro Leu Arg Ser Arg Arg Trp Glu Thr Ser Leu Ala Gln
145 150 155 160
Thr Thr Ser Pro Pro Trp Asp Cys Ser Glu Pro Arg Pro Ser Ser Ser
165 170 175
Leu Ala Gly Gly Ser Pro Pro Leu Trp Leu Gly Pro
180 185

<210> 25044
<211> 149
<212> PRT
<213> A.fumigatus

<400> 25044
Asp Ser Glu Pro Ser Leu Ser Val Pro Pro Leu Ser Arg Leu Ser Leu
1 5 10 15
Pro Cys Ser Pro Leu Leu Ser Thr Ala Cys Val Ala Ile Leu Leu Ala
20 25 30
Arg Pro Arg Phe Val Thr Leu Val Arg Gly Gln Leu Thr Cys Phe Glu
35 40 45
Leu Ser Leu Leu Ile Ala Ser Ser Ser Phe Ser Pro Ser Arg Arg Arg
50 55 60
Ser Pro Ile Ser Phe Pro Val Arg Ser Arg Arg Leu Arg Ser Ser Glu
65 70 75 80
Ser Lys Arg Ala Ala Tyr Trp Glu Leu Pro Pro Thr Ile Gln Arg Val
85 90 95
Leu Ile Lys Arg Ala Val Val His Arg Glu His Gly Ser Lys Val Ile
100 105 110
Gly Glu Val Thr Leu Asp Gln Ala Tyr Gly Gly Ala Arg Gly Val Lys
115 120 125
Cys Leu Val Trp Glu Val Gly Pro Glu Ser Leu Phe Pro Ser Pro Ser
130 135 140

Val Ser Val Ile Ile
145

<210> 25045
<211> 334
<212> PRT
<213> A.fumigatus

<400> 25045
Cys Phe Ser Pro Trp Leu Gln Phe Ser His Tyr Ser Gly Leu Gly Phe
1 5 10 15
Ser Ile Cys Cys Arg Leu Val Asp Glu Phe Leu Lys Ser His Arg His
20 25 30
Pro Arg Glu Ser Leu Thr Val Ile Phe Thr Thr Arg Ser Thr Arg Lys
35 40 45
Gly Asn Asp Thr Leu Leu Arg Leu Gln Asp His Leu Arg Arg Ala Ser
50 55 60
Ala Ser Ala Ser Ala Pro Ala Ala Ala Ser Ala Arg Val Thr Phe Val
65 70 75 80
Ala Glu Asn Val Asp Leu Ser Asn Leu Val Ser Val Arg Ala Leu Ser
85 90 95
Arg Arg Leu Asn Lys Thr Phe Pro Lys Leu Asp Ala Ile Val Leu Asn
100 105 110
Ala Gly Leu Gly Gly Trp Thr Gly Ile Asn Trp Pro Lys Ala Ile Trp
115 120 125
Gly Val Met Thr Asp Leu Val His Glu Val Ser Trp Pro Ser Phe Lys
130 135 140
Ile Ala Pro Ala Gly Met Val Thr Asp Ala Gln Thr Ala Leu Gly Asp
145 150 155 160
Asp Lys Glu Pro Arg Leu Gly Ala Val Phe Cys Ala Asn Val Phe Gly
165 170 175
His Tyr Met Leu Ala His Asn Ala Met Pro Leu Leu Arg His Ser Asp
180 185 190
Met Leu His Gly Pro Gly Arg Ile Ile Trp Val Ser Ser Leu Glu Ala
195 200 205
Thr Val Lys His Leu Asp Ile Asp Asp Ile Gln Gly Leu Arg Thr Leu
210 215 220
Ala Pro Tyr Glu Ser Ser Lys Ala Leu Thr Asp Ile Leu Ala Leu Thr
225 230 235 240
Ala Asp Leu Pro Ser Thr Ala Pro Trp Val Lys Ser Phe Tyr Ser Val
245 250 255
Asp Glu Gln Pro Glu Pro Arg Lys Glu Thr Glu Leu Glu Pro Pro His
260 265 270
Pro Asn Met Phe Leu Thr His Pro Gly Ile Cys Gly Thr Gly Ile Leu
275 280 285
Pro Leu Ser Trp Pro Leu Phe Tyr Ser Met Leu Ala Ala Phe Trp Leu
290 295 300
Ala Arg Leu Leu Gly Ser Pro Trp His Thr Ile Ser Thr Tyr Ala Gly
305 310 315 320
Ala Val Phe Thr Thr Arg Gly Arg Lys Ala Pro Ala Gln Ala
325 330

<210> 25046
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25046
Met Ser Pro Arg Glu Leu Gln Ala Val Val Val Cys Gln Gly Met Asp
1 5 10 15
Cys Cys Ala Trp Arg Val Tyr Pro Pro Arg Leu His Gly Asn Gly Glu
20 25 30
Ser Lys Ala Ala Cys Pro Ser Gly Ile Lys Phe Val Ile Pro Ser Val
35 40 45
Ala Ile Ser Leu Ala Glu Ala Asp Ile Gln Ile Leu His His Glu Asn
50 55 60
Asp His Arg Leu
65

<210> 25047
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25047
Gly Thr Met Ala Lys Leu Ala Pro Leu Leu Ala Ala Met Lys Lys Ala
1 5 10 15
Ile Lys Thr Thr Ser Pro Asn Ile Ser Pro Ser Leu Phe Gly Ser Ser
20 25 30
Ser Pro Thr Ala Ser Ala Ala Ala Pro Ile His Thr Pro Arg Gln Thr
35 40 45
Ser His Thr Phe Phe Pro His Thr Asp Arg Val Tyr Arg
50 55 60

<210> 25048
<211> 348
<212> PRT
<213> A.fumigatus

<400> 25048
Leu Pro Cys Gly Ser Ser Ser Glu Ser Ser Glu Gln Pro Leu Cys Pro
1 5 10 15
Val Arg Ser Gly Ala Arg Ala Ser Ser Ile Arg Thr Ser Trp Gly Leu
20 25 30
Pro Thr Arg Trp Arg Gly Ala Ser Ala Met Ala Ala Ala Ala Ser Pro
35 40 45
Ser Met Phe Leu Arg Leu Asp Phe Leu Cys Ala Thr Leu Thr Ser Leu
50 55 60
Ser Phe Val Met Pro Ala Ile Tyr Asp Ser Leu Val His Ser Gln Gly
65 70 75 80
Leu Thr Pro His Arg Ala Trp Arg Val Ala Tyr Val Val Pro Phe Ile
85 90 95
Ile Ile Val Thr Leu Ala Leu Ala Met Leu Phe Leu Cys Glu Asp Thr
100 105 110
Pro Thr Gly Lys Trp Ser Gln Arg Asn Asp Asn Asn Pro Val Met Gln
115 120 125
Ser Asn Ile Val Asp Leu His Arg Pro Ser Ala Ser Gly Thr Pro Ser
130 135 140
Ser Ile Asn Val Ser Thr Val Pro Glu Lys Lys Gly Val Ala Thr Pro
145 150 155 160
Gln Ile Val Asp Thr Glu Ala Gln Pro Val Ile Asp Ile Ser Leu Ala
165 170 175

```
Asn Asn Glu Thr Ile Lys Asn Pro Thr Leu Arg Glu Ala Leu Arg Val
            180                 185                 190
Ala Phe Ser Leu Pro Thr Leu Ala Leu Ala Leu Pro Tyr Ala Cys Ser
        195                 200                 205
Phe Gly Ala Glu Leu Ala Ile Asn Ser Met Leu Gly Ala Tyr Tyr Leu
    210                 215                 220
Lys Asn Phe Pro Ser Leu Gly Gln Thr Lys Ser Gly Arg Trp Ala Ala
225                 230                 235                 240
Met Phe Gly Leu Val Asn Val Val Phe Arg Pro Ala Gly Gly Phe Met
                245                 250                 255
Ala Asp Val Ile Tyr Arg Tyr Thr Arg Ser Val Trp Gly Lys Lys Val
            260                 265                 270
Trp Leu Val Cys Leu Gly Val Cys Met Gly Ala Ala Ala Leu Ala Val
        275                 280                 285
Gly Leu Leu Asp Pro Lys Arg Glu Gly Leu Met Phe Gly Leu Val Val
    290                 295                 300
Leu Met Ala Phe Phe Ile Ala Ala Ser Asn Gly Ala Asn Phe Ala Ile
305                 310                 315                 320
Val Pro His Val His Pro Thr Ala Asn Gly Lys Leu Ser Val Phe Phe
                325                 330                 335
Arg Gln Ala Tyr Ala Asn Arg Pro Arg Asn Arg Leu
            340                 345
```

<210> 25049
<211> 300
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (297)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25049

```
Phe Ser Ser Ser Arg Cys Ala Asp Ile Ala Ser Tyr Phe Thr Pro Lys
1               5                   10                  15
Tyr Ile Glu Gly Leu Gly Thr Phe Gln Asp Gly Gly Val Arg Val Asn
            20                  25                  30
Cys Pro Leu Arg Thr Ala Leu Arg Glu Ser Glu Val Leu Trp Pro Ser
        35                  40                  45
Arg Lys Arg Pro Asp Leu Val Val Ser Ile Gly Thr Gly Tyr Ala Ser
    50                  55                  60
Glu Gly Ser Ser Phe Asp Glu Asn Ser Thr His Ala Phe Leu Lys Gly
65                  70                  75                  80
Gly Phe Ile Asp Arg Ala Ile Arg Thr Phe Leu Ser Ser Pro Ala Val
                85                  90                  95
Asp Gly Arg Arg Gly Trp Lys Asp Ala Leu Asp Ser Val Pro Gln Asp
            100                 105                 110
Val Gln Lys Asn Val Phe Arg Leu Asp Arg Ile Leu Pro Gly Glu Leu
        115                 120                 125
Pro Glu Leu Asp Asp Ile Asn Ala Ile Asp Glu Leu Asp Gln His Asp
    130                 135                 140
Tyr Arg Ile Ser Glu Glu Leu Thr Lys Ala Trp Phe Ala Lys Ala Leu
145                 150                 155                 160
Phe Phe Glu Leu Asp Gln Glu Pro Thr Phe Leu Gln Asn His Tyr Glu
                165                 170                 175
```

```
Cys Arg Gly Ser Ile Leu Cys Cys Lys His Asp Ala Ala Gly Ile Val
            180                 185                 190
Lys Gln Ile Ala Ala Arg Phe Pro Glu Ala Arg Phe Ala Leu Ser Arg
        195                 200                 205
Gly Ser Ser Leu Gly Asp Val Asp Gly Glu Tyr Gly Cys Ser Lys Cys
    210                 215                 220
Gly Tyr Tyr Arg Lys Arg Val Ser Phe Lys Val Ser Asn Leu His Glu
225                 230                 235                 240
Thr Val Asp Leu Gly Val Thr Gly Thr Thr Gly Phe Ile Ser Ile Gly
                245                 250                 255
Gly Phe Pro Thr Thr Val Gln Cys Leu Leu Glu Asn Gln Gln Ala Asp
            260                 265                 270
Ser Pro Phe Gly Arg Ser Asp His Ser Arg Asp Arg Trp Pro Pro Ser
        275                 280                 285
Arg Gly Cys Tyr Cys Ser Thr Arg Xaa Phe Thr Ser
    290                 295                 300
```

<210> 25050
<211> 62
<212> PRT
<213> A.fumigatus

```
<400> 25050
Asn Arg Ser Gln Asn Ala Phe Gly Asp Pro Leu Gly Cys Val Ile Arg
1               5                   10                  15
Ser Leu Thr Asp Tyr Val Ile Asp Asn Met Met Thr Gln Gln Val Ala
            20                  25                  30
Cys Pro Thr Pro Ile Ala Gln Thr Lys Ala Ser Phe Pro Ala Pro Pro
        35                  40                  45
Asn Tyr Ile Gln Pro Pro Gln Phe Gln Gly Phe Tyr Val Ala
    50                  55                  60
```

<210> 25051
<211> 147
<212> PRT
<213> A.fumigatus

```
<400> 25051
Ala Ser Gly Ser Arg Asn Arg Ala Asp His Gln Thr Arg Phe Asp Phe
1               5                   10                  15
Tyr Phe Lys Ser Cys Ser Ala Gln Pro Ala Thr Met Pro Pro Lys Ala
            20                  25                  30
Arg Ile Asn Ser Lys Asn Ser Val Glu Gln Glu Gly Arg Val Leu Leu
        35                  40                  45
Ala Val Ser Ala Leu Lys Asn Lys Glu Ile Leu Asn Ile Arg Glu Ala
    50                  55                  60
Ala Arg Val Tyr Asn Val Pro Tyr Thr Thr Leu Gln Arg Arg Leu Lys
65                  70                  75                  80
Gly His Thr Phe Arg Ala Glu Leu Arg Val Asn Gly Tyr Lys Met Thr
                85                  90                  95
Gln Asn Glu Glu Asp Ser Leu Ile Arg Trp Ile Leu Ser Met Asp Gln
            100                 105                 110
Arg Gly Ala Ala Pro Arg Pro Ser Tyr Val Arg Glu Met Ala Asn Ile
        115                 120                 125
Leu Leu Ala Gln Arg Gly Ser Thr Pro Thr Gln Thr Val Gly Glu Ser
    130                 135                 140
```

Ser Pro Gly
145

<210> 25052
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25052
Met Ile Ala Ile Thr Ser Gly Lys Lys Arg Leu Asp Leu Ala Gly Pro
1 5 10 15
Leu Leu Ala Asn Leu Phe Arg Val Leu Phe Thr Lys Val Thr Arg Asp
20 25 30
Leu Gln Arg Tyr Val Gln Arg Cys Val Gly Thr Asn Arg Glu Ile Tyr
35 40 45
Leu Asn Leu Arg Ile Lys Ala Ile Thr Leu Met Gly Cys Leu Lys
50 55 60

<210> 25053
<211> 464
<212> PRT
<213> A.fumigatus

<400> 25053
Ser Thr Arg Lys Arg Asn Leu Phe Leu Phe Glu Arg Val Ala Pro Ser
1 5 10 15
Leu Arg Ser Thr His Ser Tyr Ile Asp Arg Pro Pro Gln Asn Arg Ile
20 25 30
Arg Phe Pro Ser Lys Trp Pro Asn Thr Met Met Arg Thr Arg Met Ser
35 40 45
Ser Thr Met Arg Trp Arg Arg Gly Ser Arg Arg Arg Thr Ala Gly Arg
50 55 60
Leu Ser Pro Pro Ser Phe Asp Thr Lys Gly Leu Val Ser Gln Gln Leu
65 70 75 80
Asp Ser Phe Asp Glu Phe Ile Ser Ser Thr Met Gln Glu Leu Val Glu
85 90 95
Glu Gln Gly Gln Val Thr Leu Asp Gln Thr Leu Pro Pro Ser Glu Asp
100 105 110
Glu Asp Asp Pro Val Val Leu Arg Arg Tyr Glu Leu Lys Phe Gly Thr
115 120 125
Val Met Leu Ser Arg Pro Ser Val Thr Glu Gly Asp Gly Ala Thr Thr
130 135 140
Ile Met Leu Pro Gln Glu Ala Arg Leu Arg Asn Leu Thr Tyr Ala Ser
145 150 155 160
Pro Leu Tyr Leu Gly Ile Thr Lys Arg Ile Met Glu Gly Arg Glu Arg
165 170 175
Leu Ile Ala Asp Arg Asp Glu Asp Asp Ala Ala Pro Asp Ala Asp Glu
180 185 190
Asp Arg Lys Ala Arg Gly Thr Tyr Leu Gln Trp Glu Gln Lys Glu Leu
195 200 205
Pro Pro Asp Gln Ala Lys Glu Glu Thr Val Phe Ile Gly Lys Met Pro
210 215 220
Ile Met Leu Lys Ser Lys Tyr Cys Ile Leu Lys Asp Leu Ser Glu Gln
225 230 235 240
Ala Leu Tyr Asn Trp Asn Glu Cys Pro Tyr Asp Ser Gly Gly Tyr Phe
245 250 255

```
Ile Ile Asn Gly Ser Glu Lys Val Leu Ile Ala Gln Glu Arg Ser Ala
            260                 265                 270
Gly Asn Thr Val Gln Val Phe Lys Lys Ala Pro Pro Ser Pro Thr Pro
        275                 280                 285
Tyr Val Ala Glu Ile Arg Ser Ala Val Glu Lys Gly Ser Arg Leu Leu
    290                 295                 300
Ser Gln Leu Ser Leu Lys Leu Phe Ala Lys Gly Asp Ser Ala Lys Gly
305                 310                 315                 320
Gly Phe Gly Pro Thr Ile Arg Ser Thr Leu Pro Tyr Val Lys Thr Asp
                325                 330                 335
Ile Pro Ile Val Val Val Phe Arg Ala Leu Gly Val Val Ser Asp Glu
            340                 345                 350
Asp Ile Leu Asn His Ile Cys Tyr Asp Arg Asn Asp Thr Pro Met Leu
        355                 360                 365
Glu Met Leu Lys Pro Cys Ile Glu Glu Gly Phe Val Ile Gln Asp Arg
    370                 375                 380
Glu Val Ala Leu Asp Phe Ile Ala Lys Arg Gly Ser Ser Gln Ser Ser
385                 390                 395                 400
Met Asn His Glu Arg Arg Val Arg Tyr Ala Arg Glu Ile Met Gln Lys
                405                 410                 415
Glu Leu Leu Pro His Ile Ser Gln Ser Glu Gly Ser Glu Thr Arg Lys
            420                 425                 430
Ala Phe Phe Leu Gly Tyr Met Val His Arg Leu Leu Gln Cys Ala Leu
        435                 440                 445
Gly Arg Arg Asp Val Asp Asp Arg Asp His Phe Gly Lys Glu Thr Ala
    450                 455                 460

<210> 25054
<211> 333
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (81),(126),(138)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25054
Gln Arg Gln Gly Leu Cys Gly Arg Gly Gly Thr Ser Thr Gln Glu Ile
1                 5                  10                  15
Trp Gly Glu Ile Ile Pro Phe Gln Val His Thr Phe Gly Val Arg Phe
            20                  25                  30
Trp Gly Gly Leu Met Gly Tyr Ile Trp Val Asn Ile Phe Pro Leu Pro
        35                  40                  45
Ala Ile Gln Leu Ala Leu Ser Thr Arg Ile Gln Phe Phe Phe Gly Ile
    50                  55                  60
Phe Ser Gly Phe Met Val Pro Phe Leu Gly Glu Ser Pro Arg Trp Phe
65                  70                  75                  80
Xaa Val Arg Ser Arg Ser Ser Ala Ala Lys Glu Val Ile Ala Arg Phe
                85                  90                  95
Leu Asp Lys Arg Leu Glu Asp Asp Glu Val Leu Thr Ser Leu Gln Ser
            100                 105                 110
Ile Glu Thr Thr Val Ala His Glu Met Glu Ser Gln Lys Xaa Gly Trp
        115                 120                 125
Arg Thr Ile Phe Ser Asn Gly Pro Gln Xaa Thr Phe Arg Arg Ile Ala
    130                 135                 140
```

```
Leu Gly Val Gly Val Asn Phe Met Gln Gln Phe Gly Gly Val Asn Ile
145                 150                 155                 160
Val Ala Tyr Tyr Leu Pro Ile Ile Met Lys Arg Ser Phe Gly Phe Ser
                165                 170                 175
Asp Arg Met Ser Leu Ile Leu Ser Ala Val Asp Ser Met Gln Trp Met
            180                 185                 190
Phe Trp Thr Gly Leu Gly Thr Leu Leu Ile Asp Arg Leu Gly Arg Arg
        195                 200                 205
Lys Leu Leu Ile Val Gly Ala Ala Gly Gln Ser Leu Cys Phe Ala Met
    210                 215                 220
Thr Ala Leu Gly Leu Gly Ile Gly Thr Lys Pro Leu Glu Gly Leu Ala
225                 230                 235                 240
Val Ala Phe Ile Phe Val Tyr Tyr Ala Phe Phe Val Arg Asn Pro Ser
                245                 250                 255
Asp Ser Glu Ala Pro Tyr His Leu Thr Ser His Met Gln Gly Leu Ser
            260                 265                 270
Phe Leu Ala Ile Pro Phe Met Tyr Pro Ser Glu Leu Asn Ser Ser Ile
        275                 280                 285
His Arg Asn Phe Ala Cys Ser Ala Ala Met Val Met Glu Trp Leu Gly
    290                 295                 300
Val Tyr Val Ile Val Ala Ile Thr Pro Val Gly Asp Leu Val Pro Pro
305                 310                 315                 320
Pro Leu Trp Met Tyr His Tyr Phe Asn Thr Asn Ser His
                325                 330
```

<210> 25055
<211> 87
<212> PRT
<213> A.fumigatus

<400> 25055

```
Leu Thr Leu Gly Ile Glu Ser Ile Ala Trp Lys Phe Tyr Leu Val Phe
1               5                   10                  15
Ala Ile Ala Asn Phe Val Phe Thr Ile Val Cys Trp Phe Phe Val Val
            20                  25                  30
Glu Thr Ser Gly Leu Ser Leu Glu Glu Ile Asp Lys Met Phe Glu Ile
        35                  40                  45
Lys Tyr Tyr Gly Gly Lys Tyr Met Thr Tyr Leu Glu Ala Ala Lys Lys
    50                  55                  60
Ala Lys Gly Asn Pro Leu Cys His Glu Leu Cys Glu Asp Gly Glu Ser
65                  70                  75                  80
Lys Asp Lys Gln Arg Ser Leu
                85
```

<210> 25056
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25056

```
Ser Met Gln Val Tyr Thr Asn Leu Phe Pro Val Arg His Thr Trp Tyr
1               5                   10                  15
Leu Leu Gly Thr Ile Ile Ile Leu Asn Gly Ile Asp Trp Ala Gly Phe
            20                  25                  30
Glu Val Leu Ala Ile Gly Asn Lys Glu Ile Glu Thr Leu Pro Thr Gly
        35                  40                  45
```

```
Tyr Arg Ile Leu Asp Gly Leu Phe Gln Ala Leu Gly Glu Gly Leu Asp
    50                  55                  60
Gly His Ala Arg Leu Leu Gly Leu Thr Gly Val Val
65                  70                  75
```

<210> 25057
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25057

```
Ala Arg Thr Gly Arg Gly His Ser Gly Pro Pro Cys Arg Lys Ala Pro
1               5                   10                  15
Ala Trp Pro Thr Ala Arg Arg Gln Thr Pro Arg Met His Asp Glu Thr
            20                  25                  30
Trp Arg Val Ala Gln Arg Pro Ala Pro Arg Pro Gly Pro Asp Pro Leu
        35                  40                  45
Arg Pro Arg Arg Gln Arg Arg Pro Arg Ile Ser Gly Cys Arg Pro Cys
    50                  55                  60
Cys Arg Ser Ser Ser Ala Thr Pro Thr Ser Ser Lys His Thr Lys Thr
65                  70                  75                  80
Phe
```

<210> 25058
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25058

```
Glu Val Gln Ile Asn Lys Pro Thr Asp Thr Pro Tyr Thr Met Gln Val
1               5                   10                  15
Leu Leu Leu Gly Gly His Gly Lys Val Ala Gln Lys Leu Thr Pro Leu
            20                  25                  30
Leu Leu Ala Arg Ser Trp Asn Val Thr Ser Val Ile Arg Asn Pro Glu
        35                  40                  45
His Glu Asn Ala Ile Leu Ala Leu Gly Lys Gly Ala Arg Gly Lys Leu
    50                  55                  60
Ser Val Leu Leu Ser Ser Leu Glu Asp Val Lys Ser Asp Asp Asp Ala
65                  70                  75                  80
Lys Lys Ile Ile Asp Ala Val Ser Pro Asp Tyr Val Val Trp Ser Ala
                85                  90                  95
Gly Met
```

<210> 25059
<211> 118
<212> PRT
<213> A.fumigatus

<400> 25059

```
Val Ile Leu Cys His Cys Ile Asn Cys Lys Arg Tyr Thr Gly Ser Gly
1               5                   10                  15
Phe Ser Ala Asn Ile Ala Val Pro Lys Thr Ser Leu His Trp Thr Lys
            20                  25                  30
Gly Gln Pro Lys Leu Tyr Val Asp Lys Ser Glu Arg Gly Thr Gly Val
```

```
        35                  40                  45
Pro Arg Met Phe Cys Gly Asp Cys Gly Thr Pro Phe Thr Ser Glu Pro
    50                  55                  60
Ser Gly Gln Asp Glu Val Ile Ile Ile Lys Thr Gly Thr Leu Asp Asp
65                  70                  75                  80
Pro Tyr Arg Asp Glu Cys Gly Glu Leu Ala Met Glu Ile Trp Cys Val
                85                  90                  95
Arg Lys Asp Lys Trp Val Asp Gln Met Lys Asp Glu Ser Ile Thr Arg
            100                 105                 110
Leu Asp Lys Ser Met Gly
        115
```

<210> 25060
<211> 258
<212> PRT
<213> A.fumigatus

<400> 25060

```
Ser Arg Gly Gly Ser Ser Glu Pro Arg Arg Thr Arg Ile Leu Pro Lys
1               5                   10                  15
Ala Glu Lys Lys Thr Thr Arg Ser Ile Glu Phe Phe Pro Arg Gly Leu
            20                  25                  30
Gly Asp Arg Ile Asn Lys Gly Ile Thr Arg Ile Thr Pro Val Ser Gly
        35                  40                  45
Asn Cys Gly Gly Ser Asn Ser Pro Ser Arg Pro Ser Tyr Pro Arg Ser
    50                  55                  60
Ser Cys Ser Met Trp Gln Asp Val Cys Ser Leu Pro Gln Thr Thr Phe
65                  70                  75                  80
Glu Ala Phe Arg Gly Asn Met Asp Arg Leu Lys Phe Ile Lys Tyr Arg
                85                  90                  95
Gln Ser Pro Arg Gly Ser Gln Gly Val Val Pro His Lys Asp Ser Ser
            100                 105                 110
Gly Val Phe Thr Phe Leu Ser Gln Asp Asp Thr Gly Gly Leu Gln Val
        115                 120                 125
Leu Asn Lys Lys Gly Glu Trp Ile Asp Ala Pro Pro Ile Glu Gly Ser
    130                 135                 140
Leu Val Val Asn Ile Gln Gln Gly Phe Glu Ala Ile Thr Gly Gly Val
145                 150                 155                 160
Cys Thr Ala Thr Thr His Arg Val Ile Val Ser Leu Cys Phe Thr Leu
                165                 170                 175
Tyr Leu Gly His Arg Ser Asp Val Glu Lys Ala Pro Thr Ser Lys Thr
            180                 185                 190
Arg Tyr Ser Ile Pro Tyr Phe Ser Ala Val Arg Met Asp Leu Thr Leu
        195                 200                 205
Ala Gln Leu Lys Glu Ser Ala Ala His Ile Val Gln Arg Ile Pro Ala
    210                 215                 220
Ser Asp Asp Arg Lys Lys Arg Ala Val Asp Val Pro Ser Glu Phe Leu
225                 230                 235                 240
Ser Pro Leu Tyr Ser Cys Val Ser Leu Leu Leu Pro Cys Ala Pro Phe
                245                 250                 255
Ala Val
```

<210> 25061
<211> 118
<212> PRT

<213> A.fumigatus

<400> 25061
Ile Asn Leu Thr Pro Pro Thr Arg Ile Ser Pro Asp Asn Pro Ile Ala
1 5 10 15
Met Ala Lys Val Ala Ala Leu Gly Leu Leu Leu Trp Ala Ile Pro Ser
20 25 30
Val Ala Val Ile Ala Thr Val Lys Ser Pro Cys Leu Ser Val Cys Gly
35 40 45
Gly Thr Gln Lys Thr Ile Gly Asp Glu Leu Ile Cys Asn Asp Gly Asp
50 55 60
Tyr Asn Ala Thr Thr Lys Gly Leu Thr Met Lys Asn Cys Leu Leu Cys
65 70 75 80
Glu Ser Thr Ser Thr Thr Tyr Ser Ser Gln Phe Asp Ser Asp Val Tyr
85 90 95
Trp Phe Ile Cys Met His Ala Leu Ser Leu Asp Ser Pro Thr Thr Tyr
100 105 110
His Thr Gly Ala His Gly
115

<210> 25062
<211> 97
<212> PRT
<213> A.fumigatus

<400> 25062
Ser Gly Val Val Asn Gln Lys Tyr Thr Ile Gln Val Cys Val Tyr Glu
1 5 10 15
Asn Ser Ala Ser Thr Ser Leu Ser Pro Cys Glu Ser Gln Cys Leu Pro
20 25 30
Leu Lys Pro Val Phe Glu Thr Leu Trp Trp Asn Arg Asn Val Ser Leu
35 40 45
Phe Asn Tyr Cys Thr Gln Asn Asn Asn Ala Phe Pro Thr Tyr Ala Asn
50 55 60
Gly Cys Ser Gln Cys Leu Met Gly Asn Ala Gly Ser Asn Val Leu Gly
65 70 75 80
Asn Leu Met Glu Asn Met Gly Ser Ala Cys Lys Thr Gln Pro Ile Ala
85 90 95
Thr

<210> 25063
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25063
Ile Glu Leu Arg Asn Ala Tyr Leu Ala His His Leu Val Ala Ile Tyr
1 5 10 15
Tyr His His Arg Gln Lys Arg Gln Pro Leu Gly Asn Met Thr Ala Glu
20 25 30
Lys Leu Arg Ile Ile Ile Val Gly Ser Gly Leu Ala Gly Leu Ala Ala
35 40 45
Ala Arg Ile Leu Arg Glu His His Asp Val Thr Val Tyr Glu Arg Gly
50 55 60
Gly Pro Asp Thr Ala Thr Gly Gly Gln Gly Ile Cys Leu Phe Ser Asn

```
65                  70                  75                  80
Gly Val Lys Ile Leu Gln Thr Met Gly Phe Asp Arg Tyr Arg Ala Gly
                85                  90                  95
Gly Val Pro Cys Tyr Gly Tyr Arg Leu Phe Asp Lys Asp Gly Asn Gln
            100                 105                 110
Leu Gln Asp Phe Pro Val Asp Phe Lys Lys Arg Tyr Gly Ala Asp Thr
        115                 120                 125
Leu Ser Met Lys Arg Ser Asp Phe Arg Asp Glu Leu Leu Arg Leu Ala
    130                 135                 140
Thr Ala Pro Ser Asp Glu Leu Gly Ile Gln Gly Ser Pro Ala Gln Met
145                 150                 155                 160
Val Phe Asn Ile Arg Ser Ser Ala Arg Gly Arg Arg Thr Arg Thr Asn
                165                 170                 175
Ala Ser Glu Gly
            180
```

<210> 25064
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25064

```
Leu Leu Leu Met Leu Pro Gln Ile Thr Ala Glu Ser Thr Leu Ser His
1               5                   10                  15
Asn Gln Glu Leu Met Leu Cys Gln Cys Ser Asn Leu Ile Leu Leu Phe
            20                  25                  30
His Thr Tyr Gly Ala Ile Ser Asn Cys Asn Ile Asp Glu Val Trp Ala
        35                  40                  45
Gln Pro Ala Ser Ser Lys Glu Phe Met Glu Arg Lys
    50                  55                  60
```

<210> 25065
<211> 135
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (56),(129),(132)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25065

```
Met Thr Gly Leu Asn Pro Glu Thr Asp Thr Ile Leu Gln Ile Cys Cys
1               5                   10                  15
Tyr Ile Thr Asp Ala Asn Leu Asn Leu Leu Asp Pro Glu Gly Phe Glu
            20                  25                  30
Thr Ile Ile His His Asp Arg Ser Val Leu Asp Ser Met Ser Pro Trp
        35                  40                  45
Cys Val Asn Thr His Gly Arg Xaa Gly Leu Thr Ala Ala Val Leu Ala
    50                  55                  60
Ser Thr Thr Asn Ser Thr Thr Ala Ala Glu Ser Leu Leu Ala Tyr Ile
65                  70                  75                  80
Gln Arg Tyr Val Pro His Pro Arg Thr Ala Leu Leu Ala Gly Asn Ser
                85                  90                  95
Val His Ala Asp Lys Met Phe Leu Ala Lys Glu Pro Tyr Lys Ala Val
            100                 105                 110
```

Leu Glu Trp Leu His Tyr Arg Ile Leu Asp Val Ser Ala Phe Lys Glu
115 120 125
Xaa Ala Lys Xaa Trp Gly Gly
130 135

<210> 25066
<211> 104
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25066
Pro Thr Pro Thr Ser Thr Ser Ser Thr Gln Lys Ala Ser Lys Pro Ser
1 5 10 15
Ser Thr Thr Thr Ala Pro Ser Ser Thr Pro Cys Arg Arg Gly Ala Ser
20 25 30
Thr Pro Thr Val Xaa Arg Gly Ser Leu Pro Gln Ser Ser His Pro Arg
35 40 45
Pro Ile Pro Leu Pro Pro Pro Asn Pro Cys Ser Pro Thr Ser Asn Asp
50 55 60
Thr Cys Leu Ile Leu Ala Arg Arg Cys Trp Arg Gly Thr Ala Cys Thr
65 70 75 80
Leu Thr Arg Cys Ser Ser Pro Arg Asn Arg Ile Arg Leu Cys Trp Ser
85 90 95
Gly Cys Ile Ile Gly Phe Ser Met
100

<210> 25067
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25067
Leu Val Leu Ala Ser Pro Gly Glu Asn Leu Thr Thr Gly Ile Ala Leu
1 5 10 15
Leu Tyr Ser Thr Gly Gly Asn Thr His Cys Leu Glu His Glu Thr Gln
20 25 30
Leu Ala Ser Phe Val Asp Pro Gly Asp Ile Phe Ala Leu Ser Thr Ala
35 40 45
Asn Pro Ser Leu Val Gly Glu Asp Cys Ala Ser Cys Ser Trp Ala Val
50 55 60
Leu Leu Asn Leu Glu Val Leu Glu Leu Val Ala Leu Gly Lys Val Thr
65 70 75 80
Glu Tyr Gln

<210> 25068
<211> 174
<212> PRT
<213> A.fumigatus

<400> 25068

```
Arg Val Cys Arg Pro Thr Pro Leu Thr Arg Cys Ser Pro Pro Cys Met
1               5                  10                  15
Ala Trp Thr Val Asn Gly Tyr Thr Leu Ala Cys Ser Pro Ala Leu Ser
            20                  25                  30
Ser Pro Arg Leu Ser Ser Thr Thr Ala Glu Thr Gly Ser Ser Thr Gln
        35                  40                  45
Thr Thr Gly Thr Asn Thr Ser Ser Thr Thr Ile Ala Thr Gly Thr Thr
    50                  55                  60
Leu Pro Gly Arg Leu Pro Thr Gln Arg Gln Pro Leu Arg Arg Ile Pro
65                  70                  75                  80
Ser Arg Ser Pro Pro Ser Thr Gly Ile Ser Pro Val Ser Lys Arg Gln
                85                  90                  95
Ala Ala Arg Phe Cys Thr Ile Thr Ala Trp Arg Met Arg Ser Leu Pro
            100                 105                 110
Arg Ile Ala Pro Arg Arg Thr Thr Ser Met Leu Leu Ile Pro Trp Val
        115                 120                 125
Ser Val Pro Arg Ser Trp Thr Ile Ser Ile Ala Tyr Ser Arg Leu Val
    130                 135                 140
Glu Trp Ala Ile Ala Arg Arg Gly Pro Val Arg Leu Pro Ser Gly Arg
145                 150                 155                 160
Val Leu Pro Pro Met Pro Ala Met Thr Arg Arg Ile Thr Cys
                165                 170
```

<210> 25069
<211> 369
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18),(54)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25069

```
Arg Pro Ala His Arg Glu Gln Trp Leu Gly Lys Ala Leu Glu Glu Val
1               5                  10                  15
Ile Xaa Ser Phe Lys Asp Thr Arg Ile Ser Tyr Tyr Leu Gly Cys Trp
            20                  25                  30
Thr Val Ala Gly Gln Gly Trp Lys Ser Ser Gln Arg Phe Pro Glu Asn
        35                  40                  45
Leu Asp Gly Val Val Xaa Gly Ala Pro Ala Ile Asn Leu Val Asn Leu
    50                  55                  60
Cys Ser Trp Gly Ser Arg Phe Leu Lys Ile Thr Gly Pro Pro Gly Ser
65                  70                  75                  80
Glu Thr Phe Val Thr Ser Ala Gln Trp Ser Ala Val His Asn Glu Ile
                85                  90                  95
Leu Arg Gln Cys Asp Ala Leu Asp Gly Ala Val Asp Gly Ile Ile Glu
            100                 105                 110
Asp Thr Asp Leu Cys Gln Pro Val Phe Glu Thr Leu Leu Cys Asn Ser
        115                 120                 125
Thr Ala Val Asp Lys Thr Ser Cys Leu Thr Gly Val Gln Ala Asn Thr
    130                 135                 140
Val Asn Glu Val Phe Ser Ala Met Tyr Gly Leu Asp Gly Lys Trp Leu
145                 150                 155                 160
Tyr Pro Arg Met Gln Pro Gly Ser Glu Leu Ala Ala Ser Phe Ile Tyr
                165                 170                 175
```

```
Tyr Ser Gly Asn Gly Phe Lys Tyr Ser Asp Asp Trp Tyr Lys Tyr Val
            180                 185                 190
Val Tyr Asn Asp Ser Asn Trp Asp His Ser Thr Trp Thr Leu Ala Asp
        195                 200                 205
Ala Ala Ala Ala Ala Ala Gln Asp Pro Phe Gln Ile Ser Ser Phe Asp
    210                 215                 220
Gly Asn Ile Ser Gly Phe Gln Lys Ala Gly Gly Lys Val Leu His Tyr
225                 230                 235                 240
His Gly Leu Glu Asp Ala Ile Ile Thr Ser Asp Ser Ser Lys Ala Tyr
                245                 250                 255
Tyr Lys His Val Ala Asp Thr Met Gly Leu Ser Pro Ser Glu Leu Asp
            260                 265                 270
His Phe Tyr Arg Leu Phe Pro Ile Ser Gly Met Gly His Cys Ser Pro
        275                 280                 285
Gly Thr Gly Ala Ala Ser Ile Gly Gln Gly Ser Ser Thr Tyr Ala Gly
    290                 295                 300
Asp Asp Pro Gln Asp Asn Val Leu Met Ala Ile Val Gln Trp Val Glu
305                 310                 315                 320
Lys Gly Ile Ala Pro Glu Tyr Val Arg Gly Ser Lys Met Ser Arg Asp
                325                 330                 335
Gly Thr Ile Asp Tyr Arg Arg Lys His Cys Lys Tyr Pro Lys Arg Asn
            340                 345                 350
Arg Tyr Val Gly Pro Gly Lys Tyr Thr Asp Glu Asn Ala Trp Lys Cys
        355                 360                 365
Val
```

<210> 25070
<211> 92
<212> PRT
<213> A.fumigatus

<400> 25070

```
His Tyr Leu Glu Thr Arg His Leu His Ile Lys Val Ser Ala Phe Ser
1               5                   10                  15
Ile Asp Phe Thr Lys Pro Glu Glu Arg Cys Phe Ser Leu Cys Ser Gln
            20                  25                  30
Gln Arg Lys Asp Ile Leu Ala Ser His Arg Asn Arg Tyr Glu Phe Leu
        35                  40                  45
Leu Ser Asn Ile Leu Thr Ala Thr Tyr His Ser Lys Asn Ser Val Asp
    50                  55                  60
Gln Glu Ile Gly Ser Ala Ile Pro Gly Thr Asp Ser Trp Gln Arg Leu
65                  70                  75                  80
Ile Pro Ser Ser Ser Ser Leu Phe Val Pro Cys Ile
                85                  90
```

<210> 25071
<211> 306
<212> PRT
<213> A.fumigatus

<400> 25071

```
Arg Gly Gly Val Asp Phe Val Val Pro Val Met Glu Ala Ile Ser Gly
1               5                   10                  15
Leu Ser Ser Ser Asn Glu Leu Gly Arg Asn His Pro Arg Ser Thr Glu
            20                  25                  30
```

```
Glu Thr Pro Lys Leu Leu Tyr Cys Thr Ala Ile Lys Ser Arg Thr Met
        35                  40                  45
Val Asn His Asp Thr Val Asp Leu Pro Val Ile Asp Tyr Ala Ala Leu
    50                  55                  60
Gly Glu Lys Asp Ala Ala Gly Tyr Arg Thr Ala Val Ser Ile Asp Glu
65                  70                  75                  80
Arg Arg Arg Leu Phe Thr Ala Leu Arg Asp Ile Gly Phe Ala Tyr Leu
                85                  90                  95
Lys His Pro Gly Val Asn Gln Val Thr Val Asp Glu Leu Phe Ala His
            100                 105                 110
Ser Arg Arg Phe Phe Ala Lys Pro Leu Glu Glu Lys Met Gln Ile Leu
        115                 120                 125
Gly Lys Leu Asp Lys Gly Arg Gly Pro Ser Gln Gly Tyr Ser Asn Pro
    130                 135                 140
Gln Gln Leu Ala His Asp Pro Gln Thr Ser Asp Leu Lys Glu Phe Phe
145                 150                 155                 160
Gly Met Tyr Arg Asp Asp Asp Thr Glu Lys Pro Asn Gln Trp Leu Ser
                165                 170                 175
Asp Ala Asp Ser Lys Ala Met Arg Thr Asp Leu Val Arg Phe Phe Asp
            180                 185                 190
Ser Cys His Gly Val Ile Leu Glu Leu Leu Ser Ala Leu Ala Glu Glu
        195                 200                 205
Val Gly Leu Ala Ala Glu Thr Leu His Pro Phe Ile Arg Glu Lys Asn
    210                 215                 220
His Phe Ile Ala Cys Leu His Tyr Pro Ala Thr Glu Pro Glu Ser Phe
225                 230                 235                 240
Arg Thr Arg Val Arg Ala Ala Ala His Thr Asp Tyr Gly Cys Leu Thr
                245                 250                 255
Leu Leu Phe Asn Asp Ser Gly Glu Gly Leu Gln Val Leu Arg Asn Asn
            260                 265                 270
Gly Gln Tyr Glu Tyr Val Pro Arg Lys Asp Gly Cys Ala Val Leu Asn
        275                 280                 285
Gly Glu Pro Ser Ile Ser Leu Ile Gly Lys Gln Arg Lys Pro Glu Ile
    290                 295                 300
Thr Asp
305
```

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<210> 25072
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25072

```
Ser Lys Ile Arg Leu Ile Leu Tyr Thr Ile Val Thr Thr Tyr Leu Asp
1               5                   10                  15
Ile Thr Lys Ile Thr Ser Asn Leu Leu Arg Tyr Leu Leu Asn Pro Gly
            20                  25                  30
Leu Ala His Phe Asp Ala Ala Asn Arg Ile Ile Leu Tyr Leu Ser Leu
        35                  40                  45
Ile Lys Asp Tyr Ile Leu Glu Tyr Arg Ser Asn Leu Thr Gly Asn Ile
    50                  55                  60
Phe Ile Ile Thr Ser Asn Thr Ala Tyr Ile Asp Tyr Ile Asp Tyr Ser
65                  70                  75                  80
Ser Ser Lys Gly Tyr Leu Ile Lys Leu Phe Ser Ala Ala Val Asn
                85                  90                  95
```

<210> 25073
<211> 221
<212> PRT
<213> A.fumigatus

<400> 25073
Ser Asn Phe Gln Asn Val Asp Ser Gln Lys Lys Ala Ser Thr Arg Phe
1 5 10 15
Ala Ala Ala Asn Gln Glu Asp Ser Leu Lys Asp Leu Ser Arg Ser Ala
20 25 30
Glu Ser Phe Trp Glu Arg Gly His Leu Val Gln Ala Glu Glu Thr Ala
35 40 45
Arg Arg Ala Leu Asp Gly Gln Lys Gln Leu Leu Gly Asp Gly His Arg
50 55 60
Glu Thr Leu Thr Thr Ala Thr Thr Leu Ala Gly Ile Leu Lys Gln Arg
65 70 75 80
Asp Arg Asp Asp Glu Ala Ala Ile Phe Tyr Glu Asn Ile Leu Gln Thr
85 90 95
Ala Asp Glu Val Leu Gly Gly Glu Asp Leu Val Thr Leu Arg Val Leu
100 105 110
Asn Asp Leu Gly Leu Leu Leu Gln Lys Gln Arg Lys Tyr Asp Ala Ala
115 120 125
Arg Arg Met His Glu Gln Ala Val Arg Ala Tyr Ala Ala His Tyr Gly
130 135 140
Glu Glu His Ser Ser Ser Ile Ile Ser Met Thr Asn Leu Ala Arg Val
145 150 155 160
Met Lys Ala Gln Arg Asp Tyr Glu Glu Ala Glu Asp Leu Phe Arg His
165 170 175
Gly Leu Ala Leu Arg Glu Glu Leu Leu Gly Val Thr His Pro Glu Thr
180 185 190
Met Asp Ser Val Arg Phe Leu Gly Arg Ala Gly Gly Ile Thr Gly Gln
195 200 205
Arg Asp Arg Arg Ser Thr Ala Gly Thr Asp Gly Arg Lys
210 215 220

<210> 25074
<211> 176
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (173)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25074
Arg Leu Asn Val Thr Thr Arg Arg Gln Lys Thr Tyr Phe Asp Met Asp
1 5 10 15
Trp Arg Ser Ala Arg Ser Cys Trp Glu Ser Arg Ile Arg Lys Pro Trp
20 25 30
Ile Val Tyr Val Ser Trp Val Glu Gln Ala Glu Ser Leu Val Arg Glu
35 40 45
Thr Ala Gly Arg Gln Leu Ala Leu Met Gly Gly Asn Ser Pro Asp Leu
50 55 60
Leu Gln Cys Met Ser Ser Phe Ala Ile Leu Met Leu Asp His Gly Arg
65 70 75 80

```
Thr Asp Ala Thr Val Glu Ile Ala Lys Arg Ala Val Glu Thr Arg Lys
                85                  90                  95
His Trp Lys Asp Lys His Ala Leu Asp Thr Val Asp Pro Asn Thr Leu
            100                 105                 110
Thr Ser Leu Asn Asn Leu Ala Gly Val Leu Gln Ser Cys Gly His His
        115                 120                 125
Tyr Ser Ala Glu Glu Ile His Arg Glu Val Leu Glu Gly Ser Arg Leu
    130                 135                 140
Val Leu Gly Pro Asp His Pro Asn Thr Leu Ser Thr Cys Ser Asn Leu
145                 150                 155                 160
Ala Gln Leu Leu Asp Lys Ser Ser Pro Arg Ala Gly Xaa His Ile His
                165                 170                 175
```

<210> 25075
<211> 310
<212> PRT
<213> A.fumigatus

<400> 25075

```
Thr Asp Ser Cys Cys Ala Arg Pro Thr Arg Asp Ser Met Gln Leu Trp
1               5                   10                  15
Ala Asp Leu Val Gln Asn Gln Ser Tyr Thr Phe Asp Asn Thr Leu Pro
            20                  25                  30
Tyr Tyr Gln Glu Thr Val Gln Phe Arg Pro Pro Asp Ala Leu Arg Arg
        35                  40                  45
Ala Ala Asn Ala Thr Ala Gln Tyr Asn Pro Asp Ala Phe Ala His Glu
    50                  55                  60
Gly Gln Arg Pro Leu His Val Ser Tyr Pro Val Tyr Ala Met Pro Phe
65                  70                  75                  80
Ser Thr Trp Met Arg Leu Gly Val Glu Glu Val Gly Ile Asn Glu Thr
                85                  90                  95
Leu Asp Phe Asn Ser Gly Ser Leu Phe Gly Ala Gln Tyr Gly Ser Phe
            100                 105                 110
Thr Ile Arg Pro Ser Asp Glu Thr Arg Ser Ser Ser Gln Ala Ala Phe
        115                 120                 125
Leu Ser Pro Leu Pro Ser Ser Ala Tyr Leu Lys Ile Tyr Gln Ser Thr
    130                 135                 140
Met Ala Lys Arg Ile Leu Phe Asn Pro Gln Lys Gln Ala Ser Gly Val
145                 150                 155                 160
Arg Val Thr Gly Leu Leu Arg Thr Phe Thr Leu Asn Ala Lys Arg Glu
                165                 170                 175
Val Ile Ile Ser Ala Gly Val Phe His Thr Pro Gln Leu Leu Met Val
            180                 185                 190
Ser Gly Val Gly Pro Ala Asp Thr Leu Ala Glu His Gly Ile Asp Ile
        195                 200                 205
Val Gln Asp Ala Pro Gly Val Gly Gln Asn Met Trp Asp His Val Phe
    210                 215                 220
Phe Gly Pro Thr Tyr Gln Val Ala Leu Glu Thr Phe Thr Lys Val Pro
225                 230                 235                 240
Thr Asp Pro Trp Tyr Leu Ala Ser Gln Leu Ala Gln Tyr Ile Phe Ser
                245                 250                 255
His Gly Gly Val Leu Thr Ser Pro Val Ile Asp Tyr Leu Ala Phe Glu
            260                 265                 270
Lys Ile Pro Asn Ser Phe Arg Leu Asn Phe Ser Val Gln Thr Ile Arg
        275                 280                 285
Asp Leu Ser Trp Phe Pro Asn Asp Trp Pro Glu Ile Glu Val Gly Arg
```

```
    290                 295                 300
Leu Asp Val Leu Leu Cys
305                 310

<210> 25076
<211> 137
<212> PRT
<213> A.fumigatus

<400> 25076
Gln Tyr Ile Ser Thr Ala Ala Tyr Val Gly Asn Phe Ser Asn Pro Val
1               5                   10                  15
Val Ser Gln Pro Ser Gly Gly Lys Gln Tyr Ala Thr Ile Leu Gly Ala
            20                  25                  30
Leu Val Ala Pro Thr Ser Arg Gly Asn Val Thr Ile Ala Ser Asn Asp
        35                  40                  45
Thr Ser Asp Leu Pro Ile Ile Asn Pro Asn Trp Leu Ser Thr Glu Ala
    50                  55                  60
Asp Gln Gln Ile Ala Ile Ala Ala Tyr Lys Arg Ile Arg Gly Met Phe
65                  70                  75                  80
His Ser Thr Ala Met Ala Pro Ile Val Val Gly Asp Glu Tyr Phe Pro
                85                  90                  95
Gly Ser Gln Tyr Gln Thr Asp Ala Glu Ile Leu Glu Val Ile Arg Asn
            100                 105                 110
Thr Leu Met Thr Ile Tyr His Ala Ala Cys Thr Cys Lys Met Gly Thr
        115                 120                 125
Arg Asp Glu Phe Ser Pro Arg Arg Trp
    130                 135

<210> 25077
<211> 177
<212> PRT
<213> A.fumigatus

<400> 25077
Pro Gly Met Leu Leu Tyr Arg Ser Trp Met Gln Val His Arg Ala His
1               5                   10                  15
Pro Val Tyr Glu Gln Val Ala Gly Glu Leu Arg Lys Met Thr Ala Phe
            20                  25                  30
Ile Arg Gln Glu Ala Leu Glu Lys Ala Arg Glu Ile Gln Leu Lys Ala
        35                  40                  45
Asp Glu Glu Phe Ala Ile Glu Lys Ser Lys Leu Val Arg Gln Glu Thr
    50                  55                  60
Ala Ala Ile Asp Ser Leu Tyr Glu Lys Lys Phe Lys Gln Ala Ala Met
65                  70                  75                  80
Ser Gln Gln Ile Thr Arg Ser Thr Leu Ala Asn Arg Thr Arg Leu Arg
                85                  90                  95
Val Leu Ser Ala Arg Gln Glu Leu Leu Asn Asp Leu Phe Gln Gln Ala
            100                 105                 110
Arg Glu Lys Ile Ser Thr Val Ala Ser His Gly Cys Pro Asp Ile Thr
        115                 120                 125
Arg Pro Phe Leu Lys Gly Leu Asn Leu Gln Gly Pro Gly Ser Leu Leu
    130                 135                 140
Asn Gly Gly Pro Arg Tyr Pro Phe Gly Gly Gln Glu Ile Pro Asp Phe
145                 150                 155                 160
Gln Arg Gly Val Lys Gln Cys His Ser Lys Glu Thr Val Glu Lys Glu
```

165 170 175

Phe

<210> 25078
<211> 125
<212> PRT
<213> A.fumigatus

<400> 25078
Tyr Leu Pro Leu Val Leu Ile Asn Ser Val Gly Leu Ser Asn Ser Met
1 5 10 15
Ala Arg Ile Leu Thr Ala Cys Asn Ala Ile Ser Tyr Phe Ile Phe Ser
20 25 30
Cys Val Ile Ala Thr Met Val Glu Arg Leu Gly Arg Arg Gly Leu Met
35 40 45
Leu Leu Ser Gly Phe Gly Gln Ser Leu Ser Ile Leu Val Ile Thr Ile
50 55 60
Leu Leu Cys Phe Ala Glu Asn Asn Lys Val Tyr Gly Thr Ala Ser Val
65 70 75 80
Ala Phe Phe Phe Leu Tyr His Ile Ala Phe Gly Val Gly Met Leu Gly
85 90 95
Val Pro Trp Leu Tyr Pro Thr Glu Ile Asn Ser Leu Pro Met Arg Thr
100 105 110
Lys Gly Ala Ala Val Ala Thr Ala Thr Asn Trp Leu Val
115 120 125

<210> 25079
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25079
Cys Leu Trp Thr Leu His Arg Ile Thr Asn Phe Ala Ile Val Glu Ile
1 5 10 15
Thr Pro Ile Gly Ile Gln Asn Leu Gly Trp Lys Phe Trp Ile Val Trp
20 25 30
Thr Val Leu Asn Ala Val Phe Leu Pro Val Ile Tyr Phe Leu Tyr Pro
35 40 45
Glu Thr Gly Lys Ser Val Trp Ile Asn Phe Pro Phe Ser Gly
50 55 60

<210> 25080
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25080
Pro Gln Ser Ile Leu Thr Ala Asn Arg Thr Leu Glu Asp Val Asp Ala
1 5 10 15
Tyr Tyr Arg Thr Asn Pro Pro Leu Ile Val Val Leu Asp Pro Asp Ala
20 25 30
Ile Ser Thr Lys Arg Pro Leu Arg Phe Thr Gln His Glu Asp Glu Glu
35 40 45
Leu Gln Arg Lys Val Lys Glu Val Gln Ile Glu Ile Pro Lys Gly Asp
50 55 60

Ser Ala Asp Val Glu His Ala Glu
65 70

<210> 25081
<211> 290
<212> PRT
<213> A.fumigatus

<400> 25081
Ala Lys Pro Gly Asp Val Lys Asp Tyr Phe Trp Ser Ser Thr Gln Ser
1 5 10 15
Leu Phe Thr Asp Gly Trp Thr Leu Val Phe Ser Arg Ile Ser Ser Val
20 25 30
Phe Gly Asp Ile Pro Asn Gly Glu Ser Ala Thr Ala Ala Gly Asp Thr
35 40 45
Ser Ser Arg Val Arg Asp Thr Arg Ser Ile Ala Asp Ser Pro Arg Leu
50 55 60
Val Arg Ala Ala Tyr Lys Ser Leu Gln Leu Val Ala Ser Asp Phe Ile
65 70 75 80
Ala Leu Leu Pro Arg Gln Cys Arg Leu Asp Leu Val Asn Ser Leu Ser
85 90 95
Arg Phe Ala Leu Gln Gln Glu Asp Phe Asn Ile Ser Leu Thr Thr Thr
100 105 110
Ser Ser Phe Trp Asn Ile Ser Asp Phe Leu Gln Gly Gln Ile Glu Glu
115 120 125
Phe Cys Ile Glu Ser His Val Glu Leu Ser Val Ser Glu Glu Thr Leu
130 135 140
Ser Ala Leu Ala Arg Gly Asp Glu Pro Ser Val Ser Arg Asn Ala Leu
145 150 155 160
Trp Leu Leu Leu Leu Leu Arg Ile Val Ser Leu Ala Arg Asp Ser Arg
165 170 175
Leu Glu Ile Arg Asn Cys Ala Ile Gln Thr Leu Leu Arg Ile Phe Asp
180 185 190
Ala Tyr Gly Gln Gln Leu Ser Pro Lys Ala Trp Arg Leu Cys Leu Asn
195 200 205
Arg Val Leu Phe Leu Met Val Glu Thr Ile Glu Leu Glu Leu Ala Asn
210 215 220
Ser Arg Ala Ala Glu Lys Ala Arg Gly Ser Glu Val Val His Ser Trp
225 230 235 240
Ile Glu Thr Ala Val Val Met Ile Lys Gly Ile Ala Asn Leu Ile Thr
245 250 255
Thr Phe Phe Gly Ala Tyr Gly Trp Arg Gln Cys Leu Trp Thr Leu Pro
260 265 270
Gly Asn Ile Ser Trp Asp Ile Cys Thr Ser Leu Ser Ala Gln Thr Ser
275 280 285
Trp Ser
290

<210> 25082
<211> 107
<212> PRT
<213> A.fumigatus

<400> 25082
Arg Ser Ser Val Leu Val Ile Met Glu Tyr Thr Glu His Asp Leu Leu
1 5 10 15

```
Gln Met Ser Arg Leu Thr Leu Ser Leu Thr Arg Thr Ile Ala Ala Pro
            20                  25                  30
Val Met Trp Leu Trp Pro Pro Glu Thr Ala Leu Thr Val Val Pro Asn
        35                  40                  45
Ile Ser His Arg His Cys Asp Leu Thr Gly Ile Lys Leu Cys Thr His
    50                  55                  60
His Glu Val Phe Tyr Asp Met Lys Ala Ser Tyr Ile Ser Ser Leu Pro
65                  70                  75                  80
Leu Leu Phe Tyr Arg Glu Ser Ala Leu Val Ile Gly Ala Arg Asp Lys
                85                  90                  95
Ile Asn Leu Val Pro Phe Met Cys Thr Trp Ile
            100                 105
```

<210> 25083
<211> 118
<212> PRT
<213> A.fumigatus

<400> 25083

```
Asn Gln Phe Cys Pro Phe Val Glu Asp Arg Ser Ile Gly Gly Arg Leu
1               5                   10                  15
Ser Trp Gly Phe His Asp Glu Ala Gln Lys Ala Ile Ala Gln Gly Gln
            20                  25                  30
Ser Trp Ser Lys Val Arg Asp Ala Thr Ala Asp Leu Gln Thr Ser Leu
        35                  40                  45
Arg Ser Met Lys Phe Glu Thr Pro Asp Asn Glu Ala Ala Val Thr Glu
    50                  55                  60
Lys Val Ser Pro Val Phe Pro Ile Lys Ile Gly Ser Leu Ser Pro Leu
65                  70                  75                  80
Thr Ile Leu His Ser Met Arg Arg Ser Phe Arg Pro Cys Arg Arg Gly
                85                  90                  95
Ser Leu Gln Cys Arg Thr Ser Lys Glu Thr Asn Val Arg Arg Gly Asp
            100                 105                 110
Ile Phe Phe His Val Tyr
        115
```

<210> 25084
<211> 140
<212> PRT
<213> A.fumigatus

<400> 25084

```
Leu Thr Ser Gly Ile Thr Ile Ser Val Pro Val Lys Met Gln Arg Ser
1               5                   10                  15
Pro Ala Leu Ala Arg Ser Thr Ile Ser Pro Arg Lys Ile Thr Ser Met
            20                  25                  30
Val Arg Gly Met Leu Pro Val Gly Ile Ser Cys Asp Asp Ser Cys Ser
        35                  40                  45
Phe Thr Phe Cys Gln Ser Thr Asn Val Leu Phe Pro Ile Ser Arg Arg
    50                  55                  60
His Pro Glu Arg Phe Met His Met Ser Phe Gly His Cys Val Gly Ser
65                  70                  75                  80
Val Tyr Arg Lys Val Cys Ser Thr Phe Glu Thr Thr Asp Leu His Cys
                85                  90                  95
Ser Gln Thr Lys Val Pro Arg Glu Ser Ser Gly Arg Ile Ser Asp Val
            100                 105                 110
```

```
Arg Val Thr Val Pro Glu Ile Glu Ser Ser Phe Pro Ile Trp Ala Val
        115                 120                 125
Arg Ser Trp Arg Ser Leu Glu Thr Lys Gly Arg Leu
    130                 135                 140

<210> 25085
<211> 426
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18),(19)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25085
Phe Arg Thr Asn Pro Arg Gln Glu Glu Phe Gly Val Tyr Thr Leu Glu
1               5                   10                  15
Gly Xaa Xaa Tyr Gln Leu Thr Ser Leu Asn Asn Gln Ile Leu Ala Asp
            20                  25                  30
Ala Ile Ala Asn Gln Tyr Phe Gly Phe Gln Pro Phe Leu Thr Arg Ala
        35                  40                  45
Leu His Asn Leu Ile Ala Lys Tyr Glu Pro Glu Tyr Phe Val Ser His
    50                  55                  60
Arg Gln Ala Ser Ser Ala Ser Ser Gln Ala Ser Ser Ser Met Met Ala
65                  70                  75                  80
Ala Asn Ala Ser Val Thr Glu Asn Pro Asp Leu Glu Arg Asn Met Arg
                85                  90                  95
Glu Lys Thr Arg His Gln Gln Thr Asp Lys Leu Phe Ser Leu Ala Phe
            100                 105                 110
Tyr Asn Leu Pro Leu Val Ser Arg Leu Arg Gln Leu Arg Thr Ala Gln
        115                 120                 125
Ile Gly Lys Leu Leu Ser Ile Ser Gly Thr Val Thr Arg Thr Ser Glu
    130                 135                 140
Ile Arg Pro Glu Leu Ser Leu Gly Thr Phe Val Cys Glu Gln Cys Lys
145                 150                 155                 160
Ser Val Val Ser Asn Val Glu Gln Thr Phe Arg Tyr Thr Glu Pro Thr
                165                 170                 175
Gln Cys Pro Asn Asp Ile Cys Met Asn Arg Ser Gly Trp Arg Leu Asp
            180                 185                 190
Ile Gly Lys Ser Thr Phe Val Asp Trp Gln Lys Val Lys Leu Gln Glu
        195                 200                 205
Ser Ser His Glu Ile Pro Thr Gly Ser Met Pro Arg Thr Met Asp Val
    210                 215                 220
Ile Leu Arg Gly Glu Met Val Asp Arg Ala Lys Ala Gly Glu Arg Cys
225                 230                 235                 240
Ile Phe Thr Gly Thr Leu Ile Val Ile Pro Asp Val Ser Gln Leu Gly
                245                 250                 255
Leu Pro Gly Val Arg Pro Glu Ala Val Arg Asp Asn Gly Ala Phe Arg
            260                 265                 270
Ser Gly Asp Val Gly Gly Gly Gly Val Thr Gly Leu Lys Ser Leu Gly
        275                 280                 285
Val Arg Asp Leu Thr Tyr Arg Leu Ala Phe Leu Ala Cys Met Val Thr
    290                 295                 300
Pro Asp Thr Thr Thr Pro Gly Gln Gln Ser Asn Gln Gln Leu Asn Gly
305                 310                 315                 320
```

```
Gln Ser His Asn Ile Leu Ala Ser Leu Asn Gln Asn Asn Glu Pro Glu
                325                 330                 335
Val Asp Glu Asp Lys Ala Gln Glu Ala Leu Leu Gln Ser Phe Thr Pro
            340                 345                 350
Tyr Glu Val Gln Asp Leu Lys Asn Leu Val His Ser Glu Tyr Ile Tyr
        355                 360                 365
Ser Arg Leu Val Asp Ser Ile Ala Pro Met Ile Tyr Gly His Arg Gln
    370                 375                 380
Ile Lys Lys Gly Leu Leu Leu Gln Leu Ile Gly Gly Val Ser Lys His
385                 390                 395                 400
Thr Glu Gln Glu Asn Met Gln Leu Arg Gly Asp Ile Asn Ile Cys Ile
                405                 410                 415
Val Gly Asp Pro Ser Thr Ser Lys Ser Cys
            420                 425
```

<210> 25086
<211> 368
<212> PRT
<213> A.fumigatus

```
<400> 25086
Asn Gln Gly Ser Lys Gln Asp Val Glu Ala Leu Val Asp Tyr Ile Tyr
1               5                   10                  15
Asp Thr Lys Lys Gly Leu Gly Trp Asp Leu Asp Phe Val Val Pro Phe
            20                  25                  30
Ala Ala Ile Pro Glu Asn Gly Arg Glu Ile Asp Ser Ile Asp Ser Lys
        35                  40                  45
Ser Glu Leu Ala His Arg Ile Met Leu Thr Asn Leu Leu Arg Leu Leu
    50                  55                  60
Gly Cys Ile Lys Thr Gln Lys Gln Thr His Gly Phe Glu Thr Arg Pro
65                  70                  75                  80
Ala Gln Val Ile Leu Pro Leu Ser Pro Asn His Gly Thr Phe Gly Asn
                85                  90                  95
Asp Gly Leu Tyr Ser Glu Ser Lys Leu Ala Leu Glu Thr Leu Phe Asn
            100                 105                 110
Arg Trp Tyr Ser Glu Asn Trp Ser Asn Tyr Leu Thr Ile Cys Gly Ala
        115                 120                 125
Val Ile Gly Trp Thr Arg Gly Thr Gly Leu Met Ser Gly Asn Asn Met
    130                 135                 140
Val Ala Glu Gly Val Glu Lys Leu Gly Val Arg Thr Phe Ser Gln Gln
145                 150                 155                 160
Glu Met Ala Phe Asn Leu Leu Gly Leu Met Ala Pro Ala Ile Val Asn
                165                 170                 175
Leu Cys Gln Leu Asp Pro Val Trp Ala Asp Leu Asn Gly Gly Leu Gln
            180                 185                 190
Phe Ile Pro Asp Leu Lys Ser Leu Met Thr Lys Leu Arg Thr Asp Ile
        195                 200                 205
Met Glu Thr Ser Asp Val Arg Gln Ala Val Ile Lys Glu Thr Ala Ile
    210                 215                 220
Glu Asn Lys Val Val Asn Gly Glu Glu Ser Glu Leu Leu Tyr Lys Lys
225                 230                 235                 240
Val Ile Ala Glu Pro Arg Ala Asn Ile Lys Phe Gln Phe Pro Thr Leu
                245                 250                 255
Pro Asp Trp Glu Gln Asp Val Lys Pro Leu Asn Glu Ser Leu Lys Gly
            260                 265                 270
Met Val Asn Leu Asp Lys Val Val Val Val Thr Gly Phe Ala Glu Val
```

```
        275                 280                 285
Gly Pro Trp Gly Asn Ser Arg Thr Arg Trp Glu Met Glu Ala Tyr Gly
    290                 295                 300
Lys Phe Ser Leu Glu Gly Cys Val Glu Met Ala Trp Ile Met Gly Leu
305                 310                 315                 320
Ile Lys His His Asn Gly Pro Leu Lys Gly Lys Ala Tyr Ser Gly Trp
                325                 330                 335
Val Asp Ala Lys Thr Gly Glu Pro Val Asp Asp Lys Asp Val Lys Ala
            340                 345                 350
Lys Tyr Glu Lys Tyr Ile Leu His Asp Gly Val Glu Val Arg Val Met
        355                 360                 365
```

<210> 25087
<211> 147
<212> PRT
<213> A.fumigatus

<400> 25087

```
Pro Leu Ser Arg Phe Val Leu Lys Thr Lys Glu Gln Arg Ala Ala Glu
1               5                   10                  15
Lys Ala Met Met Asp Lys Ser Pro Leu Asn Thr Leu Thr Leu Glu Asp
            20                  25                  30
Trp Leu Glu Ser Glu Arg His Lys Leu Thr Gly Asn Leu Thr Pro Val
        35                  40                  45
Thr Pro Glu Thr Phe Ala Lys Trp Lys Lys Glu Arg Leu Asp Lys Lys
    50                  55                  60
Ala Ala Glu Glu Gln Ala Arg Lys Ala Lys Glu Ala Thr Gly Arg Ala
65                  70                  75                  80
Leu Phe Glu Ser Gly Asn Trp Arg Ala Glu Glu Glu Ser Asp Asp Glu
                85                  90                  95
Asp Gly Asp Asp Gly Thr Trp Asn Leu Glu Ala Leu Arg Arg Glu Thr
            100                 105                 110
Glu Lys Leu Arg Glu Lys Lys Glu Glu Glu Arg Leu Ala Arg Leu Ala
        115                 120                 125
Gly Ile Ser Leu Thr Pro Ser Ser Asn Asp Glu Thr Val Ala Gln Glu
    130                 135                 140
Gly Glu Gly
145
```

<210> 25088
<211> 91
<212> PRT
<213> A.fumigatus

<400> 25088

```
Thr Asn Tyr Ser Ser Arg Cys Ser Ile Gly Gln Met Gly Arg Thr Asp
1               5                   10                  15
Leu Arg Lys Val Val Leu Ser Lys His Gly Asn Pro Arg Thr Thr Thr
            20                  25                  30
Glu Lys Val Cys Lys Tyr Phe Ile Glu Ala Val Glu Asn Gln Lys Tyr
        35                  40                  45
Gly Trp Phe Trp Val Cys Pro Asn Gly Gly Asp Lys Cys Met Tyr Lys
    50                  55                  60
His Ser Leu Pro Pro Gly Tyr Val Pro Val Pro Val Ser Lys Ala Leu
65                  70                  75                  80
Tyr Pro Gly Val Asn Leu Tyr Leu Asp Ser Cys
```

85 90

<210> 25089
<211> 295
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (155)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25089
Ile Pro Arg His Arg Ser Thr Cys Thr Lys Pro Thr Ser Arg Thr Arg
1 5 10 15
Thr Arg Ile Trp Thr Ala Phe Arg Arg Leu Thr Ala Asp Glu Ile Leu
20 25 30
Pro Glu Val Gln Trp Gly Val Arg Tyr His Thr Tyr Val Val Asn Ser
35 40 45
Pro Val Tyr Cys Ala Tyr Leu Leu Arg Lys Phe Val Leu Asn Gly Gly
50 55 60
Gln Thr Arg Glu Tyr Thr Leu Val Asp Pro Met Glu Ala Phe Glu Leu
65 70 75 80
Ser Gly Thr Gly Thr Gly Pro Val Arg Thr Val Val Asn Cys Ser Gly
85 90 95
Leu Gly Phe Gly Asp Pro Lys Ser Phe Ile Ile Arg Gly Met Ser Arg
100 105 110
Ala Leu Ser Leu Gln Val Leu Ile Gln Leu Leu Ile Arg Leu Pro Gly
115 120 125
Gln Thr Cys Leu Val Arg Asn Pro Cys Ser Val Thr Ile Thr Arg Gln
130 135 140
Asn Ser Asp Gly Thr Trp Ser Phe Cys Ile Xaa Arg Pro Leu Ser Gly
145 150 155 160
Gly Thr Ile Ile Gly Gly Thr Lys Gln Pro His Asp Trp Asn Pro Thr
165 170 175
Pro Ser Leu Glu Thr Arg Lys Gln Leu Leu Ser Ser Ala Glu Lys Trp
180 185 190
Phe Pro Phe Thr Glu Gly Ser Gly Gly Gln Phe Asp Val Ile Arg Asp
195 200 205
Ile Val Gly Arg Arg Pro Ala Arg Glu Gly Gly Met Arg Ile Glu Ala
210 215 220
Glu Arg Val Gly Gly Asp Arg Phe Ile Val His Ala Tyr Gly Ala Gly
225 230 235 240
Gly Arg Gly Phe Glu Leu Ser Trp Gly Val Ala Gln Asp Val Val Gln
245 250 255
Leu Met Phe Glu Asn Gly Leu Ala Arg Gln Lys Val Ser Leu Tyr Ile
260 265 270
Ile Leu Glu Val Ser Thr His Gly Ser Phe Thr Asn Asn Lys Ala Leu
275 280 285
Pro Val Ala Asp Ser Leu Tyr
290 295

<210> 25090
<211> 74
<212> PRT
<213> A.fumigatus

<400> 25090
Pro Arg Val Leu Thr Ala Lys Pro Gln Gly Glu Asn Asn Gln Ser Thr
1 5 10 15
Pro Gln Asn Ile His Asn Phe Lys His Leu Ala Arg Gly Gly Ser Ile
20 25 30
Leu Gln Gly Ser Lys Cys Leu Asp Gly Glu Glu His Leu Asp Ser Pro
35 40 45
Pro Pro Glu Tyr Leu His Glu Ala Asn Ile Gln Asn Ala Tyr Ala His
50 55 60
Leu Asp Gly Phe Pro Pro Pro Asn Ser Arg
65 70

<210> 25091
<211> 163
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25091
Thr Tyr Cys Thr Thr Asp Asp Arg His Asp Met Thr His Leu Gln Val
1 5 10 15
Asn Leu Ser Ala Val Ala Pro Ser Ala Thr Pro Pro Ile Ser Leu Pro
20 25 30
Ile Asn Val Ala Ile His Asn Pro Ala Ala Thr Pro Val Thr Phe Val
35 40 45
Asn Trp Gly Thr Pro Phe Asp Pro Lys Ala Asn Leu Xaa Gly Val Phe
50 55 60
Gln Ile Asn Asp Thr Ala Thr Asp His Pro Ile Thr Leu Asp Thr Ile
65 70 75 80
Lys Phe Gln Arg Arg Leu Pro Pro Ser Arg Glu Asp Leu Val Glu Ile
85 90 95
Pro Ala Glu Ser Ser Met Glu Arg Thr Ile Thr Ile Pro His Val Pro
100 105 110
Leu Glu Glu Gly His Glu Tyr Ala Val Gln Ala Lys Gly Ile Trp His
115 120 125
Gly Ile Trp Glu Cys Ala Arg Asn Gln Val Thr Asp Ala Gln Leu Gln
130 135 140
Glu Leu Asp Gln Arg Gly Glu Phe Glu Ser Glu Arg Ala Leu Phe Lys
145 150 155 160
Val Thr Gln

<210> 25092
<211> 135
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (44)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25092
Pro Leu Gly Arg Arg Ser Leu Arg His Ser Pro His Gln Pro Pro His
1 5 10 15
Gln Arg Arg His Pro Gln Pro Ser Ser His Pro Ser His Leu Arg Gln
20 25 30
Leu Gly His Pro Val Arg Pro Lys Ser Gln Pro Xaa Gly Arg Leu Pro
35 40 45
Asp Gln Arg His Arg His Arg Ser Ser Asn His Pro Arg His His Gln
50 55 60
Val Pro Ala Pro Ala Ala Ser Val Ala Gly Gly Ser Arg Arg Asp Pro
65 70 75 80
Arg Arg Glu Leu His Gly Ala Asp His Tyr His Pro Thr Cys Ala Ala
85 90 95
Gly Arg Arg Pro Arg Val Arg Arg Ala Gly Gln Gly His Leu Ala Trp
100 105 110
Asn Leu Gly Val Cys Ala Gln Pro Gly Asp Gly Cys Ala Ala Ala Gly
115 120 125
Ala Arg Pro Glu Gly Gly Val
130 135

<210> 25093
<211> 176
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (170)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25093
Pro Leu His Gly Ala Val Ala Cys Ser Asn Leu Cys Leu Leu Ser Gln
1 5 10 15
Val Asn Gln Ser Ile Ser Pro Ser Ser Cys Gly Lys Ala Thr Met Gln
20 25 30
Thr Thr Ile Asp Ile Pro Thr Asp Ala Ala Arg Val Phe Ser Ile Leu
35 40 45
Ala Gln Gly Gly Ile Gly Ile Val Pro Ser Ser Val Gly Tyr Gly Ile
50 55 60
Ile Ala Thr Glu Pro Pro Ala Leu Gln Arg Ile Tyr Thr Val Lys Arg
65 70 75 80
Arg Gln Pro His Lys Arg His Ala Ile Ile Gly Ser Tyr Ala Leu His
85 90 95
Arg Glu Ile His Val Leu Pro Pro Asp Lys Met Ala Leu Val Arg Trp
100 105 110
Leu Thr Val Asp Leu Asn Leu Pro Leu Gly Val Ile Ala Arg Tyr Arg
115 120 125
Arg Asp His Pro Leu Leu Ala Arg Leu Asp Glu Glu Thr Arg Ala Ala
130 135 140
Ser Ser Met Asp Gly Thr Met Ala Met Leu Val Asn Gly Gly Pro Phe
145 150 155 160
Gln Glu Glu Leu Val Arg Val Ala Ala Xaa Ala Gly Arg Ala Val Leu
165 170 175

<210> 25094

<211> 80
<212> PRT
<213> A.fumigatus

<400> 25094
Pro Val Phe Ser Phe Leu Leu Pro Pro Leu Phe Thr Tyr Pro Ser Pro
1 5 10 15
Leu Ser Val Leu Ala Cys Pro Ser Phe Ser Pro Ser Val Pro Leu Ser
20 25 30
Leu Phe Pro Ser Leu Ile Ser His Phe Gln Leu Leu Cys Ser Leu Leu
35 40 45
Ser Ile Phe His Phe Leu Ile Pro Val Pro Phe Ile Phe Leu Pro Ser
50 55 60
Cys Thr Leu Phe Ser Pro Ser Ser Phe Pro Tyr Ile Leu Phe Leu Leu
65 70 75 80

<210> 25095
<211> 572
<212> PRT
<213> A.fumigatus

<400> 25095
Cys Cys Gly Pro Phe Gln Pro Arg Gly Glu Asp Val Gln Ser Glu Arg
1 5 10 15
Leu Lys Lys Val Leu Gly Glu Val Leu Asp Gly Tyr Pro Gly Val Thr
20 25 30
Met Thr Leu Glu Arg Val Glu Phe Arg Ser Pro Phe Lys Pro Phe Val
35 40 45
His Arg Trp Glu Arg Phe Ala Ser Ala Arg Asp Gln Glu Leu Asp Ser
50 55 60
Val Thr Lys Ser His Val Asp Leu Leu Tyr Thr Thr Leu Glu Glu Glu
65 70 75 80
Leu Arg Asp Thr Ile Ala Arg Lys Asn Asp Leu Val Leu Asn Gly Val
85 90 95
Val Thr His Asp Leu Leu Trp Thr Ile Phe Glu Pro Glu Asp Glu Ile
100 105 110
Phe Ser Met Val Asp Gly Arg Pro Arg Ala Phe Arg Phe Lys Ser Gly
115 120 125
Glu Thr Asn Cys Arg Thr Gly Ala Phe Asp Leu Glu Ala Gln Tyr Ile
130 135 140
Asp Phe Asp Gly Glu Asp Phe Gly Phe Arg Asp Lys Asp Phe Glu Val
145 150 155 160
Val Pro Phe Gly Gly Thr Met Pro Ile Thr Ala Leu Pro Val Phe Pro
165 170 175
Leu Arg His His Ser Asp Gln Ile Ser Ile Arg Asp Ala Leu Ile Ala
180 185 190
Arg Gly Ala Val Trp Glu Thr Tyr Lys Gly Tyr His Phe Lys Tyr Tyr
195 200 205
Glu Gly Leu Ala Val Gly Arg Tyr Met Arg Arg Glu Phe Lys Phe Asn
210 215 220
Ile Lys Ser Arg Ile Ile Ile Asp Ala Glu Ala Phe Asn Thr Phe Asn
225 230 235 240
Pro Asp Glu Ser Val Ser Val Tyr Pro Thr Cys Gly Asn Glu Leu Thr
245 250 255
Asp Asp Glu Arg Leu Leu Ala Ala Pro Thr Leu Arg Gly Tyr Ser Leu
260 265 270

```
Lys Glu Lys Arg Trp Leu Glu Phe Asn Leu Asp Ser Val Lys Glu Ile
        275                 280                 285
Val Trp Asp Ser Gln Ala Phe Asp Ser Leu Val Leu Pro Gln Asp Gln
    290                 295                 300
Gln Asp Leu Lys Thr Leu Ile Leu Ala Phe Ala Asn Ala Gln Ser Lys
305                 310                 315                 320
Gln Ala Asp Ser Phe Asp Asp Val Val Gln Gly Lys Gly Arg Gly Ile
                325                 330                 335
Ile Met Gln Leu Ser Gly Pro Pro Gly Val Gly Lys Thr Leu Thr Ala
            340                 345                 350
Glu Ser Val Ala Glu Val Met Lys Val Pro Leu Tyr Val Met Ser Ala
        355                 360                 365
Gly Asp Leu Gly Thr Ser Ala Ser Arg Val Glu Asp Ala Phe Lys Asp
    370                 375                 380
Ile Leu Arg Met Val Leu Asn Trp Gly Gly Ser Leu Leu Phe His Tyr
385                 390                 395                 400
Thr Tyr Val Ser Phe Pro Ser Pro Pro Leu Ser Asp Phe Phe Ser Thr
                405                 410                 415
His His Cys Ser Thr Phe Pro Pro Pro Leu Pro Phe Leu Thr Cys Val
            420                 425                 430
Phe Phe Pro Ser Ser Pro Ser Phe His Leu Pro Phe Pro Ser Leu Gly
        435                 440                 445
Pro Cys Leu Pro Leu Val Leu Ser Leu Arg Ser Ser Phe Pro Leu Pro
    450                 455                 460
Leu Ser His Leu Pro Leu Pro Ile Thr Met Phe Thr Ser Ile Tyr Leu
465                 470                 475                 480
Pro Phe Ser Tyr Pro Arg Ser Leu His Leu Ser Ser Leu Leu Tyr Pro
                485                 490                 495
Phe Phe Pro Phe Phe Leu Pro Leu His Leu Ile Pro Ser Val Val Ser
            500                 505                 510
Ala Pro Ser Ser Phe Phe Pro Leu Ala Phe Ser Phe Gly Thr Pro Leu
        515                 520                 525
Leu Ile His Leu Ala Ser Asn Gly Leu Ser Ser Ser Pro Pro Gly Tyr
    530                 535                 540
His Leu Ser Phe Leu Tyr Arg Phe Leu Asn Phe Pro Phe Leu Tyr Leu
545                 550                 555                 560
Ser Leu Pro Phe Ser Leu Ser Ile Cys Ser Ser Ile
                565                 570
```

<210> 25096
<211> 80
<212> PRT
<213> A.fumigatus

<400> 25096

```
Ser Ile His Thr Phe Ala Thr Asp Ala Ile Asn Glu Phe Thr Val Val
1               5                   10                  15
Arg Ser Ile Ser Asp Met Pro His Ser Glu Leu Cys Ser Tyr Cys Tyr
            20                  25                  30
Val Thr Arg Tyr Lys Met Met Gln Ala Thr Pro Tyr Ser Ile Tyr Asp
        35                  40                  45
Lys Thr Tyr Gln Ser Asp Leu Glu Phe Ile His Ser Lys Cys Gly Leu
    50                  55                  60
Ser Gly Pro Thr Ser Ile Leu Pro Pro Leu Gln Glu Ser Pro Asp Pro
65                  70                  75                  80
```

<210> 25097
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25097
Pro Pro Thr Val Gly Val Gly Ile Lys Ser Ala Ile Ser Ala Asp Tyr
1 5 10 15
Val Asn Ser Arg Phe Gly Ser Leu Glu Gly His His Pro Ser Pro Phe
20 25 30
Val Gln Glu Val Ile Ala Phe Thr Phe Leu Val Tyr Leu Leu Asn Tyr
35 40 45
Asp Ile Tyr Trp Asn Pro Phe Val Ser Ile Glu Cys Thr Ile Arg Asp
50 55 60
Trp
65

<210> 25098
<211> 288
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25098
Ser Gly Ala Val Ala Gly Leu Thr Val Asp Cys Ser Leu Tyr Pro Leu
1 5 10 15
Asp Thr Ile Lys Thr Arg Leu Gln Lys Ala Arg His His Ala Pro Ser
20 25 30
Thr Pro Gly Ser Thr Leu Ser Xaa Arg Gln Thr Ile Arg Gly Ile Tyr
35 40 45
Ala Gly Leu Pro Ser Val Leu Phe Gly Ser Ala Pro Ser Ala Ala Ser
50 55 60
Phe Phe Ile Val Tyr Asp Gly Val Lys Arg Ser Leu Phe Pro Pro Ala
65 70 75 80
Gly Ser Asp Thr Ala Ala Thr Arg Ser Arg Ile Val Ile Thr His Ser
85 90 95
Leu Ala Ser Ser Met Gly Glu Ile Ala Ala Cys Ala Val Arg Val Pro
100 105 110
Thr Glu Val Val Lys Gln Arg Ala Gln Ala Gly Leu Phe Gly Gly Ser
115 120 125
Ser Leu Leu Ala Leu Lys Asp Ile Leu Ala Leu Arg His Pro Asp Pro
130 135 140
Thr Gly Ile Ala Lys Arg Gly Tyr Gly Gln Val Ile Arg Glu Met Tyr
145 150 155 160
Arg Gly Ala Gly Ile Thr Ile Ala Arg Glu Ile Pro Phe Thr Val Leu
165 170 175
Gln Phe Thr Met Trp Glu Ser Met Lys Glu Ala Tyr Ala Lys Arg Met
180 185 190
Leu Val Pro Ser Thr Arg Glu Ser Gly Ala Val Ser Gln Ile Pro Ala
195 200 205
Ser Thr Ser Ala Met Phe Gly Ser Val Ala Gly Ala Ile Ala Ala Gly
210 215 220

```
Leu Thr Thr Pro Leu Asp Val Ile Lys Thr Arg Val Met Leu Ala Arg
225                 230                 235                 240
Arg Gly Glu Gly Gly Asp Ala Arg Val Arg Ile Arg Asp Val Val Gln
                245                 250                 255
Glu Ile Ser Gly Glu Gly Phe Gly Ala Phe Trp Arg Gly Met Gly Pro
            260                 265                 270
Arg Val Ala Trp Ile Phe Phe Thr Thr Pro Ala Gly Arg Ser Cys Asn
        275                 280                 285
```

<210> 25099
<211> 355
<212> PRT
<213> A.fumigatus

<400> 25099

```
Arg Gly Ser Phe Ala Pro Arg Gly Glu Asp Glu Ile Ala Lys Met Gln
1               5                   10                  15
Ala Glu Ala Gly Gly Asn Gly Asn Glu Met Asp Asp Tyr Ala Arg Val
            20                  25                  30
Thr Ser Ala Phe Glu Val Thr Thr Leu Asp Asp Gly Glu Glu Gln Gly
        35                  40                  45
Glu Pro Glu Asp Lys Glu Asp Pro Glu His Leu Val Gly Phe Ala Arg
    50                  55                  60
Leu Tyr Ser Gly Thr Leu Ser Val Gly Asp Glu Val Tyr Val Leu Ala
65                  70                  75                  80
Pro Lys Phe Ser Pro Glu His Pro His Ala His Pro Glu Pro Gln Lys
                85                  90                  95
Val Thr Val Thr Asp Leu Tyr Leu Leu Met Gly Arg Ser Leu Glu Pro
            100                 105                 110
Leu Lys Thr Val Pro Ala Gly Val Ile Phe Gly Ile Gly Gly Leu Ala
        115                 120                 125
Gly His Ile Leu Lys Asn Gly Thr Leu Cys Ser Gln Leu Glu Gly Ser
    130                 135                 140
Ile Asn Leu Ala Gly Val Ser Leu Asn Ala Pro Pro Ile Val Arg Val
145                 150                 155                 160
Ser Leu Glu Pro Ala Asn Pro Ala Asp Leu Asn Lys Met Val Thr Gly
                165                 170                 175
Leu Arg Leu Leu Glu Gln Ser Asp Pro Cys Ala Gln Tyr Glu Val Leu
            180                 185                 190
Pro Ser Gly Glu His Val Ile Leu Thr Ala Gly Glu Leu His Leu Glu
        195                 200                 205
Arg Cys Ile Lys Asp Leu Arg Glu Arg Phe Ala Lys Cys Glu Ile Gln
    210                 215                 220
Thr Gly Gln Thr Ile Val Pro Tyr Arg Glu Thr Ile Val Ser Ala Pro
225                 230                 235                 240
Glu Met Ala Pro Pro Lys Lys Pro Asp Leu Gly Arg Gly Cys Val Leu
                245                 250                 255
Ala Val Ser Pro Ser Lys Gln Leu Thr Val Lys Leu Arg Val Val Pro
            260                 265                 270
Leu Pro Glu Ala Val Thr Asp Phe Ile Ser Lys Asn Val Gly Thr Ile
        275                 280                 285
Lys Arg Leu Gln Ser Glu Lys Arg Ser Ala Gly Glu Thr Lys Ser Asp
    290                 295                 300
Ala Lys Ala Ser Asn Gly Ser Leu Glu Thr Thr Gln Gln Ala Glu Ser
305                 310                 315                 320
Gly Asp Ala Ser Gly Glu Ala Arg Glu Gly Ser Leu Leu Ser Gln Glu
```

```
                325                 330                 335
Asp Ile Ile Arg Glu Leu Thr Arg Ile Phe Asn Glu Glu Asp Lys Glu
            340                 345                 350
Gly Lys Glu
        355
```

<210> 25100
<211> 101
<212> PRT
<213> A.fumigatus

<400> 25100

```
Ala Asn Arg Arg Pro Asn Ile Gly Thr Trp His Pro Leu Gly Arg Val
1               5                   10                  15
Thr Gly Gly Thr Leu Tyr Pro Gly Leu Met Val Thr Ser Gly Val Ile
            20                  25                  30
Tyr His Ile Leu Arg Phe Leu Thr Ile Pro Val Asp Ile Arg Asn Ile
        35                  40                  45
Cys Val Leu Leu Ala Pro Gly Phe Ser Gly Leu Thr Ala Leu Ala Met
    50                  55                  60
Tyr Leu Leu Thr Ser Glu Met Ser Pro Ser Pro Ser Ala Gly Leu Leu
65                  70                  75                  80
Ala Ala Ala Phe Met Gly Ile Ala Pro Gly Tyr Ile Ser Arg Ser Val
                85                  90                  95
Ala Val Lys Leu Arg
            100
```

<210> 25101
<211> 94
<212> PRT
<213> A.fumigatus

<400> 25101

```
Leu Ile Thr Phe Phe Leu Pro Gly Phe Glu Ser Ile Ile His Glu Cys
1               5                   10                  15
Lys Tyr Arg Ser Ile Val Tyr Leu Arg Pro Ser Ala Phe Asn Gly Pro
            20                  25                  30
Arg Leu Asp Glu Leu Ile Leu Met Leu Arg Asp Ile Val Asp Pro Trp
        35                  40                  45
Phe Asn Phe Arg Ala Thr Lys Tyr Leu Val Gln Asn Gly Phe Tyr Ser
    50                  55                  60
Phe Trp Asp Trp Phe Asp Asp Arg Met Trp Phe Pro Thr Ala Gln Glu
65                  70                  75                  80
Cys Met Lys Gln Gln Val Thr Cys Pro Gly Val Leu Leu Gly
                85                  90
```

<210> 25102
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25102

```
Thr Arg Thr Phe His Pro Val Val Lys Ile Trp Ala Glu Gln Thr Asp
1               5                   10                  15
Leu Thr Leu Leu Ile Leu Val Ser Leu His Thr Leu Glu Thr Leu Glu
            20                  25                  30
```

```
Ser Ile Met Glu His Ala Ser Arg Arg Val Glu Ala Lys Val Leu Val
        35                  40                  45
Arg Asn Asp Ala Arg Ser Val Pro Thr Ile Gly Arg
    50                  55                  60
```

<210> 25103
<211> 105
<212> PRT
<213> A.fumigatus

<400> 25103

```
Gly Ala Gly Gly Thr Lys Arg Ser Cys Val Arg Lys Asp Leu His Trp
1               5                   10                  15
Tyr Gly Ser Leu Phe Ser Gly Ile Arg Ala Asn Leu Gly Thr Asn Ala
            20                  25                  30
Asn Ile Ser Val Asp His Met Leu Ser Ile Glu Trp Ser Ala Ala Asn
        35                  40                  45
Gly Trp Asn Ala Pro Arg Ile Val Pro Tyr Gln Asn Leu Ser Leu Asp
    50                  55                  60
Pro Ser Ala Cys Val Phe His Tyr Ala Phe Glu Cys Phe Glu Gly Met
65                  70                  75                  80
Lys Ala Tyr Lys Asp Lys Lys Gly Gln Ile Arg Leu Phe Arg Pro Asp
                85                  90                  95
Leu His His Gly Val Glu Gly Pro Arg
            100                 105
```

<210> 25104
<211> 295
<212> PRT
<213> A.fumigatus

<400> 25104

```
Lys Arg Asn Tyr Cys Pro Val Pro Ser Val Lys Thr Asn Trp Pro Thr
1               5                   10                  15
Trp Lys His Val His Lys His Leu Thr Gly Tyr Leu Arg Met Gln Thr
            20                  25                  30
Gly Asn Leu Pro Ser Gly Leu Asp Pro Ser Pro Asp Leu Gln Ala Ile
        35                  40                  45
Ala Glu Lys Asn Ser Val Lys Glu Thr Asn Lys Leu Leu Lys Leu Leu
    50                  55                  60
Leu Ile Ala Val Ile Arg Ser Pro Asn Pro Glu Arg Phe Val Asn Gln
65                  70                  75                  80
Ile Gln Asp Leu Ser Leu Gln Ala Gln Glu Gly Leu Lys Ile Ala Ile
                85                  90                  95
Glu Glu Ser Asn Gly Glu Leu Ile Pro Ser Asp Val Glu Asp Glu Thr
            100                 105                 110
Thr Glu Asp Thr Lys Lys Gln Asp Leu Ser Val Asp Leu Glu Leu Gln
        115                 120                 125
Phe Glu Glu Arg Val Gly Lys Val Ile Ala Glu Asn Asp Arg Leu Thr
    130                 135                 140
His Glu Lys Lys Glu Leu Glu Lys Ala Leu Glu Asp Leu His Asn Arg
145                 150                 155                 160
Leu Ala Arg Leu Gln Glu Asn Asn Asp Thr Leu Gln Ser Arg Leu Ala
                165                 170                 175
Ser Thr Glu Asp Arg Leu Val Thr Leu Lys Ser Gly Lys Gly Asp Ile
            180                 185                 190
```

```
Gly Val Ser Ala Lys Ala Leu Glu Ser Lys Thr Arg Gln Gln Glu Asp
        195                 200                 205
Leu Ile Ala Ser Gln Glu Glu Arg Ile Ala Ala Ala Gln Asp Glu Ile
    210                 215                 220
Asp Thr Leu Arg Met Thr Val Glu Ser Leu His Val Lys Asn Gln Arg
225                 230                 235                 240
Phe Gln Lys Leu Gln Asp Asp Tyr Asp Glu Leu Lys Thr Asp Arg Asp
                245                 250                 255
Gln Leu Ala Arg Lys Ala Asn Ala Ala Glu Lys Tyr Arg Gln Lys Leu
            260                 265                 270
Gln Ala Ser Gln Ala Phe Glu Lys Glu His Gln Leu Pro Leu Arg Lys
        275                 280                 285
Ser Pro Ile Arg Ala Ser Leu
    290                 295
```

<210> 25105
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25105

```
Arg Tyr Gly Pro Arg Thr Tyr His Arg Leu Thr Ala Val Gly Gln Trp
1               5                   10                  15
Ser Leu His Pro Phe Phe Gly Arg Ser Ser Ser Glu Ile Tyr Ser Lys
            20                  25                  30
Tyr Gln Lys Val Tyr Glu Ser Arg Tyr Tyr His Ile Gln Ile Ser Ala
        35                  40                  45
Ala Gln Ala Gln Leu Gly His His Tyr Ser Pro Leu Phe His Phe Asn
    50                  55                  60
Thr Ile Val Thr Phe Ser Phe Cys Lys Leu Ser Ala Val Asn Leu Ser
65                  70                  75                  80
Gly Leu Arg Asn Pro Gln Ser Ser Pro Arg Gly Trp Lys Asp Gln Arg
                85                  90                  95
Cys Arg
```

<210> 25106
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (58),(61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25106

```
Phe His Cys Ile Val Phe Ala Gly Lys Asp Pro Ser Arg Ala Leu Ala
1               5                   10                  15
Cys Ser Ser Leu Lys Pro Glu Asp Cys Arg Pro Asp Trp Tyr Asp Leu
            20                  25                  30
Asp Asp Lys Glu Lys Thr Val Leu Ser Glu Trp Phe Thr Phe Phe Ser
        35                  40                  45
Lys Lys Ile His Ile Leu Arg Lys Val Xaa Asp Ala Xaa Asn Tyr Tyr
    50                  55                  60
Cys Pro
```

65

<210> 25107
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25107
Pro His His Tyr Gly Gly Ile Val Gln Met Arg Arg Tyr Val Ile Phe
1 5 10 15
Ser Val Gly Phe Val Asn Asp Gly Lys Gln Leu Thr Asp Ala Leu Phe
20 25 30
Ala Gly Thr Asp Pro Ser Arg Pro Thr Leu Val Ala Ile Lys Gly Ile
35 40 45
Val Phe Asp Val Ser Lys Asn Pro Ala Tyr Gly Pro Asn Gly Gln Tyr
50 55 60
Arg Gly Arg Leu Ile Leu Pro Leu Pro Cys Ala Ala Lys
65 70 75

<210> 25108
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25108
Ile Thr Ser Val Cys Gly Leu Pro Ser Gln Ser Gly Asp Ser Val Arg
1 5 10 15
Val Met Val Ile Ser Leu Leu Arg Tyr Tyr Leu Thr Asp Tyr Ile Gly
20 25 30
Val Tyr Arg Thr Arg Val Ala Ser Leu Lys Ser Thr Ala Ser Arg Leu
35 40 45
Lys Val Tyr Asn Asp Pro Tyr Ile Pro Pro Ser Ile Leu Glu Asp Ala
50 55 60
Ser Lys Val Pro Phe Asn Lys Arg Gln Val Thr Val Val Asn Gly Ser
65 70 75 80
Leu

<210> 25109
<211> 186
<212> PRT
<213> A.fumigatus

<400> 25109
Ile Glu Pro Pro Leu Asp Leu Leu Phe Pro Ala Val Lys Thr Ser Gly
1 5 10 15
Lys Trp Asn Lys Met Pro Ile Leu Thr Gly Phe Asn Thr Asn Glu Gly
20 25 30
Thr Tyr Tyr Val Pro Ser Ala Met Ser His Arg Arg Met Gly Ser Phe
35 40 45
Phe Arg Thr Leu Leu Pro Ala Tyr Ser Asp Lys Asp Ile Arg Thr Ile
50 55 60
Asp Glu Leu Tyr Pro Asp Pro Ala Val Asp Pro Ser Ser Pro Tyr Arg
65 70 75 80
Glu Thr Arg Ser Ile Pro Val Gly Pro Gln Tyr Lys Arg Val Glu Ala
85 90 95

```
Ala Tyr Gly His Tyr Ala Tyr Ala Cys Pro Val Arg Gln Thr Ala Thr
            100                 105                 110
Leu Ala Ser Ala Gly Gln Glu Glu Pro Val Phe Leu Tyr Arg Trp Ala
        115                 120                 125
Leu Asn Lys Thr Val Gln Gly Gly Ala Asn His Gly Asp Gln Met Glu
    130                 135                 140
Tyr Glu Thr Tyr Asn Pro Glu Val Arg Gly Ile Ser Ser Ser Gln Asp
145                 150                 155                 160
Glu Ile Ala Gly Thr Phe His Ala Tyr Ile Thr Ser Phe Ile Val Ala
                165                 170                 175
Gly Asp Pro Asn Ala Val Gly Gly Lys Val
            180                 185
```

<210> 25110
<211> 362
<212> PRT
<213> A.fumigatus

<400> 25110

```
Leu Asp Gly Ala Gly Leu Ile Ala Arg Gln Val Gly Leu Gln His Ser
1               5                   10                  15
His Val Leu Ile His Cys Ser Asp Gly Trp Asp Arg Thr Gly Gln Leu
            20                  25                  30
Ser Ala Leu Ser Gln Ile Cys Leu Asp Pro Tyr Phe Arg Thr Met Glu
        35                  40                  45
Gly Phe Met Val Leu Val Glu Lys Asp Trp Leu Ser Phe Gly His Met
    50                  55                  60
Phe Arg His Arg Thr Gly Pro Leu Ser Ser Glu Lys Trp Phe Gln Ile
65                  70                  75                  80
Glu Asn Glu Arg Ile Gly Gly Asp Ser Gly Arg Pro Phe Gly Glu Gly
                85                  90                  95
Gly Gly Ala Ser Lys Ala Ile Glu Asn Ala Phe Leu Ser Ala Lys Gly
            100                 105                 110
Phe Phe Asn Arg Asp Asn Thr Ser Arg Asp Ser Leu Pro Asp Ser Glu
        115                 120                 125
Gly Glu Met Gln Asn Tyr Asp Ser Asp Ser Pro Arg Lys Pro Gly Ser
    130                 135                 140
Ala Pro Arg Ser Val Val Ser Glu Lys Glu Val Thr Lys Val Lys Glu
145                 150                 155                 160
Thr Ser Pro Val Phe His Gln Phe Leu Asp Ala Thr Tyr Gln Leu Leu
                165                 170                 175
Tyr Gln Tyr Pro Thr Arg Phe Glu Phe Asn Glu Arg Phe Leu Arg Arg
            180                 185                 190
Leu Leu Tyr His Leu Tyr Ser Cys Gln Tyr Gly Thr Phe Leu Phe Asn
        195                 200                 205
Ser Glu Lys Glu Arg Val Glu Met Lys Ala Lys Glu Arg Thr Arg Ser
    210                 215                 220
Val Trp Asp Tyr Phe Leu Ala Arg Arg Glu Gln Phe Leu Asn Pro Lys
225                 230                 235                 240
Tyr Asp Pro Leu Val Asp Asp His Lys Arg Gly Lys Glu Arg Leu Ile
                245                 250                 255
Phe Pro Arg Ile Asn Glu Val Arg Trp Trp Ser Glu Ala Phe Gly Arg
            260                 265                 270
Thr Asp Ala Glu Met Asn Gly Val Arg Ser Ala Ser Val Thr Pro Ser
        275                 280                 285
Val Arg Arg Gly Ser Pro Ala Ser Glu Ser Thr Pro Val Leu Thr Gly
```

```
    290                 295                 300
Ile Glu Thr Ala His His Ala Val Gly Ser Gly Ala Ser Gly Asn Val
305                 310                 315                 320
Thr Asn Asn Ala Thr Ser Thr Gly Met Ala Ala Val Ala Ser Gly Ile
                325                 330                 335
Ser Asn Leu Ser Phe Ser Lys Gly Lys Glu Ser Ser Gln Glu Pro Lys
            340                 345                 350
Asn Leu Ser Gln Met Glu Leu Glu Met Gln
        355                 360
```

<210> 25111
<211> 339
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (337)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25111

```
His Phe Asp Ala Asp Asp Ala Thr Met Ser Ala Phe Asp Pro Ser Asn
1               5                   10                  15
Val Asp Leu Asn Thr Ala Ser Lys Glu Asp Val Ile Cys Phe Leu Ser
            20                  25                  30
Leu Ser Glu Asn Glu Tyr Asn Gly His Leu Gly Ala Arg Ile Ser Ser
        35                  40                  45
Ile Phe Val Ile Phe Ile Thr Ser Thr Val Phe Thr Leu Phe Pro Val
    50                  55                  60
Val Ala Gln Arg Leu Pro Gln Trp Arg Ile Pro His His Val Tyr Leu
65                  70                  75                  80
Phe Gly Arg Tyr Phe Gly Thr Gly Val Ile Val Ala Thr Ala Phe Ile
                85                  90                  95
His Leu Leu Asp Pro Ala Tyr Gln Ser Ile Gly Pro Gly Thr Cys Ile
            100                 105                 110
Gly Met Ser Gly Ala Trp Gly Glu Tyr Ser Trp Cys Ala Ala Ile Val
        115                 120                 125
Leu Ser Ser Val Ile Leu Val Phe Leu Leu Asp Val Gly Ala Glu Val
    130                 135                 140
Tyr Val Glu Trp Lys Tyr Ser Val Pro Arg Glu Ala Asn Ala Thr Ala
145                 150                 155                 160
Thr Phe Ile Thr Gln Pro Ala Cys Ser Ser Pro His Glu Ser Ser Asp
                165                 170                 175
Arg Leu Thr Ala Thr Glu Pro Ser Ser Pro Thr Gly Gly Lys Asp Leu
            180                 185                 190
Tyr Pro His Ala Asp Glu Leu Ser Val Ala Ser Glu Gln Ala Phe Arg
        195                 200                 205
Gln Asp Ile Ala Ala Phe Leu Ile Leu Glu Phe Gly Ile Ile Phe His
    210                 215                 220
Ser Val Ile Ile Gly Leu Asn Leu Gly Val Ala Gly Asp Glu Phe Ala
225                 230                 235                 240
Thr Leu Tyr Pro Val Leu Val Phe His Gln Ser Phe Glu Gly Leu Gly
                245                 250                 255
Ile Gly Ala Arg Met Ser Ala Leu His Phe Gly Arg Arg Arg Trp Leu
            260                 265                 270
Pro Trp Ile Leu Cys Leu Ala Tyr Gly Leu Thr Thr Pro Val Ala Ile
```

```
        275                 280                 285
Ala Ile Gly Leu Gly Val Arg Thr Ser Tyr Ser Pro Gly Ser Arg Thr
    290                 295                 300
Ala Leu Thr Val Gln Gly Val Leu Asp Ala Leu Ser Ala Gly Ile Leu
305                 310                 315                 320
Ile Tyr Ser Gly Leu Gly Leu His His Gly Ala Gly Arg Val His Ala
                325                 330                 335
Xaa Lys Ser
```

<210> 25112
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25112

```
Ile Phe Pro Gln Pro Ala Gly Arg Lys Ala Pro Ser Gly Ala Asn Thr
1               5                   10                  15
Ile Ser Ala Lys Gln Glu Gly Leu Asp Ser Ser Asp Thr Asp Asn Pro
            20                  25                  30
Tyr Val Ala Glu Pro Gly Lys Ser Val Lys Gly Glu Gly Glu Thr Asp
        35                  40                  45
Ser Val Lys Leu Lys Gly Thr Val Asp Pro Ala Arg Pro Gln Arg
    50                  55                  60
```

<210> 25113
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25113

```
Thr Thr Phe Val Lys Arg His Leu Thr Gly Glu Phe Glu Lys Lys Tyr
1               5                   10                  15
Ile Ala Thr Leu Gly Val Glu Val His Pro Leu Thr Phe Thr Thr Val
            20                  25                  30
Cys Pro Ala Asn Asn Pro Ala Leu Ser Phe His Phe Ala Ser Pro Gly
        35                  40                  45
Arg Leu Thr Phe Arg Asp Arg Thr Trp Glu Arg Phe Ser Ser Met Tyr
    50                  55                  60
Gly Thr Gln Leu Val Arg Arg Ser Ser Ala Val
65                  70                  75
```

<210> 25114
<211> 87
<212> PRT
<213> A.fumigatus

<400> 25114

```
Pro Glu Gly Lys Gly Arg His Cys His Ala Leu Glu Ser Tyr Thr Thr
1               5                   10                  15
Ser Ser Leu Asp Ala Tyr His Asn Phe Ser Pro Phe Phe Leu Ser Phe
            20                  25                  30
Leu Ala Asn Asp Asn Ser Ile Tyr Asp Glu Gln Lys Ala Asn Leu Leu
        35                  40                  45
Thr Gly Phe Gly His Leu Arg Met Ala Glu Lys Asn Phe His Thr Val
    50                  55                  60
```

```
Ser Leu Leu Gln Gly Gly Tyr Ser Leu Leu Pro His Thr Ala Leu Gln
65                  70                  75                  80
Arg Lys Pro Leu Tyr Gly Lys
                85
```

<210> 25115
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25115

```
His Leu Val Asp Ser Leu Glu Phe Gln Gly Thr Ala Ser Ser Ile Asn
1               5                  10                  15
Ser Phe Ile Met Gly Asp Val Ile Gly Phe Leu Leu Gly Ile Gly Pro
            20                  25                  30
Met Asn Ser Ile Tyr Val Ser Thr Thr Cys Ile Gln His Leu Gly Thr
        35                  40                  45
Thr Ser Leu Gly Gln Leu Leu Lys Gln Leu Arg Val Phe Ile
    50                  55                  60
```

<210> 25116
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25116

```
Val Ile Val Gly Leu Leu Gly Ser Asp Gly His Thr Glu His His Glu
1               5                  10                  15
Thr Gly Asp Leu Val Arg Val Cys Glu Asn Ile Pro Ile Val Leu Cys
            20                  25                  30
Gly Asn Lys Val Asp Val Lys Glu Arg Lys Val Lys Ala Lys Thr Ile
        35                  40                  45
Thr Phe His Arg Lys Lys Asn Leu Gln Tyr Tyr Asp Ile Ser Ala Lys
    50                  55                  60
Ser Asn Tyr Asn Phe Glu Lys Pro Phe Leu Trp Leu Ala Arg Lys Leu
65                  70                  75                  80
Val Gly Asn Ala Ala Leu Val Ser Phe Arg Ala Tyr Ile Val Leu
                85                  90                  95
```

<210> 25117
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25117

```
Asn Leu Gly Thr Ile Gln Phe Asp Val Trp Asp Thr Ala Gly Gln Glu
1               5                  10                  15
Lys Phe Gly Gly Leu Arg Asp Gly Tyr Tyr Ile Asn Gly Gln Cys Gly
            20                  25                  30
Ile Ile Met Phe Asp Val Thr Ser Arg Ile Thr Tyr Lys Asn Val Pro
        35                  40                  45
Asn Trp His Arg Lys Leu Leu Ser Ala Tyr Trp Gly Val Met Ala Ile
    50                  55                  60
Leu Asn Ile Thr Lys Gln Val Thr Ser Ser Val Ser Ala Arg Thr Ser
65                  70                  75                  80
Pro Ser Phe Ser Ala Ala Thr Lys Ser Met Leu Arg Ser Ala Arg
```

85 90 95

<210> 25118
<211> 68
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (41),(50)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25118
Leu Thr Pro Leu Ser Ser Phe Ser Arg Arg Asn Tyr Leu His Ser Thr
1 5 10 15
Thr Phe Arg Ala Asp Ile Thr Ala Lys Gln Pro Lys Thr Val His Arg
20 25 30
Thr Lys Leu Gly Ile Val His Ile Xaa Pro Val Pro Ile Lys Pro Thr
35 40 45
Thr Xaa Ser Glu Val Ile Lys Asp Asp Cys Pro Glu Pro Phe Pro Ile
50 55 60
Pro Gly Lys Tyr
65

<210> 25119
<211> 219
<212> PRT
<213> A.fumigatus

<400> 25119
Arg Glu Asn Leu Ala Val Pro Pro Gly Asp Pro Gly Ser Tyr Lys Ser
1 5 10 15
Pro Phe Phe Lys Asp Phe Ile His Leu Asn Val Ala Met Met Thr Ser
20 25 30
Asn Asn Ala Leu Val Pro Asp Pro Asp Lys Gln Asp Asp Leu Ala Ser
35 40 45
Lys Phe Trp Gln Trp Pro Ile Leu Asn Val Gly Leu Arg Met Cys Ser
50 55 60
Trp Asp Asp Asn Thr Ile Lys Tyr Tyr Leu Leu Gly Asn Pro Phe Val
65 70 75 80
Tyr Trp Gly Ser Thr Phe Ser Leu Gly Val Phe Gly Leu Leu Ile Phe
85 90 95
Trp Tyr Leu Ala Arg Trp Gln Arg Gly Tyr Lys Asp Leu Asn Gln Ala
100 105 110
Asp Ile Asp His Ile His Tyr Ser Gly Phe Tyr Pro Leu Leu Gly Trp
115 120 125
Ile Leu His Tyr Phe Pro Phe Ile Ile Met Ala Arg Val Thr Tyr Val
130 135 140
His His Tyr Tyr Pro Ala Leu Tyr Tyr Ala Ile Leu Thr Phe Gly Phe
145 150 155 160
Cys Val Asp Trp Leu Thr Gln Lys Met Ser Pro Val Ala Arg Gly Ser
165 170 175
Leu Tyr Ala Phe Leu Tyr Val Ile Ile Ile Gly Met Phe Val His Phe
180 185 190
Arg Val Ile Val Phe Gly Ile Glu Gly Pro Ser Gln Gln Trp Ala Asn
195 200 205

```
Leu Asn Trp Leu Ser Gly Trp Arg Ile Ala Asn
    210                 215

<210> 25120
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25120
Tyr Ser Ile Arg Ser His Leu Val Thr Arg Leu Ser Phe Gln Gln Gly
1               5                   10                  15
Asn Gly Tyr Ala Leu Leu Arg Leu Tyr Gly Asp Val Thr Ile Glu Lys
            20                  25                  30
Asp Ala Gly Val Asp Thr Leu Phe Phe Pro Phe Gly Leu Val Lys Val
        35                  40                  45
Ala Gly Glu Gly Leu Gln Leu Gly Asn Tyr Met Arg Phe Lys Glu Thr
    50                  55                  60
Lys Tyr Phe Asn Ala Ser Val Asp Cys Leu Ile Val Thr Val Pro Gln
65                  70                  75                  80
Thr Thr Ala


<210> 25121
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25121
Cys Ser Pro Thr Thr Lys Gly Asn Leu Tyr Gly Ala Leu Gln Val Asp
1               5                   10                  15
Met Thr Gln Ala Ser Glu Gln Lys Ala Pro Arg His Leu Cys Thr Glu
            20                  25                  30
Leu Pro Cys Ala Lys Leu Ser Asp Arg Lys Lys Gly Ala Tyr Ser Asp
        35                  40                  45
Ala Gly Tyr Met Leu Arg Pro Tyr Arg Val His Tyr
    50                  55                  60

<210> 25122
<211> 93
<212> PRT
<213> A.fumigatus

<400> 25122
Asn Lys Ser Ala Gly Glu Phe Pro Ala Gly Ser Val Gly Gly Ala Leu
1               5                   10                  15
Ala Pro Ala Ala Pro Lys Phe Ser Met Ser Leu Asn Asn Asn Lys Pro
            20                  25                  30
Lys Asn Val Phe Ala Ala Met Ala Lys Lys Asn Pro Leu Ala Gly Lys
        35                  40                  45
Lys Gly Pro Val Leu Glu Gln Pro Lys Lys Met Thr Glu Gln Glu Arg
    50                  55                  60
Ile Met Lys Glu Glu Met Glu Ala Met Glu Arg Lys Arg Met Arg Ala
65                  70                  75                  80
Gly Ser Gly Phe Pro Asn Ala Lys Arg Pro Lys Ile Ser
                85                  90
```

<210> 25123
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25123
Leu Ser Ile Leu Phe Gly Ile Ser Thr Glu Asp Ser Phe Ile Ser Leu
1 5 10 15
Ser Tyr Asn Asn Gln Ser Ser Ile Ala Val Ala Asn Thr Thr Met Ile
20 25 30
Ser Ser Asn Phe Ala His His Gly Tyr Ile Ala Tyr Cys Pro Ser Phe
35 40 45
Ala Val Ile Leu Thr Thr Ser Arg Leu Trp Phe Arg Thr Cys Arg Arg
50 55 60
Pro
65

<210> 25124
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25124
Ala Gly Pro Pro Asp Leu Ile Tyr Phe Tyr Pro His Ala Thr Thr Thr
1 5 10 15
Ser Thr Thr Thr Thr Gly Cys Ala Val Gly Tyr Gly Gln His Arg Pro
20 25 30
Arg Trp Phe Ile Leu Ala Lys Ile Tyr Leu Ser Ser Gln Ser Asn Gln
35 40 45
Gln Phe Asp Asp Glu Val Asn Tyr Leu Ala Tyr Thr Lys Pro Phe
50 55 60

<210> 25125
<211> 124
<212> PRT
<213> A.fumigatus

<400> 25125
Arg Gly Ser Phe Arg Pro Arg Gly Glu Asp Arg Trp His Arg Ala Glu
1 5 10 15
Met Gln Val Thr Lys Gly Glu Asn Leu Ile Lys His Glu Ala Glu Ile
20 25 30
Met Ser Arg Pro Lys Arg Thr Trp Phe Glu Thr Glu Arg Asp Lys Arg
35 40 45
Ala Ala Arg Lys Leu Gly Ala Thr Glu Leu Asn Gly Pro Ser Lys Lys
50 55 60
Asp Lys Val Lys Leu Ser Asn Lys Asp Lys Lys Arg Leu Asp Asp Ala
65 70 75 80
Arg Gln Arg His Glu Gly Asn Ile Gly Trp Lys Lys Gly Lys Ala Asp
85 90 95
Arg Glu Ala Pro Lys Gln Gly Lys Asn Lys Gly Gly Lys Thr Lys Ser
100 105 110
Asp Lys Lys Asn Lys Ile Lys Met Lys Gly Lys Lys
115 120

<210> 25126

<211> 183
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25126
Asp Pro Trp Pro Pro Gly Thr Phe Phe Phe His Leu Phe His Ser Gly
1 5 10 15
Phe Xaa Phe Pro Trp Gln Asp Thr Phe Pro Phe Ser Pro Ala Arg Pro
20 25 30
Ala Ile Gly Ser Leu Ala Asp Thr Arg Ser Gln Glu Met Glu Val Tyr
35 40 45
Thr Gly Val Arg Ala Ala Ser Ser Arg Asn Ala Ala Pro Pro Ala Asp
50 55 60
Val Lys Ile His Thr Ile Phe Pro Met Gly Ile Leu Ser Pro Gly Phe
65 70 75 80
Asp Asn Glu Gln Gly Leu Lys Pro Gln Leu Thr Lys Glu Leu Glu Ala
85 90 95
Ala Asp Lys Pro Gln Arg Pro Ile Glu Val Ala Lys Ala Ser Ile Gln
100 105 110
Gly Leu Glu Lys Gly Asp Tyr Leu Ile Thr Thr Met Phe Val Gly His
115 120 125
Met Met Lys Ala Ser Ala Leu Gly Ala Ser Pro Arg Asn Ser Ile Ile
130 135 140
Thr Asp Thr Leu Thr Ser Trp Leu Ser Ser Leu Val Phe Leu Gln Val
145 150 155 160
Ile Pro Asp Leu Arg Lys Lys Ala Phe Asn Trp Gly Leu Lys Asn Gly
165 170 175
Val Pro Ser Ser Gln Ser Lys
180

<210> 25127
<211> 448
<212> PRT
<213> A.fumigatus

<400> 25127
Ser Thr Arg Ser Cys Gln Pro Val Leu Lys Thr Thr Pro Met Leu Gly
1 5 10 15
Thr Asp Ala Ala Val Gly Asp Ala Glu Arg Arg Gly Arg Pro Arg Pro
20 25 30
Ser Leu Ser Glu Arg Thr Ile Glu Thr Leu Ser Arg Ile Pro Pro Ser
35 40 45
Pro Gly Pro Pro Ser Arg Gln Ser Ser Phe Phe Asn Gly Asn Ser Pro
50 55 60
Val Arg Ser Pro Ser Arg Thr Pro Ser Val Met Thr Ser Arg Ser Pro
65 70 75 80
Ser Arg Ala Ser Thr Thr Arg Gln Pro Ser Glu Asn Asp Phe Leu Ser
85 90 95
Gln Gln Ala Ser Ala Ile Gln Leu Pro Ser Arg Ser Arg Ile Ser Pro
100 105 110
Ala Pro Thr Leu Ser Ser Asn Asp Ala Ser Thr Gly Gln Arg Thr Ser

```
        115                 120                 125
Ser Ala Gly Thr Asp Ile Ser Ser Thr Leu Lys Lys Pro Ser Val Arg
    130                 135                 140
Ala Ser Leu Tyr Asn Gly Val Asn Asp Thr Thr Arg Lys Ser Pro Asp
145                 150                 155                 160
Pro Arg Pro Ala Leu Gly Lys Thr Ser Ala Asn Ala Thr Phe Ser Asp
                165                 170                 175
Met Gly Pro Pro Pro Pro Pro Leu His Val Lys Lys Thr Arg Lys Ser
            180                 185                 190
Leu Ala Asn Asn Ser Ser Pro Ile Asn Asn Ser Arg Lys Pro Ser Thr
        195                 200                 205
Pro Leu Asn Ala Pro Asp Leu Ser Ile Glu Gln Gln Ser Glu Ile Glu
    210                 215                 220
Met Arg Lys Ala Ser Lys Ser Ser Ser Ala Leu Arg Glu Ser Ile Ala
225                 230                 235                 240
Lys Ala Lys Ala Ala Arg Lys Ala Ser Ala Arg Gln Asn Asn Thr Gln
                245                 250                 255
Asn Gly Ser Val Asp Ile Phe Asp Asn Leu Asn Val Glu Asp Pro Phe
            260                 265                 270
Asn Gln Gln Pro Lys Asp Ser Lys Ser Gly Leu Leu Arg Lys Arg Val
        275                 280                 285
Glu Ala Gly Arg Thr Ser Gly His Leu Asn Ile Ala Ala Met Ser Leu
    290                 295                 300
Thr Glu Ile Pro Lys Glu Val Met Ala Met Tyr Asp Phe Asp Pro Asn
305                 310                 315                 320
Ser Thr Thr Asp Trp Tyr Glu Ser Val Asp Leu Val Lys Phe Ile Ala
                325                 330                 335
Ala Asp Asn Glu Phe Val Glu Leu Ser Glu Ala Ala Phe Pro Asp Ile
            340                 345                 350
Asp Pro Phe Asp Ile Asp Ser Asp Lys Asp Glu Arg Gly Asn Gln Phe
        355                 360                 365
Ala Gly Leu Glu Ile Met Asp Leu His Gly Asn Gln Leu Arg Thr Leu
    370                 375                 380
Pro Met Gly Phe Arg Arg Leu Gln Arg Leu His Thr Leu Thr Leu Ser
385                 390                 395                 400
Asn Asn Lys Leu Asp Ala Glu Ser Ile Gln Ile Val Met Gln Met Glu
                405                 410                 415
Ala Leu Lys Asp Leu Lys Leu Ala Asn Asn Leu Leu Glu Gly Ser Phe
            420                 425                 430
Ser Ser Val Phe Thr Thr Gly Leu Glu Gly Ser Gly Gly Cys Tyr Trp
        435                 440                 445
```

<210> 25128
<211> 80
<212> PRT
<213> A.fumigatus

<400> 25128

```
Arg Pro Leu Lys Val Arg Gly Leu Ile Pro Ile Arg Leu Cys Leu Ser
1               5                   10                  15
Cys His Leu His Trp Trp Arg Arg Leu Thr Ser Met Asn Gly Thr Val
            20                  25                  30
Gly Ile Gln Cys Ala Phe Arg Phe Tyr Leu Ser Tyr Thr Asn Thr Ile
        35                  40                  45
Leu Val Gln Ala Trp Val Ser Ile Leu Leu Ala Val His Gly Ala Gly
    50                  55                  60
```

```
Ile Ala Val Gly Ser Arg Glu Ser Leu Trp Lys Tyr Leu Cys Ser Ser
65                  70                  75                  80

<210> 25129
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25129
Val Ser Leu Glu Val Pro Leu Leu Lys Leu Ile Cys Asp Pro Ile Ala
1               5                   10                  15
Ile Cys Ala Cys Trp Ala Asp Arg Ser Ala Thr Arg Arg Trp Pro Tyr
            20                  25                  30
Leu Ala Gly Leu Leu Gly Leu Val Gly Ala Thr Leu Ile Leu Ser Phe
        35                  40                  45
Ser Glu Ser Val Ser Leu Phe Val Val Gly Arg Leu Leu Gln Gly Leu
    50                  55                  60
Ser Gly Ala Val Ala Trp Thr Val Pro Leu Ala Ile Ile Thr Asp Arg
65                  70                  75                  80
Val Gly Val Thr Gln Val Gly Pro Tyr Leu Gly Tyr Met Thr Leu Gly
                85                  90                  95
Arg Ser Ala Gly Met Ser Ala Gly Pro Ile Phe Gly Gly Leu Val Phe
            100                 105                 110
Leu Tyr Trp Gly Tyr Phe Arg Thr Tyr Val Thr Ala Phe Ile Ile Leu
        115                 120                 125
Gly Ile Asp Ile Ala Leu Arg Leu Leu Leu Val Gln Gly Pro Gln
    130                 135                 140

<210> 25130
<211> 129
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25130
Glu Ser Ser His Pro Pro Asn Leu Tyr Thr Pro Leu Asp Ser Pro Ser
1               5                   10                  15
Ser Pro Pro Phe Pro Thr His Ala Arg Xaa Asp Thr Met Lys Thr Ser
            20                  25                  30
Trp Ala Leu Ala Thr Leu Val Ala Leu Ala Ser Ala Lys Gly Ser Lys
        35                  40                  45
Gly Ala Gln Cys Arg Cys Leu Pro Gly Asp Ser Cys Trp Pro Ser Pro
    50                  55                  60
Ala Ser Trp Ala Ala Leu Asn Ser Thr Val Gly Gly Arg Leu Val Ala
65                  70                  75                  80
Thr Val Pro Ile Gly Ser Pro Cys His Asp Pro Thr Tyr Asp Ala Ala
                85                  90                  95
Ala Cys Ala Ala Leu Arg Asp Ala Trp Asn Leu Pro Gln Thr Gln Tyr
            100                 105                 110
Val Glu Leu Arg Tyr Ala Gly Met Leu His Arg Asn Lys Gly Arg Glu
        115                 120                 125
Ser
```

<210> 25131
<211> 252
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (185),(209),(234)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25131
Val Ser Trp Leu Gly Asn Lys Asp Gly Arg Glu Thr Ala Asn Gly Arg
1 5 10 15
Cys Ser Tyr Phe Ala Arg Ser Ser Gly Ala Gly Ala Leu Ser Val Trp
20 25 30
Met His His Phe Asn Asp Ile Gln Tyr Lys Asp Trp Ser Asp Ser His
35 40 45
Tyr Lys Gly Pro Ala Phe Lys Val Gly Ala Gly Val Met Gly Phe Gln
50 55 60
Val Leu Glu Ala Ala His Ala Arg Gly Leu Val Val Val Gly Gly Glu
65 70 75 80
Cys Pro Thr Val Gly Leu Ala Gly Gly Tyr Ile Gln Gly Gly Gly His
85 90 95
Ser Ala Leu Ser Thr Ser Tyr Gly Leu Gly Ala Asp Asn Ala Leu Glu
100 105 110
Phe Gln Val Val Thr Ala Ala Gly Lys Leu Val Thr Ala Asn Arg Ser
115 120 125
Thr Asn Pro Asp Leu Phe Trp Ala Ile Ser Gly Gly Gly Ala Gly Asn
130 135 140
Tyr Gly Val Val Ile Ser Ala Thr Ile Lys Ala His Pro Asp Ala Thr
145 150 155 160
Val Ala Gly Ala Gly Leu Gln Phe Leu Ser Ser Lys Thr Thr Ala Asp
165 170 175
Lys Phe Tyr Glu Ala Ile Leu Glu Xaa His Gly Leu Val Pro Glu Met
180 185 190
Ile Asp Ala Val Pro Pro Ser Ser Thr Arg Ser Leu Ser Ser Ser Leu
195 200 205
Xaa Ser Thr Leu Phe Thr Ala Tyr His Gln Asp Asp Gly Arg Cys Gln
210 215 220
Glu Leu Cys Trp Arg Pro Ser Leu Thr Xaa Trp Ile Ser Leu Asn Phe
225 230 235 240
Pro Phe Thr Val Ser Ile Pro Arg Ser Leu Ile Leu
245 250

<210> 25132
<211> 180
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25132
Tyr Ala Xaa Pro Cys Arg Arg Leu Val Lys Thr Val Pro Ser Ser Ser
1 5 10 15
Phe Asn Gly Asp Ala Pro Leu His Ser Pro Ala Phe Ser His Phe Arg
20 25 30
His Ser Ser Ile Asp Thr Arg Pro Ser Thr Ala Glu Ala Lys Leu His
35 40 45
Glu Asp Asp Glu Ala Asp Leu Ala Ala Ala Ile Gly Leu Cys Asn Phe
50 55 60
Gly Thr Pro Arg Thr Gly Pro Val Pro Met Ser Pro Gly Ile Pro Pro
65 70 75 80
Val Pro Pro Leu Pro Ser Arg Tyr Leu Asp Leu Ser Asn Gly Thr Gly
85 90 95
Ser Ile Ser Gln Ser Leu Asp Pro Ala Ala Thr Val Asn Ala Thr Ser
100 105 110
Ser Leu Thr Glu Ser Thr Pro Asn Ile Phe Leu Ser Val Ser Tyr Asn
115 120 125
Pro Ser Leu Ser Tyr Lys Ile Ser Asp Glu Arg Glu Val Lys Met Gly
130 135 140
Asp Ala Asp Arg Val Gln Arg Gln Asn Arg Asn Ala Asp Val Asp Phe
145 150 155 160
Ser Asn Arg Pro Ala His Ala Asp Asp Asp Asp Asp Gly Val Phe Gly
165 170 175
Arg Met Glu Glu
180

<210> 25133
<211> 80
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (30)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25133
Gly Leu Arg Gly Ser Gln Ser Arg Ala Pro Lys Glu Tyr Leu Leu Ser
1 5 10 15
Asn Phe Phe Ser Ser Ser His Thr Pro Lys Ile Ser Pro Xaa Lys Asn
20 25 30
Ile Ser Phe Phe Leu Ser Pro Phe Pro Leu Asn Lys Ser Pro His Ser
35 40 45
Arg Ser Leu Leu Lys Ile Ser Phe Leu Ser Phe Ser Pro Gln Ile Phe
50 55 60
Thr Ser Tyr Pro Phe Cys Val Pro Phe Tyr Arg Leu Arg Leu Ser Ile
65 70 75 80

<210> 25134
<211> 186
<212> PRT
<213> A.fumigatus

<400> 25134
Leu Ser Pro Ala Ser Leu Met Arg Ala Trp Ile Ser Thr Ser Arg Thr
1 5 10 15

```
Ala Ile Ser Ala Phe Ser Phe Leu Arg Ser Ser Ile Arg Leu Ile Ile
            20                  25                  30
Cys Val Leu Asp Phe Ser Lys Thr Ala Asn Ile Val Arg Asn Arg Ser
        35                  40                  45
Arg Leu Val Glu Arg Arg Gly Ser Glu Val Ile Leu Gly Gly Val Leu
    50                  55                  60
Gly Leu Leu Ile Trp Ser Leu Pro Pro Leu Pro Ile Ala Ala Leu Val
65                  70                  75                  80
Cys Ala Ala Ser Tyr Ala Ala Phe Ser Ser Arg Ser Glu Ser Ser Ser
                85                  90                  95
Ser Glu Met Ala Ser Ala Ser Ser Met Ser Ser Arg Ile Cys Ser Arg
            100                 105                 110
Cys Phe Ile Phe Cys Ser Arg Ser Ala Phe Phe Pro Asn Glu Ile Arg
        115                 120                 125
Pro Ser Ser Thr Tyr Ser Ser Asn Pro Ser Ala Lys Ser Ser Ser Ser
    130                 135                 140
Arg Ile Ser Leu Val Ser Arg Met Ser Ser Phe Ser Val Phe Phe Arg
145                 150                 155                 160
Pro His Ser Ser Ser Leu Met Phe Ser Ser Arg Glu Met Lys Ser Cys
                165                 170                 175
Ser Ser Val Ser Gly Ser His Phe Leu Trp
            180                 185
```

<210> 25135
<211> 333
<212> PRT
<213> A.fumigatus

<400> 25135

```
Gly Val Lys Thr Pro Thr Arg Lys Thr Lys Glu Lys Gly Pro Arg Glu
1               5                   10                  15
Thr Arg Arg Arg Gly Leu Ile Leu Thr Arg Gly Cys Gly Lys Phe Gln
            20                  25                  30
Thr Pro Val Lys Gly Pro Lys Gly Gln Leu Thr Gly Trp Thr Glu Glu
        35                  40                  45
Gly Thr Lys Asp His Leu Glu Ser Ser Met Arg Lys Asn Met Gly Glu
    50                  55                  60
Ser Lys Gly Lys Asp Tyr Gly Ala Phe Arg Pro Ile Pro Glu Gly Lys
65                  70                  75                  80
Ala Glu Ile Arg Gly Lys Arg Lys Glu Gly Arg Ser Pro Val Tyr Gln
                85                  90                  95
Arg Lys Trp Leu Pro Glu Thr Glu Glu Gln Asp Phe Ile Ser Leu Glu
            100                 105                 110
Glu Asn Met Ser Asp Glu Glu Trp Gly Leu Lys Lys Thr Glu Lys Glu
        115                 120                 125
Asp Met Arg Asp Thr Arg Leu Ile Arg Glu Asp Glu Asp Phe Ala Glu
    130                 135                 140
Gly Phe Asp Glu Tyr Val Glu Asp Gly Arg Ile Ser Leu Gly Lys Lys
145                 150                 155                 160
Ala Glu Arg Glu Gln Lys Met Lys Gln Arg Glu Gln Met Arg Glu Leu
                165                 170                 175
Ile Glu Glu Ala Glu Ala Ile Ser Asp Glu Asp Asp Ser Asp Leu Glu
            180                 185                 190
Glu Lys Ala Ala Tyr Glu Ala Ala Gln Thr Arg Ala Ala Ile Gly Ser
        195                 200                 205
Gly Gly Arg Asp His Ile Asn Arg Pro Arg Thr Pro Pro Lys Ile Thr
```

```
    210                 215                 220
Ser Leu Pro Arg Leu Ser Thr Ser Leu Glu Arg Leu Arg Thr Met Leu
225                 230                 235                 240
Ala Val Leu Glu Lys Ser Arg Thr Gln Met Ile Asn Arg Met Glu Asp
                245                 250                 255
Leu Arg Lys Glu Lys Ala Asp Ile Ala Val Arg Glu Val Glu Ile Gln
            260                 265                 270
Ala Leu Ile Lys Glu Ala Gly Asp Asn Tyr Glu Arg Leu Arg Gln Glu
        275                 280                 285
Ala Gly Leu Thr Pro Gly Ser Glu Glu Asp Leu Ser Ile Ala Thr Asp
    290                 295                 300
Ile Lys Asn Ala Arg Gly Leu Glu Ser Phe Gly Ala Ser Ile Ala Gly
305                 310                 315                 320
Ser Ala Gly Asp Ser Gly Ser Gln Ser Pro Ser Ser Thr
                325                 330
```

<210> 25136
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25136

```
Asn Pro Gly Leu Gly Ala Tyr Ile Gly Phe Leu Gly Val Ile Trp Phe
1               5                   10                  15
Thr Trp Leu Gln Ile Thr Leu Phe Asp Ile Arg Phe Ala Arg Asp Ser
            20                  25                  30
Val Phe Glu Arg Ile Cys Lys Ala Ala Gln Leu Ala Ala Met Val Gly
        35                  40                  45
Phe Ala Ser Ala Gly Thr Arg Phe Thr Thr Gln Ile Arg Gly Glu Asn
    50                  55                  60
Val Trp Ala Phe Gln Ser Leu Ser Leu Leu Leu Gly Val Phe Thr Lys
65                  70                  75                  80
Gly
```

<210> 25137
<211> 94
<212> PRT
<213> A.fumigatus

<400> 25137

```
Tyr Leu Thr Ser Leu His Ile Cys Leu Tyr Thr Ile Arg Arg Tyr Ser
1               5                   10                  15
Pro Cys Ile Met Lys His Ser Pro Pro Ala Gln Gln Thr Gln Arg Pro
            20                  25                  30
Pro His Pro Ile Pro Pro Leu Ser Glu Ser Thr Pro Leu Ala Pro Pro
        35                  40                  45
Met His Leu Phe Ser Ile Pro Pro Ser Ile His Leu Pro Ser Leu Asn
    50                  55                  60
Thr Phe Pro Pro Ala Asn Pro Leu Leu Leu Ser Pro His Asn Pro Ser
65                  70                  75                  80
Pro Pro Phe Pro Asn Phe Cys Glu Lys Pro Ser Pro Pro Thr
                85                  90
```

<210> 25138
<211> 188

<212> PRT
<213> A.fumigatus

<400> 25138
Val Arg Thr Gly Val Gln Leu Ala Ile Ile Ala Ala Val Ala Leu Leu
1 5 10 15
Leu Val Val Ile Leu Asp Asn Lys Phe Arg Val Leu Pro Ala Ser Ile
20 25 30
His Gly His Leu Pro Thr His Tyr Ala Gly Tyr Val Val Thr Asp Val
35 40 45
Thr Val Val Thr Cys Ser Ser Ile Ser Ile Phe Ser Ser Cys Lys Val
50 55 60
Asp Pro Lys Ala Trp Ser Arg Ile Glu Lys Asp Leu Tyr Leu Arg Ser
65 70 75 80
Gly Trp Thr Ser Ser Ala Tyr Val Gln Phe Gln Arg Lys Lys Glu Glu
85 90 95
Glu Leu Leu Ala Ser Asp Lys Val Val Ile Asp Leu Lys Ile Ser Arg
100 105 110
Leu Ile Pro Gln Ser Ser Asn Asp Pro His Gly Glu Lys Ile Glu Trp
115 120 125
Glu Gln Arg Pro Gly Gly Ile Trp Leu Lys Arg Thr Ala Lys Arg His
130 135 140
Ala Ser Asp Ser Gln Lys Ala Ile Thr Ser Ile Asp Val Leu Phe Gly
145 150 155 160
Ala Asp Ala Val Asp Pro Arg Val Gly Trp Glu Val Lys Asp Thr Pro
165 170 175
Leu Pro Leu Val Phe Thr Tyr Gly Asn Gly Arg Ile
180 185

<210> 25139
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25139
Ser Asp Ala Glu Arg Glu Leu Ala Ala Ser Ser Arg Leu Trp Leu Leu
1 5 10 15
Ser Leu Val Ser Leu Ser Pro Phe Leu Thr Tyr Ser Cys Tyr Val Ser
20 25 30
Phe Tyr Gln Leu Val Cys Leu Gly Ser Phe Pro Pro Arg Leu Leu Ile
35 40 45
Pro Leu Glu Leu Lys Asp His Leu Phe Ile His Gly Phe Leu Arg Ser
50 55 60
Cys Gln Ser Asn Leu Ser Ser Leu Phe Leu Tyr Ile Phe Ser Val Leu
65 70 75 80
Pro Ile Val Ala

<210> 25140
<211> 107
<212> PRT
<213> A.fumigatus

<400> 25140
Ile Val Glu Ser Thr Arg Ala Trp Arg Asp Ala Trp Ser Ser Ile Leu
1 5 10 15

```
Leu His Gln Glu Arg Met Leu Cys Glu Phe Asp Gly Ile Tyr Ala Pro
            20                  25                  30
Ile Ile Gly Ser Ser Asp Pro Thr Thr Ala Lys Ala Ala Pro Thr Pro
        35                  40                  45
Glu Val Thr Leu Ala Arg Thr Arg Arg Leu Arg Glu Glu Tyr Glu Glu
    50                  55                  60
Leu Arg Lys Glu Leu Ala Glu Glu Leu Asn Ala Val Asp Gln Arg Met
65                  70                  75                  80
Ile Arg Pro Ala Ser Gln Ala Lys Glu Tyr Leu Ala Pro Leu Lys Lys
                85                  90                  95
Thr Ile Lys Lys Arg Glu Asp Arg Lys Val Ala
            100                 105
```

<210> 25141
<211> 107
<212> PRT
<213> A.fumigatus

```
<400> 25141
Gln Val Val Phe Val Pro Arg Gly Arg Gly Lys Gly Val Ala Arg Gly
1               5                   10                  15
Gly Gly Ser Arg Ala Ser Ala Asn Arg Lys Thr Thr Ala Pro Lys Val
            20                  25                  30
Val Ala Ala Pro Val Glu Ser Val Val Glu Ile Pro Thr Gln Pro Ile
        35                  40                  45
Asp Pro Asp Ser Phe Ser Arg Ser Leu Gly Pro Thr Ala Lys Gln Gln
    50                  55                  60
Pro Thr Val Asp Leu Ser Thr Gln Ala Gly Ala Ala Arg Gly Leu Ala
65                  70                  75                  80
Gly Ala Ser Arg Gly Arg Arg Gly Ala Ser Arg Gly Pro Ala Arg Gly
                85                  90                  95
Asn Asn Arg Gly Arg Gly Lys Leu Trp Val Pro
            100                 105
```

<210> 25142
<211> 251
<212> PRT
<213> A.fumigatus

```
<400> 25142
His Ile Leu Cys Gln His Pro Phe Leu Pro Ile Ala Ser Gly Thr Ser
1               5                   10                  15
Thr Ser Pro Leu Phe Arg Ser Arg Ala Lys Thr Leu Ala Ser Leu Thr
            20                  25                  30
Thr Ser Lys Leu Gly Ser Gln Ser Asp Ser Thr Pro Lys Glu Ile His
        35                  40                  45
Leu Pro Glu Asp Pro Phe Val Asn Gly Gln Pro Ile Glu Ala Tyr Leu
    50                  55                  60
Tyr Lys Asp Ala Thr Glu Cys Pro Ile Cys Phe Leu Tyr Tyr Pro Pro
65                  70                  75                  80
Tyr Leu Asn Arg Thr Arg Cys Cys Asp Gln Pro Ile Cys Ser Glu Cys
                85                  90                  95
Phe Val Gln Ile Lys Arg Pro Asp Pro His Pro Pro Glu His Gly Glu
            100                 105                 110
Ala Glu Pro Asn Ala Ala Ala Ala Glu Gly Asp Arg Arg Asp Asn Gln
        115                 120                 125
```

```
Asp Cys Gln Leu Val Ser Glu Pro Ala Ala Cys Pro Phe Cys Val Gln
    130                 135                 140
Pro Glu Phe Gly Val Thr Tyr Thr Pro Pro Pro Phe Arg Arg Gly Leu
145                 150                 155                 160
Val Tyr Ala Thr Asp Pro Thr Leu Arg Pro Asn Phe Thr Ser Pro Met
                165                 170                 175
Ser Ser Thr Ser Ser Leu Ala Ser Ala Asn Ala Ser Pro Gly Thr Gly
            180                 185                 190
Arg Arg Arg Ala Thr Ser Leu Ser Ala Asn Asp Pro Ala Val Ile Thr
        195                 200                 205
Thr Asp Arg Val Arg Pro Asp Trp Ala Gln Lys Leu Ala Asn Ala Arg
    210                 215                 220
Ala His Ala Ala Arg Arg Ser Ala Ala Ala Thr Ala Leu His Thr Ala
225                 230                 235                 240
Ala Tyr Leu Lys Asn Ser Thr Glu Ser Gly Lys
                245                 250
```

<210> 25143
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25143

```
Lys Ser Gln Tyr Phe Phe Gln Leu Ile Gly His Cys Lys Asp Thr Gln
1               5                   10                  15
Gln Met Thr Thr Thr Ala Ser Glu Thr Ala Arg Leu His Ile Thr Pro
            20                  25                  30
Phe Thr Pro Asp Leu Leu Pro Ser Val Leu Pro Ser Ser Ile Arg Ala
        35                  40                  45
Ser Ala Thr Asp Ile Ser Phe His Ser Ile Ala Thr Phe Pro Glu Asn
    50                  55                  60
Asn Tyr Gly Tyr Val Thr Leu Pro Ala Met Glu Ala Asp Lys Ile Lys
65                  70                  75                  80
Lys Lys Leu Asn Gly Ser Ile Leu Lys Gly Arg Lys Phe Lys Val Glu
                85                  90                  95
Thr Ala Arg Pro Pro Lys Arg Gln Glu Val Asp Val Glu Thr Asp Thr
            100                 105                 110
Val Met Ser Ile Arg Lys Thr Thr Ser Asp Lys Val Ser Gln Lys Arg
        115                 120                 125
Lys Ala Asn Asp Asn Val Leu Asp Gly Tyr Glu Leu Pro Ser Gly Arg
    130                 135                 140
Gln Val Lys Arg Gly Trp Thr Glu Ser Ala Asp Ala Lys Lys Gly Glu
145                 150                 155                 160
Thr
```

<210> 25144
<211> 244
<212> PRT
<213> A.fumigatus

<400> 25144

```
Lys Glu Gly Gly Gln Ser Arg Gln Met Pro Arg Lys Gly Arg Arg Lys
1               5                   10                  15
Asp Glu Lys Leu Lys Lys Gly Lys Asp Gly Lys Lys Ala Lys Thr Gln
            20                  25                  30
```

```
Val Lys Ser Lys Tyr Thr Glu Lys Ser Glu Cys Leu Phe Arg Thr Lys
        35                  40                  45
Ile Pro Lys Asn Arg Ser Ala Ser Pro Asp Glu Lys Gln Glu Lys Gln
    50                  55                  60
Ile Lys Lys Lys Lys Lys Ser Pro Gln Glu Ser Val Val His Glu Phe
65                  70                  75                  80
Ala Thr Thr Ile Thr His Pro Ser Phe Leu Arg Ser Glu Val Asp Gly
                85                  90                  95
Ala Ala Pro Thr Ser Ala Phe Glu Glu Gly Lys Gly Trp Ile Asp Ser
            100                 105                 110
Ala Gly Asn Leu Lys Glu Thr Val Ser Asp Arg Leu Arg Lys Asp Gln
        115                 120                 125
Tyr Arg Pro Gly Gln Val Ala Gly Ala Lys Glu Lys Arg Lys Ser Ala
    130                 135                 140
Lys Ala His Pro Thr Ala Gln Glu Thr His Leu Glu Lys Thr Glu Asp
145                 150                 155                 160
Asp Arg Ile Asp Ser Ala Asp Glu Ser Glu Asp Trp Thr Ser Ser Ser
                165                 170                 175
Gly Thr Thr Ser Ser Asp Asp Ser Ser Thr Asp Ser Glu Ile Asp Asp
            180                 185                 190
Gly Met Ser Ser Ala Ser Ser Glu Ser Ser Ala Ser Phe Asn Arg Gly
        195                 200                 205
Glu Gln Gln Gln Ser His Ser Leu Thr Thr Lys Glu Asn Val Ser Ser
    210                 215                 220
Pro Arg Lys Thr Asp Glu Ser Glu Leu Cys Leu Pro His Ala Gly Arg
225                 230                 235                 240
Arg Asn Gln Val
```

<210> 25145
<211> 129
<212> PRT
<213> A.fumigatus

<400> 25145

```
Ser Ile Gln Ser Cys Glu His His Thr Lys Pro Glu Ser His Thr Ser
1               5                   10                  15
Phe Lys Val Ser Glu Gln Gly Thr Ile Lys Pro Pro Ser Thr Leu Gln
            20                  25                  30
Glu Ser Asp Thr Asp Gln Thr Ile Thr Asp Thr Met Asn Lys Thr Ser
        35                  40                  45
Thr Glu Leu Ile Ala Leu Lys Ser Pro Met Ala Lys His Ser Ser Leu
    50                  55                  60
Ile Phe Phe Leu His Thr Ala Ala Lys Ile Ile Ile Leu Leu Ala Ile
65                  70                  75                  80
Val Asp Val Leu Arg Val Leu Ile Arg Gln Val Gln Val Tyr Leu Asp
                85                  90                  95
Gln Gln Ala Arg Glu His Asn Glu Ile His Gly Pro Gln Arg Val Arg
            100                 105                 110
Leu Val Arg Arg Arg Arg Arg Leu Asp Asp Asp Ile Phe Gly Phe Pro
        115                 120                 125
Phe
```

<210> 25146
<211> 72

<212> PRT
<213> A.fumigatus

<400> 25146
His Asp Glu Ile Lys Thr Gln Phe Ser Arg His Tyr Asn His Gln Arg
1 5 10 15
Ala Lys Cys Lys Asp Pro Lys Ile Ile Leu Glu Trp Phe Asn His Val
20 25 30
Gln Ile Ile Ile Met Gln Tyr Gly Ile Ile Pro Lys Asp Ile Tyr Asn
35 40 45
Phe Asn Glu Thr Gly Phe Val Met Gly Leu Val Ala Thr Ala Lys Val
50 55 60
Val Ile Arg Ala Lys Met Leu Ser
65 70

<210> 25147
<211> 227
<212> PRT
<213> A.fumigatus

<400> 25147
Arg Thr Val Ser Ala Arg Gln Ala Tyr Arg Arg Ile Arg Arg Val Leu
1 5 10 15
Gln Leu Gln Trp Arg Gly Val Thr Leu Val Leu Ile Ile Ile Ala Asn
20 25 30
Val Ile Phe Phe Ser Val Thr Phe Ile Glu Leu Asp Ser Ser Leu Lys
35 40 45
Pro Thr Ala Glu Asn Met Glu Lys Ala Leu Pro Trp Val Ala Cys Leu
50 55 60
Ala Ala Thr Asn Gly Asp Arg Glu Lys Cys Asp Pro Glu Ala Ala Lys
65 70 75 80
Phe Arg Pro Ser Glu Gly Leu Leu Leu Ala Val Leu Val Leu Leu Ser
85 90 95
Leu Val Gly Phe Trp Asn Phe Ile Leu Phe Ala Arg Pro Ser Ile Phe
100 105 110
His Gly Trp Val Asp Phe Phe Gln Asn Lys Phe Gly Thr Gly Asp Gly
115 120 125
Arg Leu Glu Phe Val Ser Ala Asp Ala Arg Thr Arg Leu Gly Asp Thr
130 135 140
Arg Ser Tyr Glu Met Leu Asn Ser Thr Gly Leu Pro Ser Tyr Lys Ser
145 150 155 160
Pro Ser Pro Met Val Arg Ser Pro Ser Pro Ala Arg Met Gly Gly Thr
165 170 175
Lys Ser Pro Glu Asn Gly His Phe Gly Arg Asp Ala Arg Tyr Val Arg
180 185 190
Pro Ser Met Ser Phe Ser Ser Pro Arg Pro Pro Ser Ala Ser Gln Gly
195 200 205
Arg Gly Trp Asp Pro Lys Thr Thr Phe Ala Pro Ala Val Tyr Arg Glu
210 215 220
Tyr Asp Asp
225

<210> 25148
<211> 128
<212> PRT
<213> A.fumigatus

<400> 25148
Trp Ser Met Cys Arg Tyr Phe Leu Phe Gln Ala Gly Leu Ile Pro Ile
1 5 10 15
Ile Leu Leu Met Thr Asp Pro Thr Ser Thr Asp Ala Pro Ala Trp Leu
20 25 30
Gln Asp Val Glu Thr Thr Lys Lys Leu Leu Thr His Pro Ser Leu Ser
35 40 45
Asn Asn Arg Leu Ala Thr Arg Cys Leu Glu Val Val Asn Arg Leu Cys
50 55 60
Ser Pro Thr Tyr Thr Ser Ser Val Ser Asp Gly Ser Thr Pro Ile Gln
65 70 75 80
Pro Pro Met Leu Met Gln Phe Ser Asp Gln Leu Leu Asn Asp Pro Met
85 90 95
Phe Gly Ser Met Phe Pro Asp Val Asp Gln Glu Leu Asn Leu Gly Gly
100 105 110
Met Asp Phe Ser Glu Trp Val Asn Tyr Thr Pro Gln Thr Asp Leu His
115 120 125

<210> 25149
<211> 74
<212> PRT
<213> A.fumigatus

<400> 25149
Asp Ala Pro Gly Asn Leu Ala Asp Gly Ala Glu Tyr Val Leu Asp Leu
1 5 10 15
Leu Asn Ile Leu Phe Leu Gln Arg Ile Trp Leu Phe Ile Lys Ile Trp
20 25 30
Ile Ala Ser Leu Ser Phe Ser Glu Leu Arg Leu Asp Leu Asn Asp Ala
35 40 45
Leu Phe Leu Leu Met Arg Arg Cys Val Thr Glu Asp Gln Ile His Ile
50 55 60
Phe Glu Ser Leu Leu Thr Gly Leu Ser Ser
65 70

<210> 25150
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25150
Leu Ile Leu Gly Ile Tyr Leu Asp Ile Thr Cys Thr Ile Ser Lys Leu
1 5 10 15
Thr Tyr Phe Thr Arg Asn Pro Ser Pro Asn Tyr Phe Ile Ile Val Lys
20 25 30
Tyr Ile Phe His Tyr Leu Ala Glu Ile Leu Leu Leu Leu Leu Tyr Tyr
35 40 45
Pro Ser Ile Phe Ser Asn Val Asn Ser Phe Ile Asn Ala Asn
50 55 60

<210> 25151
<211> 239
<212> PRT
<213> A.fumigatus

<400> 25151
Arg Thr Ser Ser Phe Val Ile Leu Ile Ser Asn Ser Tyr Lys Leu Lys
1 5 10 15
Asp Trp His Leu Tyr Ile Tyr Trp Pro Leu Ala Thr Ser Ile Gly Met
20 25 30
Pro Ser Ser Pro Thr Ser Asp Arg Asn Asp Leu Leu Leu Asn Val Thr
35 40 45
Ile Leu Thr Phe Ile Leu Phe Arg Ala Trp Lys Leu Ser Gly Ser Ala
50 55 60
Met Arg Gly Ala Phe Ala Leu Gly Leu His Leu Arg Asn Val Gly Ile
65 70 75 80
Cys Thr Ser Asp Thr Ser Lys Glu Ile Arg Tyr Arg Val Trp Trp Ser
85 90 95
Leu Tyr Thr Leu Asp His Leu Leu Ser Ala Met Thr Gly Arg Pro Ser
100 105 110
Cys Ile Val Asp Asn Ser Cys Thr Thr Pro Leu Pro Val Pro Phe Asp
115 120 125
Glu Pro Asp Phe Gln Lys Glu Glu Val Val Arg Met Ile Gly Asp Ala
130 135 140
Ser Arg Gly Asn Ser Asn Gln Leu Asp Arg Ile Ser Pro Val Cys Pro
145 150 155 160
Ser Ala Ser Asp Leu Ser Thr Thr Leu Asp Ala Lys Thr Ala Asp Gly
165 170 175
Thr Ala Asn Ala Lys Thr Ser Gly Ser Ser Met Val Glu Tyr Leu Lys
180 185 190
Ser Leu Pro Pro Cys Met Ser Leu Tyr Phe Ile Gln Leu Ser Thr Leu
195 200 205
Thr Ser Ile Asn Lys Arg Met Thr Ser Lys Leu Tyr Gly Pro Glu Ala
210 215 220
Met His Ser Pro Trp Pro Ser Lys Glu Phe Thr Ile Gln Ser Leu
225 230 235

<210> 25152
<211> 158
<212> PRT
<213> A.fumigatus

<400> 25152
Arg Arg Leu Gly Trp Ser Ser Pro Arg Ile Val Ser Gly Pro Trp Cys
1 5 10 15
Glu Leu Ala Val Leu Glu Glu Phe Ser Phe Thr Asn Asn Cys Val Phe
20 25 30
Phe Thr Asn Arg Ala Asn Gln Glu Val Leu Asn Trp Leu Thr Lys Met
35 40 45
Lys Lys Ser Ile Gly Asn Asp Leu Ser Asp Gln Ala Ile Lys Asp Tyr
50 55 60
Leu Trp Ser Thr Leu Asn Ala Gly Gln Val Val Pro Gly Tyr Gly His
65 70 75 80
Ala Val Leu Arg Lys Thr Asp Pro Arg Tyr Val Ser Gln Arg Glu Phe
85 90 95
Ala Leu Arg Lys Leu Pro Asp Asp Pro Met Phe Lys Leu Val Ser Gln
100 105 110
Val Tyr Lys Ile Ala Pro Gly Val Leu Thr Glu His Gly Lys Thr Lys
115 120 125
Asn Pro Tyr Pro Asn Val Asp Ala Val Ser Ser Ser Leu Leu Met Ile
130 135 140

```
Asp Ser Gly Met Ala Ser Asp His Gly Arg Leu Thr His Leu
145                 150                 155
```

<210> 25153
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25153

```
His Ser Gly Val Leu Leu Gln Tyr Tyr Gly Leu Thr Glu Ala Asn Tyr
1               5                   10                  15
Tyr Thr Val Leu Phe Gly Val Ser Arg Ala Leu Gly Val Leu Pro Gln
            20                  25                  30
Leu Ile Ile Asp Arg Ala Leu Gly Ala Pro Ile Glu Arg Pro Lys Ser
        35                  40                  45
Phe Ser Thr Glu Ala Tyr Ala Lys Leu Val Gly Ala Lys Leu
    50                  55                  60
```

<210> 25154
<211> 404
<212> PRT
<213> A.fumigatus

<400> 25154

```
Leu Phe Gly Leu Leu Leu Phe Thr Thr Phe Trp Gly Asp Gln Val Arg
1               5                   10                  15
Ser Phe Val Ala Ala Ile Leu Arg Ser Trp Ile Ala Arg Glu Gly Lys
            20                  25                  30
Met Ala Arg Leu Gly Arg Phe Gly Phe Leu Ala Leu Ala Val Val Phe
        35                  40                  45
His Leu Ile Tyr Ala Tyr Ser Ile Phe Asp Ile Tyr Phe Val Ser Pro
    50                  55                  60
Ile Val Ser Gly Met Arg Ser Tyr Gly Val Glu Arg Glu Pro Gly Ala
65                  70                  75                  80
Lys Ala Pro Ala Ser Arg Leu Val Leu Phe Val Ala Asp Gly Leu Arg
                85                  90                  95
Ala Asp Lys Ala Phe Gln Pro Ala Pro Asp Pro Ser Pro Glu Asp Gly
            100                 105                 110
Glu Asp Ala Glu Asn Asn Asp Pro Ile Tyr Leu Ala Pro Phe Ile Arg
        115                 120                 125
Ser Arg Val Leu Ser His Gly Thr Phe Gly Val Ser His Thr Arg Val
    130                 135                 140
Pro Thr Glu Ser Arg Pro Gly His Val Ala Leu Ile Ala Gly Leu Tyr
145                 150                 155                 160
Glu Asp Val Ser Ala Val Thr Thr Gly Trp Thr Leu Asn Pro Val Asn
                165                 170                 175
Phe Asp Ser Val Phe Asn Gln Ser Leu His Thr Trp Ser Trp Gly Ser
            180                 185                 190
Pro Asp Ile Leu Ala Met Phe Lys Glu Gly Ala Val Pro Gly Arg Val
        195                 200                 205
Asp Ala Asp Met Tyr Gly Glu Glu Ile Glu Asp Phe Thr Met Asp Ala
    210                 215                 220
Thr Gln Leu Asp Thr Trp Val Phe Asn Lys Val Lys Glu Leu Phe Ala
225                 230                 235                 240
Ser Ala Lys Ser Asp Pro Glu Leu Asp Ala Lys Leu Arg Gln Asp Lys
                245                 250                 255
```

```
Val Val Phe Phe Leu His Leu Leu Gly Leu Asp Thr Thr Gly His Gly
            260                 265                 270
Tyr Arg Pro Tyr Ser Arg Glu Tyr Leu His Asn Ile Lys Ile Val Asp
        275                 280                 285
Lys Gly Val Gln Glu Ile Ala Thr Leu Ile Glu Glu Phe Tyr Gly Asp
    290                 295                 300
Asp Arg Thr Ala Phe Val Phe Thr Ala Asp His Gly Met Ser Asp Trp
305                 310                 315                 320
Gly Ser His Gly Asp Gly His Pro Asp Asn Thr Arg Thr Pro Leu Val
                325                 330                 335
Val Trp Gly Ser Gly Val Ala Gly Pro Lys Tyr Thr Asp Gly Lys Ala
            340                 345                 350
Val Thr Gly His Glu Asp Gly Phe Ser Ala Asp Trp Gly Leu Asp Gly
        355                 360                 365
Ile Gln Arg His Asp Val Ala Gln Ala Asp Val Ala Ala Leu Met Ala
    370                 375                 380
Tyr Leu Ala Gly Leu Asp Phe Pro Val Asn Ser Val Gly Gln Leu Pro
385                 390                 395                 400
Leu Pro Ile Tyr
```

<210> 25155
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25155

```
Val Arg Cys Trp Ala Ser Pro Cys Asp Lys Tyr Glu Leu Phe Ser Pro
1               5                   10                  15
Ala Gly His Cys Ser Ser Ser Ser Ser Tyr Ser Ser Leu Val Asp Ser
            20                  25                  30
Asp Leu Thr Met Ala Ser Leu Ala Arg Ser Thr Leu Arg Leu Arg Ala
        35                  40                  45
Thr Ser Arg Phe Pro Val Ala Ala Arg Thr Leu Thr Thr Ser Pro His
    50                  55                  60
Leu Arg Ala Ala Ala Lys Pro Tyr Phe Pro Asp Glu Pro Ser Ala Pro
65                  70                  75                  80
Lys Val Val Thr Ala
                85
```

<210> 25156
<211> 104
<212> PRT
<213> A.fumigatus

<400> 25156

```
His Phe Ala Gly Gln Gln Asn Leu Arg Ser Ala Glu Glu Met Glu Glu
1               5                   10                  15
Glu Glu Arg Glu Ala Gln Ser Ala Lys Leu Gln Glu Leu Ile Arg Arg
            20                  25                  30
Gly Thr Pro Ala Asp Leu Gln Glu Ala Asn Arg Leu Met Lys Val Met
        35                  40                  45
Ala Gly Phe Asp Thr Arg His Lys Thr Asp Tyr Arg Ala Lys Ala Ala
    50                  55                  60
Glu Glu Val Ala Lys Val Gln Gln Lys Ala Lys Ile Leu Glu Glu Met
65                  70                  75                  80
```

```
Leu Gln Ser His Lys Pro Gly Asp Arg Ile Ala Glu Gly Asp Val Phe
                85                  90                  95
Glu Val Lys Ile Ala Pro Gly Asp
            100
```

<210> 25157
<211> 73
<212> PRT
<213> A.fumigatus

<400> 25157

```
Ser Ser Ala Asp Pro Ser Ser Pro Val Val Lys Thr Glu Glu Trp Arg
1               5                   10                  15
Gln Thr Ile Cys Gln Thr Ser Arg Tyr Lys Glu Asp Leu Gly His Ile
            20                  25                  30
Arg Asp Met His Arg Leu Leu Leu Tyr Lys Gly Tyr Met Phe Pro Glu
        35                  40                  45
Ile Arg His Glu Asp Ala Ala Val Leu Asn Pro Ser Asp Val Arg Pro
    50                  55                  60
Cys Leu Arg Gly Ser Arg Pro Met Ala
65                  70
```

<210> 25158
<211> 129
<212> PRT
<213> A.fumigatus

<400> 25158

```
Pro Ile Arg Ile Gly Asn Leu Arg Val His Phe Lys Val Leu Ile Arg
1               5                   10                  15
Arg Phe Arg Arg Cys Ala Lys Lys Glu Ser Asp Asp Pro Glu Ala Val
            20                  25                  30
His Lys Leu Leu Glu Ile Asn Asp Ser Ile His Arg Thr Ile Glu Arg
        35                  40                  45
Tyr Lys Leu Val Lys Lys Gly Asp Tyr Asp Thr Ala Ser Lys Ile Pro
    50                  55                  60
Lys Gly Thr Leu Gly Thr Thr Thr Gly Val Ser Lys Asn Ala Asn Asn
65                  70                  75                  80
Glu Leu Ser Leu Ile Asp Phe Asp Pro Glu Pro Ser Ser Asn Gly Asn
                85                  90                  95
Ala Pro Pro Pro Ala Gly Gly Ser Ser Leu Glu Asn Asp Leu Leu Gly
            100                 105                 110
Leu Ser Ile Glu Glu Pro Val Pro Ala Gly Ser Ile Ser Leu Gly Pro
        115                 120                 125
Gly
```

<210> 25159
<211> 156
<212> PRT
<213> A.fumigatus

<400> 25159

```
Arg Leu Thr Met Asp Ile Gly Asn Leu Thr Thr Ser Ala Asn Ala Pro
1               5                   10                  15
Leu Gln Gln Ala Pro Ala Gly Phe Lys Pro Thr Tyr Asp Ile Met Ala
```

```
            20                  25                  30
Ser Phe Asn Ser Ser Arg Pro Val Ser Gln Ser Ser Thr Pro Ala Pro
        35                  40                  45
Arg Pro Pro Gln Gln Pro Thr Ala Thr Pro Thr Pro Pro Pro Pro Pro
    50                  55                  60
Ala Ser Asp Pro Phe Ala Ala Leu Val Ser Ala Ser Pro Arg Thr Ser
65                  70                  75                  80
Ser Pro Phe Pro Pro Gly Ala Ser Ser Thr Gln Ser Pro Ala Ala Ala
                85                  90                  95
Ser Ser Ala Leu Leu Asp Leu Val Gly Ala Gly Pro Pro Thr Thr Ala
            100                 105                 110
Ala Ala Ser Gly Ser Ser Ala Gln Thr Gln Asp Asp Asp Glu Trp Asn
        115                 120                 125
Phe Ala Ser Ser Leu Pro Glu Ser Asn Ala Leu Pro Thr Thr Asn Lys
    130                 135                 140
Val Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg His
145                 150                 155

<210> 25160
<211> 319
<212> PRT
<213> A.fumigatus

<400> 25160
Tyr Leu Ser Ala Asp Pro Ser Ser Leu Val Val Lys Thr Gln Leu Asp
1               5                   10                  15
Asp Asp Gln Asp Ala Phe Asn Glu Asp Thr Phe Gly Asp Val Gly Thr
            20                  25                  30
Gly Ser Val Gly Lys Asp Phe Asp Phe Phe Gly Gln Thr Ala Lys Val
        35                  40                  45
Ala Asp Ala Ile Gly Glu Glu Gln Val Arg Phe Asn Leu Gln His Ser
    50                  55                  60
Gly Ala Pro Ser Gly Ser Ser Ala Lys Glu Ile Ala Ala Gln Pro Pro
65                  70                  75                  80
Ala Thr Ser Val Ser Ser Asp Lys Pro Lys Arg Thr Gly Tyr Glu Lys
                85                  90                  95
Tyr Gln Asp Pro Gly Tyr Ile Pro Asp Leu Gln Ala Lys Ser Ser Val
            100                 105                 110
Trp Gly Leu Gln Lys Lys Pro Glu Pro Ala His Glu Pro Val His Glu
        115                 120                 125
Pro Ala Ser Gln Thr Lys Lys Met Leu Ser Leu Glu Glu Val Glu Ala
    130                 135                 140
Gln Leu Arg Ser Arg Gly Ile Ala Ser Val Gln Pro Pro Val Ser Met
145                 150                 155                 160
Pro Met Pro Met Pro Asp Leu Ser His Leu Gln Arg Thr Gln Gln Leu
                165                 170                 175
Pro Asn Gly Pro Glu Ala Phe Ser Gln Leu Pro Pro Glu Phe Leu Gln
            180                 185                 190
Ala Gln Phe Pro Lys Asp Val Pro Pro Ala His Leu Leu His His Pro
        195                 200                 205
Ser Met Val Pro Glu Pro Tyr Ser Leu Pro Pro Ser Ala Pro Asn Val
    210                 215                 220
Pro Leu His Leu Leu His Asn Ala Asn Val Leu Pro Gln His Met Ala
225                 230                 235                 240
Pro Pro Gln Arg Gln Ala Ile Pro Pro Arg Val Gln Gln Pro Pro Pro
                245                 250                 255
```

```
Gln His Pro Pro Pro Gln Ala Ile Lys Gly Ala Asn Thr Gly Leu Pro
            260                 265                 270
Leu Ile Thr Asn Pro Gln Gln Leu Met Gln Leu Thr Glu Glu Gln Arg
        275                 280                 285
Met Ala Tyr Leu Met Glu Asp Ala Lys Arg Ala Lys Arg Asn His Lys
    290                 295                 300
Ile Phe Leu Leu Ser Ser Pro Arg Gly Trp Lys Glu Pro Cys His
305                 310                 315
```

<210> 25161
<211> 100
<212> PRT
<213> A.fumigatus

<400> 25161

```
Thr Thr Ala Asp Pro Ser Ser Pro Val Val Lys Thr Tyr Gly His Ala
1               5                   10                  15
Ser Pro Val Ile Ile Ala Gly Gly Tyr Lys Ala Asp Ser Ala Leu Glu
            20                  25                  30
Ala Val Asp Ser Arg Tyr Lys Gly Tyr Asp Val Val Ile Gly Ile Gly
        35                  40                  45
Arg Pro Trp Thr Ser Asn Pro Asp Leu Pro Phe Lys Ile Lys Ala Gly
    50                  55                  60
Ile Pro Leu Arg Pro Tyr Glu Arg Glu Phe Phe Tyr Leu Pro Lys Asp
65                  70                  75                  80
Pro Lys Gly Tyr Ile Asp Tyr Glu Pro Ser Glu Glu Phe Lys Ala Thr
                85                  90                  95
Gln Val Ala Ala
            100
```

<210> 25162
<211> 230
<212> PRT
<213> A.fumigatus

<400> 25162

```
Lys Met Tyr Gln Phe Val Glu Val Phe Lys Asp Pro Arg Thr Tyr Phe
1               5                   10                  15
Ile Ala Val Ile Val Ala Ala Met Asn Ile Ser Asn Ala Ala Ile Ser
            20                  25                  30
Ser Phe Ser Val Leu Ile Ile Arg Ser Phe Gly Tyr Thr Thr Lys Glu
        35                  40                  45
Thr Glu Leu Leu Thr Ile Pro Gly Gly Val Val Ser Val Ile Ser Ile
    50                  55                  60
Val Thr Gly Thr Tyr Leu Ala Gly Arg Phe Asp Gln Arg Cys Leu Ser
65                  70                  75                  80
Leu Ile Gly Ile Leu Ala Cys Gly Leu Leu Gly Gly Cys Leu Met Ala
                85                  90                  95
Phe Ser His Glu Gly Met Lys Ala Ala Glu Leu Ala Gly Asn Tyr Leu
            100                 105                 110
Thr Thr Cys Val Gly Ala Ala Leu Pro Leu Met Tyr Ser Ile Ser Gly
        115                 120                 125
Ala Asn Val Val Gly His Thr Lys Lys Val Thr Leu Asn Thr Ile Val
    130                 135                 140
Leu Met Ser Phe Cys Leu Gly Asn Ile Leu Gly Pro Leu Thr Phe Arg
145                 150                 155                 160
```

```
Thr Glu Asp Glu Pro Asp Tyr Met Pro Ala Lys Ile Ala Ile Val Ala
                165                 170                 175
Thr Val Ser Val Ala Val Val Phe Ser Val Leu Leu Lys Arg Tyr Tyr
            180                 185                 190
Met Tyr Glu Asn Arg Arg Arg Asp Ile Gln Ala Glu Gly His Gly Pro
        195                 200                 205
Glu Asn Ser Asp Phe Phe Gly Ser Asp Gly Gln Gly Glu Ser Gly Arg
    210                 215                 220
Leu Arg Tyr Ser Met Phe
225                 230
```

<210> 25163
<211> 369
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (342),(355),(358),(363),(364),(365),(366)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25163

```
Asp Leu Thr Asp His Asn Arg Ser His Gln Glu Ala Ser Met Arg His
1               5                   10                  15
Trp Asp Pro Gln Tyr Val Ala Asp Phe Asp Arg His Asn Tyr Ser His
            20                  25                  30
Ile Arg Thr Ala Arg Val Gln Pro Pro Gly Ser Leu Phe Gln Asn Ser
        35                  40                  45
His Gln Val Ala Val His Gln Arg Ser Asn Val Gln Pro Arg Gly Pro
    50                  55                  60
His Asp Val Thr Ala Ser Ala Tyr Gln Met Ile Pro Pro Asp Thr Ala
65                  70                  75                  80
Asn Thr Pro Ala Pro Leu Glu Asn Gln His Tyr Gly Gly Val Arg Tyr
                85                  90                  95
Arg Pro Ala Tyr Ser Pro Pro Ser Tyr Ala Arg Pro Asn Pro Tyr Met
            100                 105                 110
Pro Phe Pro Gln Trp Thr Ile Ser Pro Val Thr Asn Gln Pro Arg Arg
        115                 120                 125
His His Arg Thr Gln Asn Ser Ser Ser Thr Ala Ser Ala Val Gln Gly
    130                 135                 140
Gln Gln Gln Ala Thr Ser Val Gly His Thr Ala Arg Arg Arg Thr Arg
145                 150                 155                 160
Pro Ala Gly Glu Thr Asn Pro Gln Leu Pro Arg Arg Leu Ser Thr Ser
                165                 170                 175
Gln Val Pro Arg Val Pro Ala Val Ala Thr Ala Thr Ser Ser Ser Pro
            180                 185                 190
Gly Met Ala Ile Gly Ala Pro His Tyr Leu Thr Tyr Leu Thr Pro Glu
        195                 200                 205
Asp His Val Arg Ile Gln Arg Leu Ala Glu Leu Gln Ala Tyr Thr Ser
    210                 215                 220
Ser Met Arg Thr Gly Ser Val Val His Gly Ser His Arg Gln His Ser
225                 230                 235                 240
Leu Asp Asp Asp Gly Ile Gly Asp Arg Gly Ser Ser Thr Pro Lys Gly
                245                 250                 255
Leu Asp Asp Thr Thr Asp Gly Arg Pro Glu Pro Lys Glu Asp Lys Asp
            260                 265                 270
```

```
Leu Thr Val Asn Leu Glu Cys Lys Ile Cys Met Ser Gln Leu Val Asp
        275                 280                 285
Thr Val Thr Ile Pro Cys Gly His Ala Ile Leu Cys Arg Trp Cys Ala
    290                 295                 300
Glu Gln His Ile Pro Ser Ser Gln Leu Asp Gln Ala Arg Val Lys Gly
305                 310                 315                 320
Arg Pro Leu Cys Pro Met Cys Arg Gly Val Val Lys Ser Lys Val Arg
                325                 330                 335
Pro Arg Ile Arg Arg Xaa Asp Ser Ala Asn Val Ile Val Val Arg Leu
            340                 345                 350
His His Xaa Ala Glu Xaa Gly Ala Phe Asn Xaa Xaa Xaa Xaa Pro Ser
        355                 360                 365
Pro
```

<210> 25164
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25164

```
Gly Ser Val Thr Lys Phe Val Pro Tyr Leu Val Ala Gly Val Gln His
1               5                   10                  15
Ser Leu Gln Asp Ile Gly Val Lys Ser Leu Asp Glu Leu His Asp Gly
            20                  25                  30
Val Asn Lys Gly Ile Val Arg Phe Glu Met Arg Ser Ala Ser Ala Met
        35                  40                  45
Ala Glu Gly Asn Val His Gly Leu His Ser Tyr Asp Lys Lys Leu Tyr
    50                  55                  60
Ser
65
```

<210> 25165
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25165

```
Ser Ser Gly Ser Val Gln Ile Gln Ser Glu Trp Phe Leu Leu Glu Pro
1               5                   10                  15
Ser Phe Glu Ala Gln Leu Phe Val Tyr Val Phe Ser Ala Ile Ser Gly
            20                  25                  30
Leu His Ser Lys Phe Met Glu Arg Asp Ile Ser Ala Pro Phe Thr Cys
        35                  40                  45
Ala Ile Val Ile Pro His Met Ser Val Phe Ala Val Leu Phe Tyr Lys
    50                  55                  60
Asn Thr Tyr Leu Ala Gly Gly Tyr Gln Val Ser Gly Gln
65                  70                  75
```

<210> 25166
<211> 292
<212> PRT
<213> A.fumigatus

<400> 25166

```
Pro Gln Val Arg Phe Asn Phe Thr Thr Val Gly Asp Leu Gln Ser Val
```

```
1               5                   10                  15
Glu Lys Asp Thr Thr Ile Asp Ile Ile Gly Val Leu Lys Asp Val Gly
            20                  25                  30
Glu Thr Thr Gln Ile Val Ser Lys Thr Thr Ser Lys Pro Tyr Asp Lys
        35                  40                  45
Arg Glu Leu Thr Leu Val Asp Ser Ser Gly Phe Ser Val Arg Leu Thr
    50                  55                  60
Ile Trp Gly Ser Thr Ala Leu Asn Phe Asn Ala Thr Pro Glu Ser Val
65                  70                  75                  80
Ile Ala Phe Lys Gly Val Lys Val Ser Asp Phe Gly Gly Arg Ser Leu
                85                  90                  95
Ser Leu Leu Ser Ser Gly Ser Met Thr Val Asp Pro Asp Ile Glu Glu
            100                 105                 110
Ala His Arg Leu Lys Gly Trp Tyr Asp Ala Gln Gly Arg His Glu Thr
        115                 120                 125
Phe Ala Ser His Ala Thr Met Ser Asn Ala Ser Ser Ser Ala Lys Arg
    130                 135                 140
Leu Asp His Leu Lys Thr Ile Ala Gln Val Arg Glu Glu Gln Leu Gly
145                 150                 155                 160
Met Ser Glu Asp Ala Val Tyr Phe Ser Leu Lys Gly Thr Val Ile Tyr
                165                 170                 175
Ile Lys Gln Asp Asn Met Cys Tyr Pro Ala Cys Leu Ser Glu Gly Cys
            180                 185                 190
Asn Lys Lys Val Thr Glu Leu Asp Pro Gly Gln Trp Arg Cys Glu Ser
        195                 200                 205
Cys Asp Lys Thr His Pro Arg Pro Glu Tyr Arg Tyr Ile Met Leu Ile
    210                 215                 220
Asn Val Ser Asp His Thr Gly Gln Leu Trp Leu Ser Cys Phe Asp Glu
225                 230                 235                 240
Val Gly Lys Gln Val Met Gly Thr Ser Ala Asp Gln Leu Met Asp Leu
                245                 250                 255
Arg Gln Asn Gly Glu Lys Ala Ala Gly Asp Ile Phe Gln Glu Ala Asn
            260                 265                 270
Cys Arg Thr Trp Asn Phe Arg Cys Arg Ala Lys Leu Asp His Phe Gly
        275                 280                 285
Asp Gln Gln Arg
    290
```

<210> 25167
<211> 241
<212> PRT
<213> A.fumigatus

```
<400> 25167
Lys Ile Val Tyr Lys Val Val Gln Asp Lys Glu Gly Arg Pro Arg Val
1               5                   10                  15
Val Glu Val Glu Leu Asp Glu Asn Gly Asn Val Ile Lys Lys Glu Lys
            20                  25                  30
Met Asp Asp Val Gln Asp Pro Ser Gly Arg Glu Phe Thr Glu Glu Glu
        35                  40                  45
Leu Leu Ile Ala Ser Pro Val Val Leu Gly Phe Ala Phe Ser Glu Lys
    50                  55                  60
Leu Trp Leu Glu Phe Ser Val Ser Gly Ile Ser Asp Ile Asp Trp Asn
65                  70                  75                  80
Glu Asp Ala Phe Asp Ser Leu Val Leu Pro Asp Asn Gln Lys Ser Ile
                85                  90                  95
```

```
Val Lys Ala Leu Val Glu Ser His Thr Phe Arg Ala Ala Gln Asn Ile
            100                 105                 110
Asp Asp Val Ile Gln Gly Lys Gly Lys Gly Leu Val Ala Val Leu His
        115                 120                 125
Gly Pro Pro Gly Thr Gly Lys Thr Leu Thr Ala Glu Gly Ile Ala Glu
    130                 135                 140
Leu Leu Lys Arg Pro Leu Tyr Met Val Ser Ala Gly Glu Leu Gly Thr
145                 150                 155                 160
Asp Ser Arg Thr Leu Glu Ala Glu Leu Asn Lys Ile Leu Asp Ile Ala
                165                 170                 175
His Ser Trp Gly Ala Val Leu Leu Leu Asp Glu Ala Asp Ile Phe Leu
            180                 185                 190
Glu Lys Arg Thr Ile Gln Asp Ile His Arg Asn Ala Leu Val Ser Ile
        195                 200                 205
Phe Leu Arg Leu Leu Glu Tyr Phe Gln Gly Ile Leu Phe Leu Thr Thr
    210                 215                 220
Asn Arg Val Glu Thr Ser Ser His Thr Ala Pro Gly Arg Ile Arg Asp
225                 230                 235                 240
Cys
```

<210> 25168
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25168

```
Lys Gln Leu Leu Thr Cys Phe Leu Ser Ser Gln Ala Met Asp Val Gly
1               5                   10                  15
Thr Leu Lys Ser Leu Pro Ala Asp Thr Ile Arg Ile Leu Val Trp Ile
            20                  25                  30
Leu Ser Phe Leu Ser Phe Gly Tyr Ala Thr Ala Glu Phe Glu Val Thr
        35                  40                  45
Ser Glu Arg Leu Gly Val Tyr Arg Pro Glu Glu His Ile Glu Tyr Val
    50                  55                  60
Asn Pro Leu Phe Cys Ser Ala Arg Leu Arg Phe Gly Thr Asp Ala Ser
65                  70                  75                  80
Val Arg Leu Leu
```

<210> 25169
<211> 421
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (419),(420)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25169

```
Ala Ser Val Met Arg Arg Leu Ser Leu Arg Ser Pro Pro Arg Asp Ser
1               5                   10                  15
Glu Tyr Thr Ala Arg Arg Ser Ile Ser Ser Met Ser Ile Pro Tyr Ser
            20                  25                  30
Val Arg Arg Val Tyr Val Leu Val Leu Met Leu Leu Ser Asp Phe Cys
```

```
        35                  40                  45
Ser Asn Pro Lys Asp Tyr Ala Asp Asn Gln Asp Ala Arg Gln Tyr Asp
    50                  55                  60
Ser Arg Leu Arg Gly Pro Ile Arg Gln Val Glu Leu Glu Ile Asp Pro
65                  70                  75                  80
Gln Thr Gly Met Lys Asn Tyr Ile Ala Asn Glu Arg Gly Asp Trp Ala
                85                  90                  95
Thr Ser Thr Ala Tyr Ile Lys Tyr Ser Leu Ala Arg Ser Ile His Tyr
            100                 105                 110
Gly Arg Leu Tyr Thr Ser Gly Gly His His Lys Gly Lys Glu Glu Asp
        115                 120                 125
Leu Cys Glu Ala Leu Arg Cys Leu Gly Gln Gly Leu His Thr Leu Glu
    130                 135                 140
Asp Phe Ala Ala His Thr Asn Tyr Cys Glu Leu Ala Leu Arg Glu Met
145                 150                 155                 160
Gly Phe Arg Asn Val Phe Pro His Thr Gly Ala Ala Thr Glu Met Asn
                165                 170                 175
Ile Arg Gly His Arg Val Phe Pro Leu Val Thr Gly Thr Phe Gly Met
            180                 185                 190
Val Asp Phe Phe His Ser Val Leu Gly Glu Ala Thr Asp His Phe Thr
        195                 200                 205
Gln Ser Glu Val Asn Glu Met Asp Ile Ala Leu Gly Asp Ala Gln Ala
    210                 215                 220
Asn Ser Ser Gly Gly Ser Leu Ser Ala Phe Thr Gly Leu Leu Gly Lys
225                 230                 235                 240
Ile Pro Gly Thr Lys Asp Leu Ile Ala Glu Ala Glu Glu Leu Lys Arg
                245                 250                 255
Arg Ser Asp Ala Gln Gln Tyr Ala Asn Gln His Gly Gly Gln Arg Thr
            260                 265                 270
Gly Tyr Ala His Glu Thr Ser Arg Gly Leu Asp Ser Tyr Gly Ser Ala
        275                 280                 285
Val Gly Arg Asp Leu Gly Glu Ser Leu Ser Arg Ala Ser Gly Pro Ser
    290                 295                 300
Gln Pro Ser Thr Ser Gly Gly Pro Ala Gly Pro Gly Leu Pro Gly Met
305                 310                 315                 320
Pro Asp Phe Asp Pro Lys Lys Thr Val Ala Gln Ile Tyr Pro Ile Leu
                325                 330                 335
Gln Phe Arg Asp Asn Val Val Arg Lys Leu Ser Ser Ile Ile Glu Lys
            340                 345                 350
Ile Pro Gly Leu Glu Ala Leu Val Glu Lys Val Thr Glu Thr Leu Thr
        355                 360                 365
Ile Phe Val Met Ser Leu Leu Ala Pro Phe Ile Arg Pro Ile Ile Asn
    370                 375                 380
Ala Ala Ser Asn Ser Leu Gln Ala Gly Ser Ser Ser Val Ile Asp Ala
385                 390                 395                 400
Ser Gly Lys His Gln Phe Glu Pro Cys Leu His His Gly Ala Gly Arg
                405                 410                 415
Ile Asp Xaa Xaa Val
            420
```

<210> 25170
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25170

```
Arg Tyr Thr Leu Leu Pro Val Arg Gln Lys Pro Gln Ser Thr Glu Tyr
1               5                  10                  15
Gly Val Arg Glu Asn Val Leu Ser Gly Lys His Gly Leu Val Gln Pro
            20                  25                  30
Cys Asn Pro Lys Ser Gln Tyr Leu Asp Glu Leu Ser Lys Val Ser Ala
        35                  40                  45
Arg Ser Glu Asp Val Lys Gln Pro Asn Gln Ile Met Lys
    50                  55                  60
```

<210> 25171
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25171

```
Ile Pro Pro Thr Leu Ala Ser Leu Leu Pro Gln Ala Ala Thr Asn Thr
1               5                  10                  15
Ile Arg Ser Thr Thr Glu Phe Tyr Gln Arg Trp Ser Met Pro Val Glu
            20                  25                  30
Glu Phe Arg Asp Thr Ile Asn Asn Cys Tyr Gln Lys Tyr Asp Thr Met
        35                  40                  45
Ser Tyr Ser Ile Gln Arg Ile Ile Leu Pro Gln Glu Ala Lys Met Glu
    50                  55                  60
Val His Pro Lys Ala Tyr
65                  70
```

<210> 25172
<211> 338
<212> PRT
<213> A.fumigatus

<400> 25172

```
Leu Thr Leu Pro Leu Gln Leu Ala Arg Ser Thr Met Leu Ala Thr Arg
1               5                  10                  15
Arg Gly Val Arg Ser Ile Ser Thr Asp Asp Leu Ile Phe Leu Ile Arg
            20                  25                  30
His Asp Lys Ala Lys Val Ser Arg Leu Lys Thr Phe Leu Ser Trp Lys
        35                  40                  45
Asp Val Arg Lys Asn Val Lys Asp Ser Asp Asp Lys Gly Gly Ala Asp
    50                  55                  60
Ala Ala Asp Phe Ala Gly Ala Asp Asp Pro Ile Ala Gly Gly Val Val
65                  70                  75                  80
Ala Gly Pro Gln Asp Val Ala Ser Lys Pro Lys Asn Lys Arg Ala Arg
                85                  90                  95
Val Gly Leu Val Trp Asp Val Asn Ser Phe Tyr Ser Val Gln Val Pro
            100                 105                 110
Glu Arg Glu Asp Glu Glu Asp Glu Glu Glu Glu Glu Gln Asn Tyr Ala
        115                 120                 125
Thr Leu Gln Arg Leu Ala Ala Ala Asp Glu Arg Thr Lys Asn Met Thr
    130                 135                 140
Arg Glu Glu Tyr Val Phe Trp Ser Glu Cys Arg Gln Ala Ser Phe Thr
145                 150                 155                 160
Tyr Arg Lys Ser Lys Arg Phe Arg Glu Trp Ala Gly Phe Gly Ile Val
                165                 170                 175
Thr Glu Ser Lys Pro Asn Asp Asp Ile Val Asp Ile Leu Gly Phe Leu
            180                 185                 190
```

```
Thr Phe Glu Ile Val Gln Thr Leu Thr Glu Glu Ala Leu Lys Val Lys
        195                 200                 205
Glu Arg Glu Asp Arg Glu Lys Ile Arg Arg Gly Gly Ala Glu Ser Gly
    210                 215                 220
Ala Gly Glu Asn Thr Lys Lys Arg Lys Arg Glu Thr Gly Leu Phe Asp
225                 230                 235                 240
Pro Pro Glu Glu Gly Arg Thr Pro Val Glu Pro Arg His Ile Arg Glu
                245                 250                 255
Ala Tyr Arg Lys Leu Gln Ala Thr Pro Asn Lys Asn Ile Ala Met Leu
            260                 265                 270
Leu His Asn Gly Arg Ile Pro Ala Arg Met Pro Leu Arg Leu Val Gly
        275                 280                 285
Ser Ile Leu Ser Cys Ile Ser Asp Leu His Ala Asp Leu Leu Pro Asp
    290                 295                 300
Leu Thr Glu Phe His Ile Leu Ser Pro Ser Tyr Thr Arg Thr Phe Pro
305                 310                 315                 320
Phe Pro Ala Phe Thr Phe Phe Pro Ser Ala Glu Leu Tyr Tyr Asp Arg
                325                 330                 335
Tyr Pro
```

<210> 25173
<211> 186
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (92),(148),(168)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25173

```
Pro Thr Thr Met Lys Gln Thr Gly Thr Leu Val Ala Leu Ala Gly Leu
1               5                   10                  15
Val Ser Met Val His Gly His Gly Phe Val Thr Ser Pro Lys Pro Arg
            20                  25                  30
Met Pro Gly Pro Ala Met Lys Ala Ala Cys Gly Asn Gln Val Glu Ile
        35                  40                  45
Asn Gln Gln Ser Asp Asn Tyr Gly Asn Ile Gln Gly Glu Leu Gln Val
    50                  55                  60
Ser Lys Gly Gln Ser Asp Tyr Asn Ala Asp Glu Cys Asn Ile Trp Leu
65                  70                  75                  80
Cys Lys Gly Tyr Lys Phe Asp Asp Asn Lys Asp Xaa Val Tyr Ser Tyr
                85                  90                  95
Thr Ala Gly Gln Thr Val Asp Phe Val Val Asp Ile Arg Ala Pro His
            100                 105                 110
Thr Gly Val Ala Asn Val Ser Val Val Asp Thr Ala Thr Asn Thr Val
        115                 120                 125
Ile Gly Asn Thr Leu Lys Ser Trp Asn Asp Tyr Ala Ser Asn Ala Thr
    130                 135                 140
Gly Val Ser Xaa Asp Glu Asn Asn Phe Ser Ile Thr Ile Pro Asp Asn
145                 150                 155                 160
Leu Gly Asn Lys Cys Ser Glu Xaa Pro Cys Leu Cys Ser Pro Met Gly
                165                 170                 175
Met Val Pro Pro Asn Leu Phe Asn Arg Thr
            180                 185
```

<210> 25174
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25174
Ala Ser Arg Arg Val Gly Ala Gln Cys Ser Asp Val Ser Leu Ala Gly
1 5 10 15
Ile Ile Asp Arg Glu Arg Ile Leu Thr Gly Asp Arg Asp Ile His Asn
20 25 30
Arg Ile Asp Gln Phe Asp Leu Arg Asp Gln Leu His Gly Leu Asp Cys
35 40 45
Ala Val Gln Asp Gly Pro Arg Asp Pro Ala Met Asp Asp Leu Arg Cys
50 55 60
Val Pro Gly Phe Gln His Phe Asp Arg Gly Asn Ser His Val Arg Glu
65 70 75 80
Ser Phe Tyr Ser Thr Tyr Gln Gln Val Phe Leu Trp Ala Glu Ile Phe
85 90 95
Thr Phe Ile Cys Asn Pro Gly Ile Leu Thr Val Ala Gln Val Cys Tyr
100 105 110
Leu Gln Leu Ala Trp Phe Val Ile Met Val Thr Val Ala Ala Ala Ala
115 120 125
Pro Lys His Asn Asp Ser Glu Phe Val Phe Arg Thr Trp Met Asn Asn
130 135 140
Thr Gly Trp Glu Asn Asn Val Ile Cys Phe Ile Thr Gly Leu Val Asn
145 150 155 160
Pro Leu Tyr Ser Leu Gly Gly Leu Asp Gly Ile Thr Val Cys Pro Phe
165 170 175
Pro Glu Asp Val
180

<210> 25175
<211> 80
<212> PRT
<213> A.fumigatus

<400> 25175
Arg Gly Thr Gly Ile Phe Thr Thr Ala Ser Thr Asn Leu Ile Tyr Ala
1 5 10 15
Thr Asn Phe Met Ala Leu Ile Ala Leu Tyr Lys Thr Asp Leu Val Ile
20 25 30
Gln Pro Trp Met Thr Phe Val Ala Tyr Gln Gly Phe Asn Ile Leu Thr
35 40 45
Gly Gly Thr Val Met Phe Gly Asn Arg Phe Ile Pro Leu Ile Asn Lys
50 55 60
Phe Ser Cys Gly Leu Arg Phe Ser Leu Ser Tyr Val Thr Leu Ala Tyr
65 70 75 80

<210> 25176
<211> 93
<212> PRT
<213> A.fumigatus

<400> 25176
Ser Pro Arg Ser Thr Pro Val Asp Leu Ala Leu Val Gly Arg Ser Leu

```
1               5                   10                  15
Val Ile Met Arg Asn Phe Met Val Asp Gly Phe Ser Ile Tyr Gly Phe
            20                  25                  30
Ile Phe Val Phe Ile Met Gln Cys Phe Leu Gly Thr Ser Leu Ala Glu
        35                  40                  45
Phe Val Ser Ala Tyr Pro Val Glu Gly Gly Met Tyr His Trp Ile Ala
    50                  55                  60
Ala Ile Ala Pro Lys Arg Tyr Asn Ser Ile Leu Ser Phe Ala Thr Gly
65                  70                  75                  80
Trp Ser Thr Val Phe Gly Cys Glu Leu Gly Trp Asp His
                85                  90
```

<210> 25177
<211> 274
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23),(27)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25177

```
Tyr Glu Thr Pro Asp Glu Asp Glu Ser Lys Leu Glu Trp Val Val Ile
1               5                   10                  15
Thr Asn Gly Thr Pro Ala Xaa Cys Thr Gln Xaa Gly Leu Phe Asn Val
            20                  25                  30
Phe Ala Asp Arg Gly Pro Ile Asp Leu Val Ile Ser Gly Pro Asn His
        35                  40                  45
Gly Arg Asn Ala Ser Thr Met Tyr Asn Leu Ser Ser Gly Thr Val Gly
    50                  55                  60
Gly Ala Leu Glu Ala Ala Ile Cys Gly Lys Arg Gly Ile Ala Ile Ser
65                  70                  75                  80
Phe Gly Ser Lys Asp Glu Gln Pro Ile Glu Val Ile Arg Ala Ala Ala
                85                  90                  95
Arg Leu Ala Val Arg Val Val Asn His Leu Tyr Gln Asn Trp Asp Glu
            100                 105                 110
Arg Val Glu Leu Tyr Asn Leu Asn Val Pro Met Arg Ala Asp Val Glu
        115                 120                 125
Thr Arg Pro Val Leu Tyr Thr Arg Thr Leu Pro Tyr Tyr Trp Pro Lys
    130                 135                 140
Gly Cys Leu Tyr Ala Glu Val Thr Gln Ala Asn Gly His Ser Ala Pro
145                 150                 155                 160
Gly Leu Thr Asn Gly Asn Ser Asn His Ser Asp Glu Thr Asp Ala Lys
                165                 170                 175
Leu Cys Asn Gly Thr Thr Thr Lys Ala Val Asn Gly Phe Gly Gly Ser
            180                 185                 190
His Leu Lys Lys Arg Asn Phe Ala Trp Ser Ala Glu Leu Ser Glu Met
        195                 200                 205
Lys Lys Ala Leu Gln Ala Ser Glu Lys Gly Thr Asp Ala His Thr Val
    210                 215                 220
Leu Asn Gly Ser Thr Arg Leu Ala Ser Ser Ile Ile Phe Arg Pro Arg
225                 230                 235                 240
Asp Gly Thr Ser Arg Leu Gln Glu Ala Asp Cys Pro Ile Gln Arg Tyr
                245                 250                 255
Ser Pro Tyr Arg Lys Leu Leu Ala Cys Phe Trp Ser Gly Trp Thr Leu
```

260 265 270

Gly Ala

<210> 25178
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25178

```
Ala Leu Thr Gln Ile Lys Ala Gln Asp Ile Arg Ser Asp Ala Asn Pro
1               5                  10                  15
Asp Asn Val Gly Leu Thr Glu Thr Ser Thr Val Val Cys Ser Thr His
            20                  25                  30
Pro Thr Asp Val Phe Leu Gly Ser Ser Gly Thr Leu Leu Pro Gly Val
        35                  40                  45
Glu Val Arg Ile Met Thr Pro Glu Gly Lys Glu Val Thr Ser Tyr Asp
    50                  55                  60
Thr Pro Gly Glu Leu Val Val Arg Ser Pro Ser Val Val Leu Gly Tyr
65                  70                  75                  80
Leu Asn Asn Glu Lys Ala Thr Lys Glu Thr Phe Glu Asp Gly Trp Met
                85                  90                  95
Arg Thr Gly Asp Glu Ala Val Val Arg Val Ser Pro Lys Gly Thr Glu
            100                 105                 110
His Ile Phe Ile Val Asp Arg Ile Lys Glu Leu Ile Lys Val Lys Val
        115                 120                 125
Arg Tyr Pro Arg Ser Cys Ile Ser Ser Leu Ala Leu Ser Phe Asn
    130                 135                 140
```

<210> 25179
<211> 97
<212> PRT
<213> A.fumigatus

<400> 25179

```
Lys Gly Val Met Ile Ser His Arg Asn Val Ile Ala Asn Thr Leu Gln
1               5                  10                  15
Ile Thr Ala Cys Glu Lys Thr Trp Arg Asp Ser Leu Thr Pro Thr Gly
            20                  25                  30
Gly Pro Arg Tyr Thr Asp Ile Ala Leu Gly Leu Leu Pro Tyr Ser His
        35                  40                  45
Ile Tyr Ala Leu Val Val Ile Cys His Ser Gly Pro Phe Arg Gly Asp
    50                  55                  60
Gln Val Ile Val Leu Pro Lys Phe Glu Leu Lys Ser Tyr Leu Ser Ala
65                  70                  75                  80
Ile Gln Gln Phe Lys Ile Thr Ser Leu Phe Leu Val Ser Gly Val Asn
                85                  90                  95
Ser
```

<210> 25180
<211> 74
<212> PRT
<213> A.fumigatus

<400> 25180

```
Ser Glu Asp Thr Ile Glu Gln Met Leu Thr Glu Asp Pro Ser Phe Ser
1               5                   10                  15
Lys Val Pro Pro Ile Ile Ile Thr Met Leu Arg Ser Gln Glu Ile Cys
            20                  25                  30
Ser Lys Phe Asp Leu Ser Ser Val Thr Ser Leu Phe Thr Gly Ala Ala
        35                  40                  45
Pro Leu Gly Met Glu Thr Ala Ala Asp Phe Asn Lys Ile Tyr Pro Lys
    50                  55                  60
Val Ile Ile Arg Gln Gly Tyr Gly Lys His
65                  70
```

<210> 25181
<211> 109
<212> PRT
<213> A.fumigatus

<400> 25181

```
Gly Leu Gln Val Ala Pro Ala Glu Leu Glu Ala His Leu Leu Thr His
1               5                   10                  15
Pro Ala Val Ala Asp Cys Ala Val Ile Ala Ile Pro Asp Glu Ala Ala
            20                  25                  30
Gly Glu Val Pro Lys Ala Ile Val Val Lys Ser Ala Ser Ala Gly Asn
        35                  40                  45
Asp Asp Glu Ala Ile Ile Gln Ser Ile Lys Lys His Val Glu Asp His
    50                  55                  60
Lys Ala Arg His Lys Trp Leu Lys Gly Gly Val Arg Phe Ile Asp Val
65                  70                  75                  80
Ile Pro Lys Ser Pro Ser Gly Lys Ile Leu Arg Arg Leu Leu Arg Asp
                85                  90                  95
Gln Glu Lys Glu Leu Arg Arg Gln Ala Gly Ala Lys Leu
            100                 105
```

<210> 25182
<211> 82
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (48),(53),(61),(74)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25182

```
Trp Tyr Thr Asn Pro Ser Leu Val Lys His Gly Asp Thr Pro Ala Pro
1               5                   10                  15
Ser Ala Ala Ser Thr Ala Leu Ser Val Ser Ser Pro Ala Ser Val Leu
            20                  25                  30
Pro Ala Ser Pro Ser Pro Val Thr Ala Tyr Thr Ser Thr Ser Ser Xaa
        35                  40                  45
Arg Met Ser Thr Xaa Thr Val Lys Gly Tyr Thr Glu Xaa Phe Phe Pro
    50                  55                  60
Gly Asn Asn Trp Glu Cys Met Gly Ser Xaa Gly Lys Asn Pro Asp Thr
65                  70                  75                  80
Pro Gly
```

<210> 25183
<211> 190
<212> PRT
<213> A.fumigatus

<400> 25183
Leu Gln Pro Arg Ala Ala His Asp Asn Met Pro Pro Pro Val Gly Arg
1 5 10 15
Tyr Gly Pro Ser Gly Leu Ser Gly Pro Tyr Ser His Leu Gln Gln Ala
20 25 30
His Leu Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Gln
35 40 45
His His Pro Ala His Ala Gln Ser Ala Asn Thr Ala Leu Pro Pro Pro
50 55 60
Ser Leu Gly Gly His Pro Gly Phe Ala Ala Gly Asn Pro Asn Thr Asn
65 70 75 80
Ile Asn Pro Phe Thr Leu Ser Gly Thr Gly Ile Ala Asn Gly Met Ser
85 90 95
Val Ala Gly Phe Thr Gly Ala Gly Asp Gly Gly Gly Ser Gly Leu Ala
100 105 110
Ser His Ala Ala Gln Ile Gly Phe Ala Arg Gly Ala Gln Met Gln Gln
115 120 125
Gln Gln Leu Leu Gln Thr His Asp Gly Arg Leu Ala Leu Glu Thr Lys
130 135 140
Ala Gly Gly Val Lys Thr Arg Ile Arg Asp Val Trp Lys His Asn Leu
145 150 155 160
Ala Gln Glu Met Ala Val Leu Arg Gln Leu Val Glu Lys Tyr Pro Tyr
165 170 175
Ile Ser Met Val Cys Pro Tyr Trp Asp Asp Asp Pro Gly Gly
180 185 190

<210> 25184
<211> 227
<212> PRT
<213> A.fumigatus

<400> 25184
Gln His Arg Thr Met Leu Tyr Gln Arg Leu Thr Ala Leu Gly Val Ala
1 5 10 15
Ala Leu Val Ala Ala Ser Ser Val Ser Ala Ser Pro Met Ala Arg Gly
20 25 30
Val Lys Gly Arg Cys Arg Ala Lys Tyr Asn Lys Ala Val Ser His Val
35 40 45
Pro Thr Thr His Glu Ala Thr Pro Thr Ile Asn Leu Pro Val Glu Leu
50 55 60
Pro Glu Thr Arg Ser Gln Ser Pro Trp Pro Thr Val Asp Glu Ile Val
65 70 75 80
Pro Val Lys Lys Pro Gln Ala Asp Glu Asp Pro Asn Ala Ser Ser Ser
85 90 95
Ser Ser Ser Ser Ser Ser Ser Leu Ser Thr Thr Ser Ala Leu Pro Ser
100 105 110
Ser Pro Ala Thr Gln Glu Gln Asp Thr Val Ser Ala Ala Pro Ala Glu
115 120 125
Pro Thr Thr Ala Ala Pro Glu Thr Val Asn Lys Ala Ala Thr Thr Ala
130 135 140
Ser Ser Ser Ser Ser Thr Thr His Ser Gly Lys Ala Thr Phe Tyr Gly

```
145                 150                 155                 160
Gly Asn Val Ser Gly Gly Thr Cys Ser Phe Thr Gly Tyr Thr Leu Pro
                165                 170                 175
Ser Gly Leu Phe Gly Thr Ala Tyr Ser Gly Ala Ala Trp Asn Asn Ala
            180                 185                 190
Ala Glu Cys Gly Ala Cys Val Ser Val Thr Gly Pro Asn Gly Lys Thr
        195                 200                 205
Ile Lys Ala Met Val Arg Leu Leu Phe Ser Cys Gly Ser Tyr His Ile
    210                 215                 220
Tyr Pro Ser
225
```

<210> 25185
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25185

```
Asn His Gln Ser Asn Gly Thr Ser Pro Leu Phe Val Arg Ile Ile Ser
1               5                   10                  15
Tyr Ile Pro Gln Leu Thr Pro Pro Ile Gln Ile Val Asp Gln Cys Pro
            20                  25                  30
Glu Cys Glu Gln Asp His Leu Asp Leu Phe Gln Asn Ala Phe Thr Gln
        35                  40                  45
Leu Ala Asp Val Ser Lys Gly Ile Ile Pro Ile Thr Trp Ser Phe Val
    50                  55                  60
Pro Cys Gly Ile Thr Thr Pro Leu Val Leu Lys Asn Lys Gly Gly Thr
65                  70                  75                  80
Ser Pro Tyr Trp Phe Ser Met Gln Val Met Asn Ala Ser Glu Pro Val
                85                  90                  95
Ala Lys Leu Glu Val Ser Thr Asp Gly Gly Lys Thr Trp Gln Gly Thr
            100                 105                 110
Thr Arg Thr Ser His Asn Phe Phe Glu Lys Ser Asn Gly Phe Gly Lys
        115                 120                 125
Asp Thr Val Gly Leu Glu Gly Tyr Arg Ala Ile Arg Gln Leu Pro
    130                 135                 140
```

<210> 25186
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25186

```
Ile Gly Val Val Leu Leu Leu Ile Gln Ser Ile Pro Gln Glu Met Cys
1               5                   10                  15
Leu Lys Ile Arg Cys Ile Leu Glu Ser Ser Pro Met Leu Arg Asp Glu
            20                  25                  30
Lys Val Asn Asp Pro Leu Ser Ser Leu Gln Ser Val Leu Ile Ile Leu
        35                  40                  45
Lys Gln Leu Thr Phe Val Leu Asn Tyr Ser Gly Ala Asp Val Val Val
    50                  55                  60
Ser Ser Glu Arg Arg Arg Arg Ser Arg Glu Ile
65                  70                  75
```

<210> 25187
<211> 82

<212> PRT
<213> A.fumigatus

<400> 25187
Arg Arg Ile Thr Arg Tyr Ser Ile Ala Cys Leu Phe Arg Asn Asn Val
1 5 10 15
His Val Pro Leu Gly Ile Ala Val Leu Gly Leu Tyr Ser Phe Gln Leu
20 25 30
Ser Leu Leu Thr Leu Gly Tyr Phe Pro Thr Ile Ser Phe Cys Phe Phe
35 40 45
Arg Phe Trp Phe Cys Leu Asp Gln Ser Ser Arg Val Leu His Phe Ala
50 55 60
Thr Pro Leu Ile Leu Ser Gly Asn Val Ile Leu Gly Asp Trp Ile Cys
65 70 75 80
Gly Ser

<210> 25188
<211> 390
<212> PRT
<213> A.fumigatus

<400> 25188
Ala Gln Phe Ala Val Pro Ser Arg Pro Val Val Lys Thr Phe Leu Met
1 5 10 15
Lys Thr Val Asn Ser Val Asn Lys Asp Gly Ser Arg Lys Tyr His Leu
20 25 30
Asp Ile Gln Leu Asn Thr Leu Val Thr Asn Val Arg Phe Asp Thr Thr
35 40 45
Gly Glu Arg Pro Arg Ala Ile Gly Val Asp Tyr Leu Arg Gly Gln Ser
50 55 60
Leu Tyr Arg Ala Asp Pro Arg Ala Ser Lys Ala Ser Ala Gly Thr Pro
65 70 75 80
Gly Ser Val Asn Ala Ala Lys Glu Val Ile Leu Ser Ala Gly Thr Phe
85 90 95
Asn Thr Pro Gln Leu Leu Lys Leu Ser Gly Ile Gly Pro Lys Glu Glu
100 105 110
Leu Ser Lys Trp Asn Ile Arg Thr Leu Val Asn Leu Pro Gly Val Gly
115 120 125
Lys Asn Leu Gln Asp Arg Tyr Glu Thr Gly Leu Val Gly Lys Ala Pro
130 135 140
Thr Asp Phe Val Leu Thr Ser Lys Cys Thr Phe Met Tyr Ser Met Pro
145 150 155 160
Asp Pro Cys Leu Asp Gln Trp Lys Asn Asn Ala Ile Asn Lys Gly Thr
165 170 175
Tyr Thr Thr Asn Gly Ile Ala Ile Ala Ile Val Arg Lys Thr Ser Thr
180 185 190
Ala Glu Gly Lys Pro Asp Val Leu Ile Ser Gly Ala Pro Val Asn Phe
195 200 205
Pro Gly Tyr Tyr Pro Asn Tyr Ser Tyr Glu Gly Leu Lys Asp Ala Gln
210 215 220
Tyr Trp Thr Trp Ile Thr Leu Lys Ala Gln Ser Arg Asn Asn Ala Gly
225 230 235 240
Thr Val Glu Leu Arg Ser Ala Asp Pro Arg Asp Thr Pro Ile Ile Asn
245 250 255
Phe His Ser Phe Asp Ser Gly Val Thr Asp Asn Gly Ala Asp Glu Lys

```
            260                 265                 270
Asp Leu Gln Ala Val Tyr Glu Ser Met Leu Phe Ser Arg Lys Ile Phe
        275                 280                 285
Asn Asp Leu Val Pro Leu Asp Gly Lys Phe Glu Glu Val Trp Pro Gly
    290                 295                 300
Pro Asn Val Thr Ser Glu Ala Asp Leu Lys Asp Phe Ile Lys Arg Glu
305                 310                 315                 320
Ala Trp Gly His His Ala Cys Cys Thr Ala Ala Ile Gly Ala Asp Glu
                325                 330                 335
Asp Pro Asn Ala Val Leu Asp Ser Asp Phe Arg Val Arg Gly Val Asp
            340                 345                 350
Gly Leu Arg Val Val Asp Ala Ser Val Phe Pro Lys Ile Pro Gly Trp
        355                 360                 365
Tyr Ile Ala Leu Pro Ile Tyr Met Ile Ser Glu Lys Ala Ala Asp Val
    370                 375                 380
Ile Ile Ala Asp Ala Ala
385                 390
```

<210> 25189
<211> 113
<212> PRT
<213> A.fumigatus

<400> 25189

```
Asn Leu Asp Asp Thr Ser Lys Val Gln Asn Tyr Thr Phe Thr Asp Phe
1               5                   10                  15
Ser Pro Gly Phe Leu Ala Lys Ala Ala Glu Arg Phe Ser Lys Asp Ala
            20                  25                  30
Val Ile Leu Glu Phe Leu Thr Leu Asn Ile Glu Glu Asp Pro Leu Ala
        35                  40                  45
Gln Gly Phe Gln Ala Glu Ser Phe Asp Leu Ile Val Cys Ala Asn Val
    50                  55                  60
Leu His Ala Thr Arg Ser Met Gln Glu Thr Val Ala His Cys Arg Cys
65                  70                  75                  80
Phe Leu Lys Leu Gly Gly Lys Leu Val Leu Ser Glu Val Thr Ile Gly
                85                  90                  95
Gly Leu Gly Gly Ile Cys Arg Glu Ile Ser Arg Trp Leu Arg Arg Arg
            100                 105                 110
Ala
```

<210> 25190
<211> 383
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (249)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25190

```
Pro Pro Cys Leu Leu Val Ser Leu Gln Arg Ser Pro Cys Leu Leu Leu
1               5                   10                  15
Phe Met Val His Gly Arg Ile Leu Glu Val Met His Ser Asn Gln Pro
            20                  25                  30
```

```
Arg Leu Cys Ser Ser His Asn Asp Glu Pro Ala Phe Tyr Ser Ile Val
        35                  40                  45
Asp Ser Asp Asp Pro Tyr Val Gln Ser Leu Met Glu Gln Ala Leu Gln
    50                  55                  60
Arg Arg Leu Arg Lys Gly Gln Tyr Gln Met Val Ser Lys Leu Ser Asp
65                  70                  75                  80
Leu Pro Ser Pro Ser Ala Pro Leu Phe Gln Tyr Arg Glu Tyr Glu Arg
                85                  90                  95
Leu Asp Phe Glu His Ala Met Met Tyr Ser Asn Thr Ser Leu Ile Asn
            100                 105                 110
Ala Tyr Ile Ile Arg Lys Ala Leu Ile Arg Lys His Tyr Leu Ser Asn
        115                 120                 125
Thr Val Ala Asn Trp Val Thr Lys His Pro Asn Ser Val Leu Arg Asn
    130                 135                 140
His Phe Lys Phe Ala Cys Asp Phe Glu Leu Asp Tyr Ala Glu Phe Leu
145                 150                 155                 160
Asp Glu Ala Leu Leu Glu Ala Tyr Glu Leu Arg Glu Ser Leu Asp Arg
                165                 170                 175
Asn Glu Gly Lys Pro Asp Ser Glu Lys Glu Trp Trp Ile Leu Lys Ala
            180                 185                 190
Gly Met Ser Asp Arg Gly Gln Gly Ile Arg Leu Phe Asn Ser Glu Asp
        195                 200                 205
Gln Leu Arg Glu Ile Phe Glu Glu Trp Glu Glu Asp Asn Ser Asp Asp
    210                 215                 220
Gly Ser Glu Pro Glu Asn Pro Asp Thr Glu Asp Gln Asn Gly Asp Arg
225                 230                 235                 240
Asp Gly Gln Gly Val Val Thr Ser Xaa Leu Arg His Phe Ile Ala Gln
                245                 250                 255
Pro Tyr Ile Asp Pro Pro Leu Ile Leu Pro Ser Ser Ser Asn Arg Lys
            260                 265                 270
Phe His Ile Arg Thr Tyr Val Leu Ala Val Gly Ser Leu Lys Val Tyr
        275                 280                 285
Val Tyr Lys Glu Met Leu Ala Leu Phe Ala Ala Lys Pro Tyr Cys Pro
    290                 295                 300
Pro Trp Glu Asp Glu Asp Glu Val Ile Asp Leu Ala Arg His Leu Thr
305                 310                 315                 320
Asn Thr Cys Phe Gln Glu Gly Gly Ser Thr Asn Glu Gly Ser Val Arg
                325                 330                 335
Arg Phe Trp Asp Leu Asp His His Val Pro Gly Leu Ser His Gly Trp
            340                 345                 350
Lys Glu Lys Ile Phe Asp Gln Ile Cys Ala Val Thr Gly Glu Val Phe
        355                 360                 365
Glu Ala Ala Val Phe Thr Thr Gly Leu Glu Gly Ser Ala Gln Gln
    370                 375                 380

<210> 25191
<211> 338
<212> PRT
<213> A.fumigatus

<400> 25191
Gly Arg Gly Ser Ser Ile Pro Val Val Glu Asp Thr Leu Pro Arg Thr
1               5                   10                  15
His Arg Arg Arg Arg Glu Lys Lys Leu Met Thr Met Asp Glu Val Asn
            20                  25                  30
Ser Arg Phe Pro Leu Thr Lys Tyr Lys Ala Trp Arg Ser Thr Arg Ala
```

```
        35                  40                  45
Asn Ala Ser Ile Pro Thr Ala Glu Val Ile Ser Thr Ala Asp Ser Ser
    50                  55                  60
Leu His Ser Pro Asn Ile Lys Asn Gly Thr Leu Val Val Asp Thr Ser
65                  70                  75                  80
Val Ser Pro Ser Leu Val Lys Ser Ala Ser Thr Asp Ser Gln Arg Gln
                85                  90                  95
Met Gly Pro Thr Ile Ala Gln Thr Ser Thr Val Ala Pro Asp Ala Gly
            100                 105                 110
Ala Gln Phe Ala Gln Leu Asp Glu Lys Ser Asn Gly Arg Pro Ile Phe
        115                 120                 125
Ala Asp Cys Ile His Ala Arg Asp Val Ser Lys Tyr Thr Asn Asp Glu
    130                 135                 140
Met Lys Asp Ile His Asn Gln Asp Ser Cys Glu Cys His Gly Leu Glu
145                 150                 155                 160
Asp Ile Gly Asp Ala Asp His Pro Ile Arg Thr Ala Pro Leu Ala Glu
                165                 170                 175
Leu Leu Pro Thr Pro Ala Asp Ser Cys Ala Ile Cys Leu Asp Val Ile
            180                 185                 190
Glu Asp Asp Asp Asp Ile Arg Gly Leu Thr Cys Gly His Ala Phe His
        195                 200                 205
Ala Ser Cys Val Asp Pro Trp Leu Thr Ser Arg Arg Ala Cys Cys Pro
    210                 215                 220
Leu Cys Lys Ala Asp Tyr Phe Thr Pro Lys Pro Arg Ser Asp Pro Val
225                 230                 235                 240
Val Glu Arg Ala Ser Thr Asp Arg Arg Ser Met Val Gly Met Tyr Ala
                245                 250                 255
Pro Ser Arg Pro Arg Pro Val Phe Ile Gly Trp Arg Ser Asn Pro Phe
            260                 265                 270
Arg Arg Thr Thr Ile Leu Pro Gln Arg Leu Met Arg Arg Asp Gly Ile
        275                 280                 285
Pro Pro Ser Gln Leu Ser Gly Ala Leu Asn Val Asp Ser Tyr Met Ala
    290                 295                 300
His Asn Ala Ser Asp Thr Arg Ser Glu Ile Ser Arg Pro Gln Pro Arg
305                 310                 315                 320
Gly Ser Met Arg Leu Phe Arg Leu His Asp Gly Ala Gly Arg Lys Arg
                325                 330                 335
Asp Ala
```

<210> 25192
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25192

```
Leu Thr Leu Phe Ser Gly Thr Ser Gly Gln Ala Lys Asn Tyr Ile Thr
1               5                   10                  15
Arg Thr Gln Ala Val Arg Lys Leu Gln Ile Ser Leu Pro Asp Phe Arg
            20                  25                  30
Arg Leu Cys Ile Phe Lys Gly Met Phe Arg Lys Tyr Asp Pro Leu Phe
        35                  40                  45
Leu Phe Ser Ile Cys Gly Gly Val Asp Pro Asp Arg Ile Ala Ser Ala
    50                  55                  60
Ile
65
```

<210> 25193
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (20)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25193
Gln Gln Gly Gly Leu Glu Gly Asn Ser Gly Glu Ser Arg Gln Arg Asp
1 5 10 15
Gln Ile Ser Xaa Thr Trp Met Lys Pro Arg Arg Ser Arg Pro Pro Arg
20 25 30
Arg Pro Glu Asn Leu Met Glu Gln Ile Asp Lys Phe Glu Pro Ala Ala
35 40 45
Pro Glu Ala Asp Thr Leu Pro Gln Pro Asp Leu Met Gly Thr Glu Ala
50 55 60
Gly Ser Leu Phe Ala Pro Phe Thr Phe Tyr Ile Ser Arg Glu Ala Pro
65 70 75 80
Arg Ala Pro Leu Glu Tyr Phe Leu Arg Pro Phe Gly Trp Glu
85 90

<210> 25194
<211> 279
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (277)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25194
Ser Asp Cys Phe Cys Asp Leu Gly Ile Tyr Pro Arg Glu Pro Arg Asn
1 5 10 15
Lys Lys Lys Ala Ser Lys Thr Ser Thr Pro Asn Thr Thr Phe Tyr Tyr
20 25 30
Thr Lys Asp Ile Gln Tyr Leu Leu His Glu Pro Leu Leu Arg Lys Phe
35 40 45
Arg Glu Gln Lys Ala Val Ala Lys Lys Ile Ala Arg Ser Leu Gly Arg
50 55 60
Gly Glu Val Gly Asp Ala Ala Arg Leu Glu Lys Asn His Ala Pro Lys
65 70 75 80
Leu Thr Leu Asp His Val Ile Lys Glu Arg Tyr Pro Thr Phe Ile Asp
85 90 95
Ala Leu Arg Asp Leu Asp Asp Ala Leu Ser Leu Leu Phe Leu Phe Ala
100 105 110
Asn Leu Pro Ser Thr Ala His Val Pro Pro Lys Thr Ile Ala Leu Cys
115 120 125
Gln Arg Leu Cys His Glu Phe Gln His Tyr Leu Ile Thr Thr Asn Ser
130 135 140
Leu Arg Lys Ser Phe Leu Ser Ile Lys Gly Ile Tyr Tyr Gln Ala Thr
145 150 155 160

```
Ile Gln Gly Gln Asp Ile Leu Trp Leu Val Pro Tyr Arg Phe Val Gln
                165                 170                 175
Arg Val Asn Gly Asp Val Asp Tyr Arg Ile Met Ala Thr Phe Val Asp
            180                 185                 190
Phe Tyr Thr Thr Leu Leu Gly Phe Val Asn Phe Arg Leu Tyr Ser Ser
        195                 200                 205
Ile Gly Leu Arg Tyr Pro Pro Lys Phe Asp Thr Arg Ser Asp Glu Asn
    210                 215                 220
Gly Ala Glu Leu Ala Ala Phe Thr Leu Glu Gly Arg Gly Val Gly Asp
225                 230                 235                 240
Ala Pro Lys Ala Ile Glu Ala Gly Asn Thr Gln Ala Thr Thr Ser Thr
                245                 250                 255
Asn Asn Lys Glu Val Ser Lys Glu Ile Gln Ala Lys Val Asp Asn Val
            260                 265                 270
Ile Lys Ser Ala Xaa Pro Gly
        275
```

<210> 25195
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25195

```
Leu Met Arg Leu Tyr Val Lys Asp Cys Ile Thr Met Gly Lys Phe Pro
1               5                   10                  15
Ile Ala Ala Val Phe Ser Thr Asn Pro Ile Ser Asp Val Ser Asn Ser
            20                  25                  30
Glu Gln Val Met Arg Ser Ser Thr Ser Lys Gly Thr Cys Val Thr Ile
        35                  40                  45
Ser Leu Gly Pro Lys Asn Asn Phe Leu Cys Leu Asp Pro Val Val His
    50                  55                  60
Met Leu Cys His Ser Ser Leu Gly Ile Pro Tyr Ser Ser Pro
65                  70                  75
```

<210> 25196
<211> 186
<212> PRT
<213> A.fumigatus

<400> 25196

```
Gln Val Ser Asn Asn Ser Phe Val Lys Thr Leu Thr Gly Lys Thr Ile
1               5                   10                  15
Thr Leu Asp Val Glu Ser Ser Asp Thr Ile Asp Asn Val Lys Ala Lys
            20                  25                  30
Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe
        35                  40                  45
Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile
    50                  55                  60
Gln Lys Val Arg Glu Ser Leu Thr Asp Asp Asp Trp Phe Arg Phe Val
65                  70                  75                  80
Tyr Ala His Gly Val Phe Ser Gly Asp Ala Ser Cys Ser Leu Asp Cys
                85                  90                  95
Trp Thr Trp Phe Pro Asp Pro Arg Ala Gly Pro Ser Ala Pro Gly Asp
            100                 105                 110
Val Trp Ile Val Met Glu Asp Leu Gln Leu Leu Arg Arg Met Cys Ser
        115                 120                 125
```

```
Ala Asp Arg Met Leu Leu His Met Phe Arg Ser Pro Pro Ser Thr Trp
    130                 135                 140
Ser Ser Val Cys Val Val Val Leu Leu Asn Pro Pro Ser Arg Leu Ser
145                 150                 155                 160
Leu Pro Ser Thr Thr Ala Arg Ser Pro Ser Ala Ala Ser Ala Thr Tyr
                165                 170                 175
Val Phe Val Pro Ile Ala Arg Pro Asn Met
            180                 185
```

<210> 25197
<211> 141
<212> PRT
<213> A.fumigatus

<400> 25197

```
Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Ile Ile Glu
1               5                   10                  15
Pro Ser Leu Lys Ala Leu Ala Ser Lys Tyr Asn Cys Glu Lys Ser Ile
            20                  25                  30
Cys Arg Lys Cys Tyr Val Arg Leu Cys Pro Asp Arg Ser Thr Gln His
        35                  40                  45
Val Thr Arg Tyr Trp Gly Arg Ser Leu Trp Asn Ser Leu Leu Thr Arg
    50                  55                  60
Ser Leu Tyr Arg Pro Val Phe Leu Pro Val Pro Pro Thr Ala Val Arg
65                  70                  75                  80
Arg Ser Ala Val Thr Ala Thr Ser Cys Ala Pro Arg Arg Ser Ser Ser
                85                  90                  95
Lys Arg Phe Leu Ser Cys Tyr Gly Phe Ser Ala Leu Leu Gly Glu Arg
            100                 105                 110
Asp Ala Arg Ser Tyr Asp Val Ile Ala Thr Trp Glu Val Leu Lys Gly
        115                 120                 125
Val Gly Met Met Lys His Tyr Ser Arg Ser His Ile Phe
    130                 135                 140
```

<210> 25198
<211> 133
<212> PRT
<213> A.fumigatus

<400> 25198

```
Ile Leu His Asn Asn Pro His Ile Ser Trp Arg Arg Arg Ser Cys Pro
1               5                   10                  15
Arg Ile Arg Lys Pro Ser Pro Ala Ile Gln Arg Thr Thr Cys Ile Ser
            20                  25                  30
Arg Lys Tyr Pro Met Arg Ile Asn Glu Thr Lys Pro Ile Val Val Arg
        35                  40                  45
Gln Arg Phe Ala Tyr Leu Leu Asn Val Val Val Ala Gln Gly Ala Ala
    50                  55                  60
Ile Leu Lys Leu Leu Thr Ser Glu Asp Gln Ala Leu Leu Val Arg Gly
65                  70                  75                  80
Asp Thr Leu Leu Val Leu Asp Leu Gly Leu Asp Val Val Asp Gly Val
                85                  90                  95
Ala Arg Leu Asn Val Glu Gly Asn Gly Leu Thr Arg Gln Gly Leu Asp
            100                 105                 110
Glu Thr Ile Val Arg Asn Leu Ser Val Met Ala Phe Pro Glu Val Pro
        115                 120                 125
```

Arg Ile Ser Cys Arg
130

<210> 25199
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25199
Gln Ser Thr His Leu Leu Ala Gln Thr Val Leu Pro Glu Asp Pro Glu
1 5 10 15
Thr Lys Ser Ser Asn Pro Ala Asn Asn Leu His Leu Pro Lys Ile Pro
20 25 30
His Ala His Lys Arg Asn Glu Thr Asn Arg Arg Pro Ser Glu Ile Arg
35 40 45
Val Pro Ser Glu Cys Cys Ser Arg Ser Gly Cys Gly His Pro Gln Ala
50 55 60
Ala Tyr Gln Arg Arg Ser Gly Ala Ala Gly Gln Gly Gly Tyr Pro Pro
65 70 75 80
Cys Pro Gly Ser Trp Pro
85

<210> 25200
<211> 73
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (17),(38),(73)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25200
Asp Ser Thr Lys Arg Trp Tyr Trp Asn Leu Ser Pro Arg Ala Ser Trp
1 5 10 15
Xaa His Gly Tyr Asp Gly Ile Val Met Gly Lys Thr Asn Trp Thr Leu
20 25 30
Ala Arg Arg Leu Pro Xaa Cys His Arg Ser Ile Lys Thr Arg Ile Thr
35 40 45
Ile Ile Glu Asn Met Arg Leu Thr His Asn Val Leu Val Ser Phe Thr
50 55 60
Asp Thr Thr Gly Gly Ile Ser Cys Xaa
65 70

<210> 25201
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25201
Gly Pro Asn Leu Cys Thr Gly Leu Leu Tyr Trp Leu Thr Arg His Gln
1 5 10 15
Ser Glu Gln Leu Thr Ser Phe Asn Ser Ile Asp Cys Gln Gln Leu Thr
20 25 30
Gly Lys Asn Ile Glu Gln Arg Ser Asp His Val Gln Arg Arg Ala Met
35 40 45

```
His Arg Asn Ala Val Leu Phe Cys Asp Tyr Glu Leu Ile Thr Leu Tyr
    50                  55                  60
Leu Ala Thr Phe Asp Arg Tyr Ser Val Arg Ala Leu Leu Cys
65                  70                  75
```

<210> 25202
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25202
```
Val Arg Gly Val Leu Leu Asp Thr Cys Thr Lys Tyr Ser Lys Leu Ser
1               5                   10                  15
Gln Ala Val Asp Ala Gly Pro Ala Gln Arg Leu Gln Val Leu Gln Ser
            20                  25                  30
His Lys Pro Ile Asn Val Pro Phe Gln Lys His Ala Met Ser Ser Leu
        35                  40                  45
Phe Thr Lys Thr Leu Thr Gly Arg Gln Gln Phe Gln Ala Pro Tyr Ala
    50                  55                  60
```

<210> 25203
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25203
```
Arg Ile Arg Pro Asn Thr Arg Arg Ser Pro Ala Lys Met Ser Leu Thr
1               5                   10                  15
Asn Cys Arg Phe Tyr Glu Glu Lys Tyr Pro Glu Val Asp Ser Tyr Val
            20                  25                  30
Met Val Asn Val Lys Gln Val Cys Asp Cys Phe Tyr Asp Asn Gly Arg
        35                  40                  45
Ser Phe Ala Gly Ile Phe Asp Tyr Leu Ser Val Val His Ser Ala Asp
    50                  55                  60
Arg Arg Asn Gly Arg Ile Pro Glu Gly Ser Ser Ile
65                  70                  75
```

<210> 25204
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25204
```
Gln Ile Ala Val Ser Thr Arg Arg Ser Thr Arg Arg Ser Thr Ala Met
1               5                   10                  15
Ser Trp Ser Met Ser Ser Arg Tyr Ala Thr Val Ser Met Ile Met Val
            20                  25                  30
Val Leu Leu Gln Glu Ser Ser Thr Ile Ser Leu Trp Phe Ile Leu Gln
        35                  40                  45
Ile Ala Glu Met Gly Ala Tyr Leu Lys Ala Leu Gln Phe Asp Asn Leu
    50                  55                  60
Asn Ala
65
```

<210> 25205
<211> 138

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25205
Ser Pro Arg Thr Ala Val Pro Ser Ser Ala Xaa Arg Val Asp Glu Glu
1 5 10 15
Ala Ile Gln Ala Tyr Glu Gln Ala Leu Thr Ile Asn Pro Asn Phe Val
20 25 30
Arg Ala Arg Tyr Asn Leu Gly Val Ser Cys Ile Asn Ile Gly Cys Tyr
35 40 45
Pro Glu Ala Ala Gln His Leu Leu Gly Ala Leu Ser Met His Arg Val
50 55 60
Val Glu Gln Glu Gly Arg Glu Arg Ala Arg Glu Ile Val Gly Gly Gly
65 70 75 80
Glu Gly Gly Ile Asp Asp Glu Gln Leu Glu Arg Met Leu His Ile Ser
85 90 95
Gln Asn Gln Ser Thr Asn Leu Tyr Asp Thr Leu Arg Arg Val Phe Ser
100 105 110
Gln Met Gly Arg Arg Asp Leu Ala Asp Met Val Val Ala Gly Met Asp
115 120 125
Val Asn Val Phe Arg Lys Glu Phe Asp Phe
130 135

<210> 25206
<211> 75
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (64)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25206
Phe Thr Phe Pro Ser Thr Arg Met Ala Val Val Thr Gly Ala Gln Leu
1 5 10 15
Ile Ala Arg Thr Leu Arg Asp Leu Gly Val Thr Val Ile Phe Gly Ile
20 25 30
Val Gly Ile Pro Val Ile Glu Ile Ala Glu Ser Ala Ile Asp Leu Gly
35 40 45
Ile Arg Phe Ile Ala Phe Arg Asn Glu Gln Ala Cys Ser Tyr Ala Xaa
50 55 60
Ser Val Tyr Gly Tyr Leu Thr Gly Gln Pro Gly
65 70 75

<210> 25207
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25207

```
Ala Ser Tyr Val Val Arg Ser Ile Thr Thr Gly Thr Arg Ser Arg Leu
1               5                  10                  15
Asn Phe Gly Ala Gln Trp Asn Glu Gln Ser Asn Pro Asp Asn Val Thr
            20                  25                  30
Ala Asp Ile Ile Ser Thr Val Glu Phe Asp His Thr Gly Asn Tyr Leu
        35                  40                  45
Ala Thr Gly Asp Lys Gly Gly Arg Val Val Leu Phe Glu Arg Asn Glu
    50                  55                  60
Thr Val Ala Thr Thr Phe Ser Phe His Ser Ser Asn Ala Gln Gly Ser
65                  70                  75                  80
Asn Glu Ser Thr Arg Lys Lys Pro Ala Ser Ile Ser Phe Thr Pro
                85                  90                  95

<210> 25208
<211> 120
<212> PRT
<213> A.fumigatus

<400> 25208
Leu Pro Ser His Arg Thr Ile His Ser Met Val Tyr Asn Ala Met Lys
1               5                  10                  15
Met Phe Met Glu Ile Asn Pro Gln Leu Phe Asp Glu Cys Ser His Glu
            20                  25                  30
Tyr Asn Glu Arg Gln Asn Ser Ala Glu Gln Arg Glu Lys Ser Arg Gln
        35                  40                  45
Glu Arg Trp Glu Lys Val Leu Glu Arg Ala Lys Gln Arg Lys Asn Gly
    50                  55                  60
Leu Leu Pro Pro Pro Ala Pro Pro Ala Glu Val Pro Ala Gln Val Asp
65                  70                  75                  80
Glu Val Asp Ala Leu Ala Gln Asp Asn Gln Lys Arg Leu Asn Ala Leu
                85                  90                  95
Lys Leu Glu Asp Ser Ala Ser Asn Lys Glu Arg Lys Glu Gly Ala Thr
            100                 105                 110
Ala Thr Val Ser Ser Ile Leu Pro
        115                 120

<210> 25209
<211> 381
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (282),(306)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25209
Ile Arg Ser Ala Arg Val Arg His Ser Lys Ser Leu Arg Glu Glu Ala
1               5                  10                  15
Ala Pro Ala Gln Thr Val Thr Glu Glu Val Pro Leu Val Asp Ser Lys
            20                  25                  30
Pro Val Glu Leu Ser Ser Ala Glu Ser Thr Lys Ala Glu Lys Ala Pro
        35                  40                  45
Thr Lys Met Thr Thr Asp Glu Ala Pro Leu Ala Glu Lys Ser Ser Glu
    50                  55                  60
Lys Thr Val Pro Ala Glu Pro Ile Ala Glu Glu Lys Val Gln Ala Thr
```

```
65                  70                  75                  80
Ile Gly Asp Glu Pro Leu Ser Arg Asn Asn Val Glu Glu Gln Pro Lys
                85                  90                  95
Gln Lys Ser Val Glu Ala Asn Lys Ala Ala Asp Glu Ala Val Leu Glu
            100                 105                 110
Glu Pro Ile Lys Glu Ser Ala Pro Glu Glu Ile Pro Glu Asp Ser Arg
        115                 120                 125
Asn Ala Val Val Ala Asp Ala Pro Val Thr Glu Ser Ser Thr Thr Glu
    130                 135                 140
Lys Val Glu Val Thr Ala Pro Asp Ala Glu Lys Glu Pro Ala Leu Lys
145                 150                 155                 160
Glu Ser Ala Lys Glu Pro Ile Gln Glu Glu Ile Pro Glu Ala Ser Glu
                165                 170                 175
Lys Glu Val Ala Ala Glu Thr Pro Val Thr Glu Ser Ser Thr Thr Glu
            180                 185                 190
Lys Val Glu Val Thr Ala Leu Asp Ala Glu Lys Glu Pro Ala Leu Glu
        195                 200                 205
Glu Ser Thr Lys Glu Pro Ile His Glu Glu Gln Thr Ile Glu Thr Val
    210                 215                 220
Val Thr Ala Glu Val Thr Ala Ala Lys Glu Pro Glu Ala Gln Ala Thr
225                 230                 235                 240
Glu Glu Pro Val Ala Asn Glu Ser Ile Asn Gln Arg Gly Arg Gly Asn
                245                 250                 255
Asn Gly Gly Ser Leu Leu Leu Ala Lys Asn Ser Ala Lys Glu Pro Ile
            260                 265                 270
Ser Asn Glu Thr Ala Ile Arg Val Thr Xaa Ala Asp Glu Ser Thr Lys
        275                 280                 285
Glu Leu Ser Thr Gly Phe Ala Ala Ala Glu Asp Ile Thr Gly Lys Gly
    290                 295                 300
Ala Xaa His Leu Thr Glu Val Ser Thr Ala Ala Gly Arg Thr Gly Gln
305                 310                 315                 320
Gly Phe Cys Gln Arg Arg Ile Cys Cys Lys Ile Gly Ser Asn Arg Gly
                325                 330                 335
Glu Pro Gly Thr His Leu Arg Thr Ile Pro Leu Gln Trp Leu Phe Pro
            340                 345                 350
Lys Glu Pro Glu Pro Pro Asn Ala Glu Lys Thr Ala Val Glu Glu Ser
        355                 360                 365
Phe Trp Arg Gln Phe Pro Lys Pro Pro Trp Asp Glu Phe
    370                 375                 380
```

<210> 25210
<211> 228
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25210

```
Ser Ala Pro Leu Pro Val Met Ser Ser Ala Ala Ala Asn Pro Val Asp
1               5                   10                  15
Ser Ser Phe Val Asp Ser Ser Xaa Trp Val Thr Arg Ile Ala Val Ser
            20                  25                  30
Leu Leu Ile Gly Ser Leu Ala Glu Phe Leu Ala Ser Ser Arg Leu Pro
```

```
        35                  40                  45
Pro Leu Leu Pro Arg Pro Leu Trp Leu Met Asp Ser Leu Ala Thr Gly
    50                  55                  60
Ser Ser Val Ala Cys Ala Ser Gly Ser Leu Ala Ala Val Thr Ser Ala
65                  70                  75                  80
Val Thr Thr Val Ser Ile Val Cys Ser Ser Trp Ile Gly Ser Leu Val
                85                  90                  95
Asp Ser Ser Arg Ala Gly Ser Phe Ser Ala Ser Ser Ala Val Thr Ser
            100                 105                 110
Thr Phe Ser Val Val Asp Asp Ser Val Thr Gly Val Ser Ala Ala Thr
        115                 120                 125
Ser Phe Ser Glu Ala Ser Gly Ile Ser Ser Trp Ile Gly Ser Leu Ala
    130                 135                 140
Asp Ser Leu Arg Ala Gly Ser Phe Ser Ala Ser Gly Ala Val Thr Ser
145                 150                 155                 160
Thr Phe Ser Val Val Asp Asp Ser Val Thr Gly Ala Ser Ala Thr Thr
                165                 170                 175
Ala Phe Leu Glu Ser Ser Gly Ile Ser Ser Gly Ala Asp Ser Leu Ile
            180                 185                 190
Gly Ser Ser Arg Thr Ala Ser Ser Ala Ala Leu Phe Ala Ser Thr Asp
        195                 200                 205
Phe Cys Phe Gly Cys Ser Ser Thr Leu Phe Arg Glu Ser Gly Ser Ser
    210                 215                 220
Pro Met Val Ala
225

<210> 25211
<211> 154
<212> PRT
<213> A.fumigatus

<400> 25211
Ser Phe Gln Pro Arg Gly Glu Asp Ala Lys His Pro Asn Ile Val Gly
1               5                   10                  15
Val Lys Leu Thr Cys Gly Asn Thr Gly Lys Leu Ala Arg Ile Ala Ala
            20                  25                  30
Gln Ala Lys Pro Asp Phe Leu Thr Phe Gly Gly Ser Ala Asp Phe Thr
        35                  40                  45
Leu Gln Thr Leu Ile Ala Gly Gly Ala Gly Ile Ile Gly Gly Val Ala
    50                  55                  60
Asn Leu Ile Pro Arg Ser Cys Val Arg Leu Met Glu Leu Tyr Arg Ser
65                  70                  75                  80
Gly Lys Ile Ala Glu Ala Gln Thr Leu Gln Ala Val Val Ala Arg Ala
                85                  90                  95
Asp Trp Leu Ala Ile Lys Gly Gly Phe Val Ala Val Lys Ser Ala Leu
            100                 105                 110
Gln Ser Tyr Arg Gly Tyr Gly Ala Leu Pro Arg Arg Pro Cys Val Pro
        115                 120                 125
Pro Ser Ala Glu Glu Ala Ser Ala Leu Lys Asn Ala Phe Gln Glu Gly
    130                 135                 140
Met Glu Met Glu Arg Ser Phe Glu Val Ala
145                 150

<210> 25212
<211> 71
<212> PRT
```

<213> A.fumigatus

<400> 25212
Arg Gln Arg Leu Ala Ser Gln Leu Gly Ser Asn Ser Thr Leu Ala Arg
1 5 10 15
Glu Phe Ser Gly Asp Arg Ala Ala Ser Ser Val Glu Glu Ile Ser Thr
20 25 30
Leu Gly Leu Asn Ala Asp Gln Glu Ala Leu Val Arg Lys Thr Tyr Tyr
35 40 45
Glu Ala Leu Arg Met Val Trp Val Met Val Ser His Arg Asn Ile Ala
50 55 60
Thr Val Pro Val Gln Ser Cys
65 70

<210> 25213
<211> 133
<212> PRT
<213> A.fumigatus

<400> 25213
Leu Val Ser Ile Thr Ile His Gly Val Val Arg Arg Gly Ala Cys Val
1 5 10 15
Arg Ser Gln Pro Ser Leu Pro His Cys Pro Leu Gln Ser Glu Val Leu
20 25 30
Arg Leu Thr Arg Cys Leu Arg Arg Thr Arg Ser Thr Glu Glu Phe Ser
35 40 45
Tyr Phe Thr Leu Arg Lys Lys Glu Thr Glu Lys Ala Pro Ala Thr Ser
50 55 60
Leu Phe Gly Ile Ala Cys Ser Arg Gln Leu Asp Ser Asn Leu Leu Ile
65 70 75 80
Asn Arg Pro Ala Asp Val Thr Arg Ser Thr Val Gln Lys Ala Val Val
85 90 95
Val Ile Thr Asp Thr Pro Gln Ser Val Gly Gln Leu Arg Glu Lys Leu
100 105 110
Ser Val Val Thr Ser Ala Trp Phe Ala Gln Arg Tyr Val Glu Asn Ile
115 120 125
His Val Cys Val Lys
130

<210> 25214
<211> 133
<212> PRT
<213> A.fumigatus

<400> 25214
Phe Leu Ala Gly Ser Pro Arg Ser Asn Leu Gly Val Pro Leu Lys Val
1 5 10 15
Val Ser Ser Pro Asn Val Gln Ser Pro Ala Gly Asn Ser Pro Thr Ser
20 25 30
Arg Leu Gly Pro Ile Pro Lys Phe Leu Gly Phe Ser Pro Ser Ser Lys
35 40 45
Leu Phe Thr Tyr Phe Ser Trp His Gly His His Lys Ser Ser Phe Tyr
50 55 60
Asp Val Ala Trp Val Leu Thr Gly Gln Pro Ile Val Gly Ser Asn Leu
65 70 75 80
Ala Cys Ile Phe Thr Asp Val Ala Gly Ile Trp Thr Gly Ile Pro Asp

```
                85                  90                  95
Val Ser Val Leu Leu Ser His Ile Ala Arg Val Leu Thr Asn Ile Ala
            100                 105                 110
Gln Leu Gln Pro Tyr Val Pro Gln Leu Gln Pro Gly Phe Ser Cys Val
        115                 120                 125
Gln Pro Tyr Val Ala
    130
```

<210> 25215
<211> 179
<212> PRT
<213> A.fumigatus

<400> 25215

```
Ala Pro Phe Pro Ser Phe Leu Gly Ser Pro Pro Val Pro Ser Tyr Ser
1               5                   10                  15
Pro Thr Ser Leu Gly Met Gly Ile Thr Ser Pro Arg Phe Met Thr Ser
            20                  25                  30
Pro Gly Phe Leu Arg Ala Ser Pro Ser Leu Ala Pro Thr Ser Arg Ala
        35                  40                  45
Tyr Ser Pro Thr Ser Pro Ala Tyr Gly Gln Ala Ser Pro Thr Ser Pro
    50                  55                  60
Ser Tyr Ser Pro Thr Ser Pro Gly Phe Ser Pro Thr Ser Pro Asn Tyr
65                  70                  75                  80
Ser Pro Thr Ser Pro Ser Phe Ser Pro Ala Ser Pro Ala Phe Ser Pro
                85                  90                  95
Thr Ser Pro Ser Tyr Ser Pro Thr Ser Pro Ala Ile Gly Gly Ala Gly
            100                 105                 110
Arg His Leu Ser Pro Thr Ser Pro Thr Ser Pro Lys Tyr Thr Pro Thr
        115                 120                 125
Ser Pro Gly Trp Ser Pro Thr Ser Pro Gln Thr Tyr Ser Pro Thr Ser
    130                 135                 140
Pro Asn Phe Ala Gly Ser Pro Thr Ser Pro Gly Gly Pro Thr Ser Pro
145                 150                 155                 160
Gly Tyr Ser Pro Thr Ser Pro Ala Phe Ser Pro Ser Tyr Val Pro Ser
                165                 170                 175
Ser Ser Ala
```

<210> 25216
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25216

```
Thr Gln Arg Glu Leu Pro Gln Val Pro Val Val Glu Glu His Ser Thr
1               5                   10                  15
Phe Phe Asn Thr Thr Glu Tyr Lys Ala Leu Phe Ser Leu Ser Cys Arg
            20                  25                  30
Ile Ser Arg Glu His Asp Glu Ser Phe Ser Thr Ala Tyr Leu Ser Ile
        35                  40                  45
Tyr Thr His Leu Tyr Arg His Arg Gly Tyr Asn Tyr Thr Ile Asn Pro
    50                  55                  60
Gly Ala Glu Cys Leu
65
```

<210> 25217
<211> 108
<212> PRT
<213> A.fumigatus

<400> 25217
Phe Gly Ile Ser Gln Val Lys Ser Gln Pro Lys Pro Ala Thr Ala Ala
1 5 10 15
Lys Ala Ala Asn Thr Thr Arg Gly Arg Gly Ala Arg Arg Gly Arg Arg
20 25 30
Gly Gly Gly Arg Ser Ser Asn Arg Pro Lys Pro Lys Thr Val Glu Glu
35 40 45
Leu Asp Ala Glu Met Val Asp Tyr Phe Ala Ser Asn Glu Asn Ala Gly
50 55 60
Pro Ala Asp Ala Asn Ala Pro Ala Ala Ala Asn Gly Ala Val Gln Gln
65 70 75 80
Pro Ala Ala Gly Gly Glu Asp Leu Gly Met Ala Glu Ile Ser Val Ser
85 90 95
Phe Ala Asp Phe Asn Ala His Trp Thr His Arg His
100 105

<210> 25218
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25218
Ser Ala Gly Pro Val Lys Arg Val Met Leu Thr Tyr Asn Lys Asn Gly
1 5 10 15
Thr Ser Arg Gly Ile Ala Ser Ile Val Phe Ser Arg Pro Asp Thr Ala
20 25 30
Ala Lys Ala Ala Lys Glu Leu Asn Gly Leu Leu Val Asp Gly Arg Pro
35 40 45
Met Lys Val Arg Gly Ala Ser Ser Ser Phe Ser Phe Gln Pro Ser Leu
50 55 60
Thr Leu Arg Arg Leu Lys
65 70

<210> 25219
<211> 82
<212> PRT
<213> A.fumigatus

<400> 25219
Gln Pro Ser Pro Pro Pro Gln Glu Thr Ser Pro Gln Pro Pro Pro Ala
1 5 10 15
Ser Pro Ala Pro Gly Thr Tyr Ser Ser Arg Pro His Tyr His Leu Asn
20 25 30
Arg Leu Asn Leu Pro Ala Gly Thr Glu Leu Lys Lys Arg Pro Pro Val
35 40 45
Asn Ala Pro Pro Glu Arg Leu Met Pro Met Pro Glu Gly Asn Leu Leu
50 55 60
Arg Arg Ile Ala Gly Pro Val Pro Gly Cys Leu Val Gly Ser Ala Pro
65 70 75 80
Arg Ser

<210> 25220
<211> 217
<212> PRT
<213> A.fumigatus

<400> 25220
Leu Ile Thr Asn Ser Thr Ser Lys Val Val Phe Ala Tyr Gly Pro Val
1 5 10 15
Ile Met Val Ser Cys Pro Ile Cys Gly Asn Ser Val Pro Ser Leu Lys
20 25 30
Ile Asn Asp His Ile Asp Ser Asn Cys Glu Asn Phe Ile Glu Glu Pro
35 40 45
Thr Ser Ser Thr Gly Glu Pro Gly Ser Ser His Lys Thr Pro Val Pro
50 55 60
Ser Phe Phe Gln Pro Thr Ser Val Arg Lys Ala Ala Ser Gln Ser Ile
65 70 75 80
Pro Gln Asn Asp Ser Pro Ser Ala Pro Ser Pro Leu Arg Pro Ala Ser
85 90 95
Gly Lys Arg Thr Ile Thr His Glu Lys Glu Ser Ala Leu Asn Gly Asp
100 105 110
Asn Pro Asp Gln Gly Glu Ala Gln Arg Glu Pro His Pro Lys Lys Pro
115 120 125
Lys Val Asn Ala Leu Gln Lys Ala Ala Pro Leu Ala Glu Arg Met Arg
130 135 140
Pro Arg Thr Leu Asp Glu Val Cys Gly Gln Glu Leu Val Gly Pro Asn
145 150 155 160
Gly Val Leu Arg Gly Leu Ile Glu Gln Asp Arg Val Pro Ser Met Ile
165 170 175
Leu Trp Gly His Ala Gly Thr Gly Lys Thr Thr Ile Ala Arg Val Ile
180 185 190
Ala Ser Met Val Gly Ser Arg Phe Val Glu Ile Asn Ser Thr Thr Thr
195 200 205
Gly Val Ala Glu Cys Lys Lys Ile Phe
210 215

<210> 25221
<211> 153
<212> PRT
<213> A.fumigatus

<400> 25221
Arg Arg Lys Gly Pro Thr Gly Arg Phe Glu Tyr Leu Gly Asn Gly Arg
1 5 10 15
Val Ile Ile Ser Gly Lys Glu Arg Arg Val Arg Ser Phe Lys Arg Ile
20 25 30
Cys Gly Gly Thr Gly Ile Thr Pro Ile Phe Gln Val Leu Arg Ala Val
35 40 45
Met Gln Asp Pro Gln Asp Pro Thr Ser Cys Val Val Leu Phe Gly Asn
50 55 60
Arg Gln Glu Glu Asp Ile Leu Cys Arg Ala Glu Leu Asp Ala Phe Glu
65 70 75 80
Ala Ser Asp Lys Asn Lys Cys Lys Ile Val His Thr Leu Ser Lys Ala
85 90 95
Pro Asp Thr Trp Ala Gly Arg Arg Gly Arg Ile Gly Glu Ala Leu Leu
100 105 110

```
Lys Glu Phe Ala Val Pro Asp Asp Glu Ser Met Val Leu Ile Cys Gly
        115                 120                 125
Pro Glu Ala Met Glu Asn Ser Ala Lys Thr Ile Leu Leu Ala Gln Gly
    130                 135                 140
Trp Lys Glu Ser Asn Leu His Phe Phe
145                 150
```

<210> 25222
<211> 210
<212> PRT
<213> A.fumigatus

<400> 25222

```
Asp Ala Leu Leu His Pro Ala Cys Arg Ser Leu Pro Gly Pro Leu Ala
1               5                   10                  15
Phe Ser Asn Ala Ser Ala Ala Ser Gly Trp Ala Gln Lys Ile Ser Pro
            20                  25                  30
Tyr Ala Ser Gly Tyr His Leu Lys Ala Ala Phe His Ala Asn Asp Gln
        35                  40                  45
Thr Asn Ala Glu Arg Leu Leu Arg Ser Val Trp Gly Pro Met Ser Asp
    50                  55                  60
Pro Ser Leu Ala Asn Tyr Thr Gly Cys Thr Trp Glu Thr Leu Asn Ala
65                  70                  75                  80
Asp Gly Thr Pro Gly Leu Gly Ala Ala Thr Ser Leu Cys His Ala Trp
                85                  90                  95
Gly Ser Gly Pro Thr Ala Asp Leu Ser Arg Tyr Val Leu Gly Val Gln
            100                 105                 110
Ala Val Thr Pro Gly Phe Lys Glu Trp Thr Val His Pro Gln Thr Leu
        115                 120                 125
Gly Leu Gly Tyr Ala Arg Gly Lys His Pro Val Pro Gln Gly Asn Ile
    130                 135                 140
Arg Val Asp Trp Ser Phe Gly Lys Asp Gly Leu Leu Asn Met Thr Val
145                 150                 155                 160
Thr Ala Pro Ala Gly Thr Lys Gly Ile Ile Phe Pro Pro Ser Pro Leu
                165                 170                 175
Lys Val Pro Leu Ser Lys Tyr Arg Val Ser Gly His Ala Arg Lys Val
            180                 185                 190
Gly Glu Gly Phe Glu Ile Gln Gly Gly Gln Ala Phe Thr Leu Gln Gln
        195                 200                 205
Ser Arg
    210
```

<210> 25223
<211> 141
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5),(14),(22),(78),(81)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25223

```
Glu Tyr Phe Pro Xaa Arg Ser Ser Leu Val Ile Phe Val Xaa Tyr Arg
1               5                   10                  15
Asp Phe Lys Val Pro Xaa Glu Tyr Ala Pro Leu Ala Ile Arg Thr Arg
```

```
            20                  25                  30
Ala Ala Ala Leu Ala Thr Ala Ser Asn Trp Ile Phe Thr Tyr Leu Val
        35                  40                  45
Val Glu Ile Thr Pro Val Ser Ile Lys Ser Ile Gly Trp Arg Thr Tyr
    50                  55                  60
Ile Tyr Phe Ser Val Phe Asn Phe Cys Phe Ile Pro Leu Xaa Tyr Ile
65                  70                  75                  80
Xaa Tyr Pro Glu Thr Arg Asn Leu Ser Leu Glu His Ile Asp Arg Leu
                85                  90                  95
Phe Thr Gly Glu Lys Ile Leu Leu His Leu Pro Gln Ser Met Leu Ala
            100                 105                 110
Asp Ala Glu Asp Ala Val Ala Pro Gly Thr Asp Asn Ser Asp Gly Lys
        115                 120                 125
Asp Val Asp Leu Arg Glu Val Glu Asn Val Lys Leu Gly
    130                 135                 140
```

<210> 25224
<211> 265
<212> PRT
<213> A.fumigatus

<400> 25224

```
Arg Lys Pro Glu Val Gly Asn Pro Gly Gln Gly Arg Pro Ser Ser Thr
1               5                   10                  15
Ala Gly Pro Phe Leu Glu Pro Val Lys Arg Gly Lys Phe Leu Asp His
            20                  25                  30
Lys Gly Glu Arg Trp Thr Leu Ala Gly Glu Val Ala Leu Glu Ala Leu
        35                  40                  45
Gly Gly Pro Lys Val Val Trp Lys Pro Gly Arg Thr Asp Leu Val Asp
    50                  55                  60
Asp Ser Lys Val Pro Pro Arg Gly Arg Leu Pro Asp Ala Thr Gln Gly
65                  70                  75                  80
Ala Glu His Leu Arg Ala Val Phe Tyr Arg Met Gly Phe Asn Asp Gln
                85                  90                  95
Glu Ile Val Ala Leu Ala Gly Gly His Thr Leu Gly Arg Cys His Ile
            100                 105                 110
Asp Arg Ser Gly Phe Gln Gly Pro Trp Val Asn Asn Pro Thr Arg Phe
        115                 120                 125
Ser Asn Gln Phe Phe Lys Leu Leu Leu Thr Leu Asp Trp Lys Pro Lys
    130                 135                 140
Thr Leu Pro Asn Gly Ile Ser Gln Phe Val Tyr Val Asp Pro Asp Ala
145                 150                 155                 160
Glu Glu Gly Asp Glu Pro Leu Met Met Leu Pro Thr Asp Ile Ala Leu
                165                 170                 175
Lys Thr Asp Pro Ala Phe Arg Val Trp Val Asp Lys Tyr Ala Ala Asp
            180                 185                 190
Lys Asp Leu Phe Phe Asp His Phe Ala Lys Ala Phe Ala Lys Leu Met
        195                 200                 205
Glu Leu Gly Ile Lys Arg Asp Glu Asn Asp Arg Val Ile Asn Ala Asp
    210                 215                 220
Asn Val Lys Gly Gly Tyr Ile Ser Ala Pro Lys Lys Ser Asn His Pro
225                 230                 235                 240
Thr Gly Pro Ala Lys Gly Ala Gln Gly Gly Cys Pro Val Ala Ala Ser
                245                 250                 255
Gln Gly Gly Cys Pro Arg Ala Lys Leu
            260                 265
```

<210> 25225
<211> 115
<212> PRT
<213> A.fumigatus

<400> 25225
Val Ser Ile Arg Asn Ala Ser Arg Ala Cys Ser Gly Leu Met Ser Glu
1 5 10 15
Tyr Phe Val Glu Glu Met Ser Arg Leu Leu Asp Glu Glu Lys Gln Met
20 25 30
Thr His Lys Ala Leu Ser Ala Arg Val Asp Ala Lys Ile Asp Asp Ala
35 40 45
Lys Phe Phe Asn Lys Leu Gly Lys Leu Pro Ala Glu Phe Asp Ala Gln
50 55 60
Gln Ile Asp Trp Ala Tyr Gly Pro Val Ile Gln Ser Gly Gly Lys Tyr
65 70 75 80
Asp Leu Arg Leu Thr Ala Val Ser Asp Asn Ser Asn Leu Glu Pro Gly
85 90 95
Ile Ile Ile Ala Gly Phe Gly Ile Arg Tyr Lys Thr Tyr Ser Ser Met
100 105 110
Ile Ala Arg
115

<210> 25226
<211> 97
<212> PRT
<213> A.fumigatus

<400> 25226
Phe Phe Arg Gln Ala Lys His Thr Leu His Asp Asn Leu Asn Ser Asn
1 5 10 15
Ala His Gln Ile Met Ala Glu Glu Ile Val Ile Asp Lys Thr Leu Phe
20 25 30
Phe Asn Arg Leu Ser Ser Phe Tyr Ala Ala Trp Arg Ala Asp Lys Arg
35 40 45
Ser Ser His Pro Thr Phe Gly Gly Val Gly Ser Ile Val Ile Leu Met
50 55 60
Gly Lys Thr Asp Glu Ala Ser Thr Phe Gln Lys Asn Asn Ala Met His
65 70 75 80
Val Cys Ser Ile Leu Thr Thr Ser Phe Gly Thr Ser Phe Ala Thr Leu
85 90 95
Thr

<210> 25227
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25227
Gln Pro Ile Glu Lys Gln Ser Leu Val Tyr His Asn Leu Phe Ser His
1 5 10 15
Asp Leu Met Gly Val Gly Val Glu Ile Val Val Gln Gly Val Leu Ser
20 25 30
Leu Pro Glu Glu Leu Glu Val Tyr Lys Ser Ser Gln Ala Ser Leu Val

```
        35                  40                  45
Ala Leu Ser Ser Gly Phe Gly Asn Ala Thr Met Val Asn Thr Arg Phe
    50                  55                  60

<210> 25228
<211> 248
<212> PRT
<213> A.fumigatus

<400> 25228
Cys Pro Ser Pro Arg Val Lys Thr Gln Leu His Ala Asp Asn Cys Ala
1               5                   10                  15
Asn Thr Gly Val Ser Ser Ser Thr Val Ser Ser Ser Val Val Pro Val
            20                  25                  30
Thr Pro Thr Ser Ser Ala Val Gln Glu Ser Thr Pro Ala Thr Ser Pro
        35                  40                  45
Thr Pro Glu Ser Ser Ala Pro Gly Ser Thr Thr Thr Val Lys Thr Thr
    50                  55                  60
Met Thr Ser Thr Phe Cys Pro Glu Ser Thr Ile Pro Ala Gly Ser Gly
65                  70                  75                  80
Ser Gln Pro Ser His Ser Ala Ser Ala Thr Gln Ser Ser Ser Pro Asn
                85                  90                  95
Cys Pro Thr Asp Leu Ser Gly Gln Tyr Glu Phe Pro His Leu Ile Ile
            100                 105                 110
Pro Val Asp Ser Ser Ser Pro Asn Lys Ala Pro Gly Thr Ser Phe Asn
        115                 120                 125
Gly Thr Val Ser Ser Thr Val Ser Ser Ile Phe Asn Phe Asp Ile Pro
    130                 135                 140
Ser Ser Asp Ala Gly Lys Thr Cys Ser Leu Val Phe Leu Phe Pro Lys
145                 150                 155                 160
Lys Glu Asp Leu Glu Thr Ser Ser Tyr Ser Phe Ser Gly Asp Gly Lys
                165                 170                 175
Ile Asp Phe Ala Met Leu Glu Ser Ala Ala Thr Ser Gln Thr Ser Phe
            180                 185                 190
Ser Asn Ala Pro Lys Val Lys Gln Asp Tyr Gly Val Thr Thr Val Ser
        195                 200                 205
Pro Gly Asn Ser Tyr Leu Ile Ser Thr Phe Gln Cys Pro Ala Gly Gln
    210                 215                 220
Ala Val Gly Phe Glu Met Lys Asn Ala Gly Ser Thr Asn Leu Asn Phe
225                 230                 235                 240
Phe Glu Asp Tyr Asn Pro Ala Pro
                245

<210> 25229
<211> 221
<212> PRT
<213> A.fumigatus

<400> 25229
Gln Cys Pro Ser Thr Ser Glu Lys Pro Leu Arg Asp Asp Ile Ser Gln
1               5                   10                  15
Ile His Thr Ile Tyr Ser Phe Tyr Val Arg Glu Ser Val Ala Thr Phe
            20                  25                  30
Leu Arg Gln Pro Pro Pro Leu Glu Ser Leu Ile Ser Ser Phe Arg Glu
        35                  40                  45
Ile Gln Ser Arg Gly Leu Pro Tyr Arg Val Ala Ile Asp Thr Thr Gly
```

```
    50                  55                  60
Lys Val Leu Gly Tyr Gly Tyr Leu Ala Pro Phe Asn Gly Thr Arg Met
65                  70                  75                  80
Ala Tyr Ala Pro Thr Val Glu Val Ser Leu Tyr Val His Pro Glu Tyr
                85                  90                  95
Thr Ser Lys Gly Val Gly Ser Arg Leu Leu Ser Ser Ile Leu Glu Ser
            100                 105                 110
Val Glu Ser Glu Ala Gly Val Trp His Arg Ala Tyr Glu His Lys Glu
        115                 120                 125
Tyr Glu Ser His Val Gln Val Ile Pro Glu Asp Glu Gly Arg Val Cys
    130                 135                 140
Ser Ile Ile Ala Cys Met Ala Val Asp Thr Thr Gly Lys Glu Asn Gly
145                 150                 155                 160
Glu Gly Leu Arg Lys Trp Tyr Glu Gln Arg Gly Phe Val Glu Arg Gly
                165                 170                 175
Arg Leu Lys Asn Val Gly Tyr Lys Gln Gly Arg Trp Cys Asp Ser Leu
            180                 185                 190
Ser Ile Leu Trp Phe Ser Leu Pro Thr Asp Met Arg Arg Ile Asp Thr
        195                 200                 205
Val Tyr Leu Gln Tyr Ser Val Arg Arg Asp Ala Asn Leu
    210                 215                 220
```

<210> 25230
<211> 172
<212> PRT
<213> A.fumigatus

<400> 25230

```
Val Ile Tyr Ile Pro Ser Gln Lys Ser Lys Asp Phe Gln Ser Phe Ser
1               5                   10                  15
Ala Pro Leu Leu Asn Ile His Asp Ser His Val Thr Ala Pro Phe Phe
            20                  25                  30
Gly Pro Asn Gln Trp Ile Ala Leu Val Gln Pro Val Ser Gly Gly Gly
        35                  40                  45
Ile Pro Pro Ser Leu Pro Ala Val Gln Leu Lys Val Thr Phe Lys Glu
    50                  55                  60
Gly Gly Ala Phe Asp Phe His Asn Asn Phe Glu Arg Leu Lys Glu Arg
65                  70                  75                  80
Met Gln Gln Ala Leu Glu Leu Ser Gln Glu Asp Gly Arg Arg Ser Gly
                85                  90                  95
Asn Val Asp Leu Ser Thr Ile His Leu Glu Glu Leu Pro Ala Tyr Thr
            100                 105                 110
Gly Pro Gln Gly Asp Met Ala Gly Val His Ser His Gly Gln Asp Leu
        115                 120                 125
Ser Pro Asp Pro Tyr Ser Arg Gln Asp Gly Ala Gly Thr Glu Thr Glu
    130                 135                 140
Pro Leu Asp Pro Pro Pro Gly Tyr Glu Glu Val Gln Gln Gln Ser Val
145                 150                 155                 160
Ala Asn Glu Leu Glu Glu Arg Leu Arg Arg Gly Ser
                165                 170
```

<210> 25231
<211> 93
<212> PRT
<213> A.fumigatus

<400> 25231
Tyr Phe His Thr Val Arg Met Gly Leu Ala Asp Phe Phe Ser Asp Met
1 5 10 15
Ile Ser Ser Leu Ser Phe Pro Glu Ala Gln Ala Glu Ala Pro Ala Glu
20 25 30
Thr Val Glu Gln Thr Ser Gln Glu Ala Glu Thr Glu Asn Lys Pro Asp
35 40 45
Val Ser Glu Glu Lys Thr Glu Glu Ser Thr Glu Glu Ser Gly Glu Glu
50 55 60
Thr Pro Ala Glu Glu Ser Ser Glu Glu Ser Gln Glu Glu Pro Glu Glu
65 70 75 80
Glu Glu Pro Glu Glu Glu Glu Glu Ala Glu Glu Glu Leu
85 90

<210> 25232
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25232
Ala Ser Met Asn Arg Pro Ala Arg Met Asn Asn Val Arg Asn Thr Thr
1 5 10 15
Glu Ser Lys Tyr Val Val Leu Trp Leu Leu Val Asp Glu Phe Ala Ala
20 25 30
Ala Ser Met Met Arg Thr Ala Asn Glu Asp Thr Tyr Ala Thr Val Val
35 40 45
Pro Ala Glu Met Arg Arg Phe Met Leu Pro Lys Arg
50 55 60

<210> 25233
<211> 502
<212> PRT
<213> A.fumigatus

<400> 25233
Pro Val Val Pro Ala Arg Arg Pro Leu Pro Glu Gly Leu Glu Glu Met
1 5 10 15
Pro Phe Val Thr Glu Val Ser Val Asn Leu Leu Ala His Ser Gly Arg
20 25 30
Val Gln Phe Val Gly Arg Glu Asn Val Asp Ala Ile Leu Glu Lys Ile
35 40 45
Asp Asp Leu Gly Tyr Glu Ala Ser Leu Asp Asn Ile Gln Pro Val Val
50 55 60
Val Asn Asn Glu Glu Gly Lys Asn Gln Lys Arg Thr Val Ser Val Arg
65 70 75 80
Val Asp Gly Met Phe Cys His His Cys Pro Glu Arg Val Leu Asp Ser
85 90 95
Leu Lys Ala Phe Pro Asp Val Glu Cys Glu Arg Thr Leu Ser Leu Asn
100 105 110
Asn Asn Val Leu Lys Val Thr Tyr Thr Pro Asp Pro Pro Ser Leu Thr
115 120 125
Ile Arg Ala Ile Ile Gln Thr Ile Glu Ser Ala His Asp Ala Phe Gln
130 135 140
Ala Ser Val Phe His Pro Pro Ser Leu Glu Asp Arg Ser Arg Ala Met
145 150 155 160
Gln Leu His Glu Arg Arg Arg Leu Leu Met Arg Leu Thr Phe Val Leu

```
                165                 170                 175
Leu Val Ala Ile Pro Thr Phe Leu Ile Gly Ile Val Phe Met Ser Leu
            180                 185                 190
Val Ser Ser Asn Asn Gly Val Arg Lys Tyr Leu Glu Gln Pro Met Trp
        195                 200                 205
Ala Gly Ser Val Ser Arg Met Glu Trp Ala Leu Phe Ile Met Thr Thr
    210                 215                 220
Pro Val Met Phe Tyr Gly Thr Asp Ile Phe His Ile Arg Ala Met Lys
225                 230                 235                 240
Glu Ile Tyr Ser Leu Trp Arg Pro Arg Ser Arg Thr Pro Phe Val Arg
                245                 250                 255
Arg Phe Tyr Arg Phe Gly Ser Met Asn Leu Leu Ile Ser Ala Gly Thr
            260                 265                 270
Thr Val Ala Tyr Val Ser Ser Leu Ala Val Leu Ile Met Asp Ala Ala
        275                 280                 285
Ala Asn Ser Ser Thr Ser Ser His Ser Thr Thr Tyr Phe Asp Ser Val
    290                 295                 300
Val Phe Leu Thr Leu Phe Ile Leu Ala Gly Arg Phe Met Glu Ala Tyr
305                 310                 315                 320
Ser Lys Ala Arg Thr Gly Asp Ala Val Ala Ser Leu Gly Lys Leu Arg
                325                 330                 335
Pro Ser Glu Ala Leu Leu Val Glu Lys Ser Thr Pro Ile Asp Gln Thr
            340                 345                 350
Glu Phe Gly Lys Ser Phe Ser Tyr Glu Asn Gln Gln Arg Ile Ala Val
        355                 360                 365
Asp Leu Leu Glu Ile Gly Asp Val Val Ser Ile Pro His Gly Ala Ser
    370                 375                 380
Pro Pro Ala Asp Gly Val Ile Ile Gly Pro Asn Thr Tyr Gln Phe Asp
385                 390                 395                 400
Glu Ser Ser Leu Thr Gly Glu Ser Arg Trp Val Arg Lys Ser Ala Gly
                405                 410                 415
Asp Gln Val Phe Thr Gly Ser Val Asn Val Gly Gln Pro Val Lys Ile
            420                 425                 430
Lys Ile Thr Ala Leu Gly Gly Ser Ser Met Leu Asp Gln Ile Ile Asn
        435                 440                 445
Val Val Arg Glu Gly Gln Ser Arg Arg Ala Pro Leu Glu Arg Val Ala
    450                 455                 460
Asp Val Leu Thr Ser His Phe Val Pro Val Ile Thr Leu Ile Ala Ile
465                 470                 475                 480
Leu Thr Phe Leu Ile Trp Leu Ser Leu Gly Ser Ser Pro Arg Gly Trp
                485                 490                 495
Lys Val His Ser Ser His
            500
```

<210> 25234
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25234

```
Val Asp Phe Ser Ser Phe Leu Leu Pro Ile Thr Leu Leu Trp Asn Ile
1               5                   10                  15
Pro Ile Val Thr Glu Asn Ala Ser Gly Val Asn His Gly Ser Gln Tyr
            20                  25                  30
Glu His His Asp Val Leu Phe Ser Gly Leu Phe Tyr Phe Lys Ser Tyr
        35                  40                  45
```

```
Tyr Pro Ile Asp Cys Met Ile Thr Gly Ile Leu Gln Asn Cys Pro Pro
    50                  55                  60
Phe His Leu Pro Cys Ser
65                  70
```

<210> 25235
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (15),(28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25235

```
Glu Leu Ala Leu Gly Gly Asp Leu Gly Phe Gln Phe Val Asn Xaa Gly
1               5                   10                  15
Phe Lys Tyr Cys Ser Phe Tyr Asp Arg Gly Tyr Xaa Ser Leu Gly Ala
            20                  25                  30
Ile Ser Asp Thr His Pro Asn Pro Lys Leu Arg Val Glu His Ser Ala
        35                  40                  45
Asp Pro Gly Gln Gly Val Ala Asp Gly Thr Gln Ser Gln His Tyr Arg
    50                  55                  60
Pro Ala Tyr Glu Leu Thr Glu Asp Gln Glu Glu Arg Leu Gly Arg Ser
65                  70                  75                  80
Lys
```

<210> 25236
<211> 107
<212> PRT
<213> A.fumigatus

<400> 25236

```
Ala Leu Phe Phe Met Arg Asn Ala Asn Ile Leu Lys Thr Asp Ile Thr
1               5                   10                  15
Asp Pro Gln Arg His Phe Glu Met Val Ala Pro Ala Arg Ala Leu His
            20                  25                  30
Glu Pro Val Leu Arg Ala Ala Ile Leu Ala Phe Ser Ser Arg His Ile
        35                  40                  45
Asn Arg Gln Lys Gln Asp Gly Asp Thr Glu Ser Leu Lys Tyr His Asn
    50                  55                  60
Glu Cys Leu Glu Leu Leu Ile Pro Thr Leu Ser Cys Asp Glu Asn Glu
65                  70                  75                  80
Ile Ser Glu Glu Leu Leu Ala Ala Ile Ala Ile Leu Arg Gln Asn Glu
                85                  90                  95
Glu Met Asp Arg Lys Phe Ser Lys Val Val Ser
            100                 105
```

<210> 25237
<211> 90
<212> PRT
<213> A.fumigatus

<400> 25237

```
Arg Arg Ala Ile Ile Ser Asn Ile Asn Val Asn Asn Gly Arg Ser Gly
1               5                  10                  15
Ile Asp Leu Asn Ser Val Leu Thr Ser Ile His Thr Phe Asp Pro Ala
            20                  25                  30
Ala Gly Cys Asp Asp Ser Thr Phe Gln Pro Cys Ser Ser Lys Ala Leu
        35                  40                  45
Ala Asn His Lys Val Tyr Val Asp Ser Phe Arg Ser Ile Tyr Gly Ile
    50                  55                  60
Asn Ala Gly Leu Gly Pro Gly Lys Ala Ala Asn Val Gly Arg Tyr Ala
65                  70                  75                  80
Glu Asp Val Tyr Gln Gly Gly Asn Pro Trp
                85                  90
```

<210> 25238
<211> 264
<212> PRT
<213> A.fumigatus

<400> 25238

```
Arg Tyr Leu Ala Thr Leu Ala Ala Ala Glu Gln Leu Tyr Asp Ala Leu
1               5                  10                  15
Tyr Gln Trp Lys Lys Gln Gly Tyr Leu Thr Val Thr Gln Thr Ser Leu
            20                  25                  30
Ala Phe Phe Arg Asp Phe Ser Ser Thr Val Glu Pro Gly Thr Tyr Lys
        35                  40                  45
Ser Asn Thr Pro Thr Tyr Lys Ser Leu Thr Asp Tyr Val Arg Thr Tyr
    50                  55                  60
Ala Asp Asp Phe Phe Phe Leu Val Glu Lys Tyr Thr Pro Ser Asn Gly
65                  70                  75                  80
Ser Leu Ala Glu Gln Tyr Asp Arg Asn Thr Gly Val Pro Leu Ser Ala
                85                  90                  95
Asn Asp Leu Thr Trp Ser Tyr Ala Ala Phe Leu Ser Thr Leu Gln Arg
            100                 105                 110
Arg Leu Asn Ile Met Pro Asp Ser Trp Gly Pro Ser Ser Ala Asn Pro
        115                 120                 125
Val Pro Thr Thr Cys Ser Lys Thr Thr Ile Thr Gly Thr Tyr Ser Ala
    130                 135                 140
Val Ala Pro Pro Phe Pro Thr Ser Thr Ala Gln Cys Val Ala Ala Val
145                 150                 155                 160
Thr Val Pro Val Thr Phe Trp Leu Ile Glu Asn Thr Tyr Tyr Gly Glu
                165                 170                 175
Asn Val Tyr Met Thr Gly Asn Val Ser Ala Leu Gly Asp Trp Asn Ala
            180                 185                 190
Ser Ala Gly Tyr Ser Leu Asn Ala Gly Leu Tyr Thr Ser Asp Glu Asn
        195                 200                 205
Leu Trp Phe Ala Thr Val Lys Gly Leu Glu Pro Gly Val Thr Met Glu
    210                 215                 220
Tyr Met Phe Tyr Lys Ile Glu Pro Gly Asn Ser Val Thr Phe Glu Gly
225                 230                 235                 240
Gly Glu Asn Arg Val Tyr Ala Val Pro Thr Ala Cys Pro Val Ala Pro
                245                 250                 255
Gln Val His Ala Val Trp Gln Thr
            260
```

<210> 25239
<211> 312

<212> PRT
<213> A.fumigatus

<400> 25239
Gln Thr Asn Ser Gly Trp Ser Val Arg Ala Ser Pro Ala Ile Ser Arg
1 5 10 15
Ala Asp Ser Ser Thr Ile Pro Pro Ser Pro Ala Arg Thr Ile Phe Glu
20 25 30
Glu Arg Leu Ser Glu Ser Gly Thr Gln Pro Ile Asp Ile Ala Lys Ala
35 40 45
Asn Ser Gln Ser Gln Asp Asp Ser Glu Ala Pro Gln Ala Thr Thr Pro
50 55 60
Leu Leu Pro Pro Phe Met Gly Asp Glu Pro Leu Ser Val Thr Ala Ser
65 70 75 80
Arg Val Gln Ser Pro Leu Gln Ser Pro Ser Val Ala Asp Val Ser Glu
85 90 95
Glu Ser Leu Asp Lys Gly Met Met Ser Ser Asp Pro Arg Leu Ala Gly
100 105 110
Met Pro Ser Pro Pro Leu Ser Thr Lys Pro Ser Val Ala Ser Phe Asn
115 120 125
Arg Pro Arg Ala Ser Thr Met Arg Thr Leu Ser Gly Glu Gly Pro Ser
130 135 140
Phe Ala Leu Thr Asp Pro Asn Asp Glu Trp Ala Thr Gln Leu Gly His
145 150 155 160
Ala Asn Phe Thr Ile Gln Pro Glu Pro Tyr Val Pro Glu Val Tyr Asp
165 170 175
Leu Ser Ser Phe Arg Gln Leu Arg Glu His Trp Asp Gln Ala Gln Cys
180 185 190
Asn Phe Thr Lys His Leu Val Arg Thr Gly Glu His Tyr Gly Val Thr
195 200 205
Ser Thr Ile Tyr Lys Leu Thr Glu Ala Lys Trp Asp Ala Ile Asn Ser
210 215 220
Glu Trp Lys Arg Thr Tyr Asp Glu Met Leu Ser Gln Leu Asp Ala Thr
225 230 235 240
Asp Gly Ser Leu Met Gly Ile Ile Gln Ser Gln Gly Asn Pro Cys Glu
245 250 255
Pro Val Lys Ile Pro Arg Leu His Asp Glu Lys Phe Pro Glu Leu Gly
260 265 270
Asp Gly Glu Ile Val Gly Pro Met Lys Ile Ala Pro Ala Ala Asn Met
275 280 285
Pro Ala Arg Cys Arg Ser Arg Ser Leu Lys Arg Ser Phe Phe Lys Phe
290 295 300
Phe Gln Asp Leu Ile Ser Arg Ser
305 310

<210> 25240
<211> 159
<212> PRT
<213> A.fumigatus

<400> 25240
Pro His Ser Thr Pro Gln Thr Asp Gly Ser Tyr Cys Val Pro Thr Val
1 5 10 15
Asn Met Trp Thr Thr Thr Ser Gly Leu Ser Gly Arg Ser Leu Arg Leu
20 25 30
Ser Ile Thr Phe Ala Ala Val Val Gly Phe Ser Leu Phe Gly Tyr Asn

```
        35                  40                  45
Gln Gly Met Met Ala Gly Leu Leu Asn Gly Asp Glu Phe Val Asn Ser
    50                  55                  60
Phe Pro Ile Leu Lys Met Pro Asp Asn Pro Thr Ala Gly Glu Lys His
65                  70                  75                  80
Tyr Ile Asp Val Ile Arg Gly Ala Val Thr Ser Cys Tyr Glu Leu Gly
                85                  90                  95
Cys Phe Phe Gly Ala Leu Phe Ser Met Phe Cys Gly Asn Arg Leu Gly
            100                 105                 110
Arg Thr Arg Leu Ile Phe Met Gly Ala Ser Ile Leu Ile Val Gly Ala
        115                 120                 125
Leu Leu Thr Thr Val Cys Tyr Thr Gly Lys Trp Glu Val Gly Gln Phe
    130                 135                 140
Val Ile Gly Arg Val Val Ser Gly Ile Gly Asn Gly Met Asn Thr
145                 150                 155
```

<210> 25241
<211> 141
<212> PRT
<213> A.fumigatus

```
<400> 25241
Thr Ala Lys Asp Val Asn Gly Lys Thr Thr Phe Gln Ile His Thr Asn
1               5                   10                  15
Val Val Phe Pro Pro Val Leu Tyr Pro Pro Thr Gln Gln His Asn Pro
            20                  25                  30
Pro Val Pro Thr Pro Glu Trp Ser Ser Leu Ile Gln Ser Trp Cys Arg
        35                  40                  45
His His Arg Ile Tyr Arg Leu Ser Leu Ile Glu Ala Ile Glu Ser Pro
    50                  55                  60
Leu Phe His Asn Gly Thr Leu Arg Thr Arg Leu Ser Met Ser Glu Ala
65                  70                  75                  80
Arg Ala Val Leu Asp Trp Met Ala Lys Pro Glu Glu Glu Gly Gly Gly
                85                  90                  95
Gly Arg Arg Ala Glu Trp Ile Asp Gly Gly Ser Lys Ser Val Ala Trp
            100                 105                 110
Ile Trp Trp Arg Arg Pro Glu Glu Trp Ala Gly Ile Val Ala Asp Trp
        115                 120                 125
Val Cys Thr Ser Phe Ser Ser Ala Cys Trp Leu Ala Cys
    130                 135                 140
```

<210> 25242
<211> 112
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25242
Ser Phe Asp Ala Cys Ser Met Tyr Val Asp Val Ile Xaa His Leu Ala
1               5                   10                  15
Arg Met Phe Asp Val Val Leu Met Phe Ser Ser Leu Ile Ala Arg Met
            20                  25                  30
```

```
Leu Gln Leu Ser Ser Val Val Cys Met Leu Phe Ser Met His Leu Phe
        35                  40                  45
His Arg Val Ile Ser Thr Ile Cys Leu Ile Ile Ile Leu Ile Phe Met
    50                  55                  60
Glu Leu Thr Lys Pro Ser Ser Asp Val Val Lys Val Phe Tyr Thr Ile
65                  70                  75                  80
Ala Tyr Glu Ala Leu Tyr Arg Gly Ser Tyr Pro Ile Tyr Val Ser Thr
                85                  90                  95
Ile Tyr Cys Ser Ser Leu Arg Val Ala Leu Met Thr Met Asp Ile Tyr
            100                 105                 110
```

<210> 25243
<211> 157
<212> PRT
<213> A.fumigatus

<400> 25243

```
Leu Ala Ser Thr Phe Glu Ala His Gly Gly Glu Thr Val Ile Tyr Glu
1               5                   10                  15
Pro Pro Ala Asp Phe Pro Pro Leu Thr Glu Gly Phe Thr His Leu Ile
            20                  25                  30
Ser Asn Thr Val Asp Phe Pro Ala Phe Asp Ala Ala Asn Asp Ala Leu
        35                  40                  45
Ile Pro Val Val Lys Pro Gln Trp Val Gln Ala Ser Leu Ala Lys Lys
    50                  55                  60
Lys Leu Ala Asn Pro Arg Gln Tyr Asn Pro Asp Pro Arg Leu Phe Leu
65                  70                  75                  80
Asn Asp Val Val Val Met Cys Gly Asp Ile Pro Glu Gly Asp Lys Asp
                85                  90                  95
Ala Ile Ile Gly Gly Val Leu Ala Lys Gly Gly Leu Tyr Ser Pro Arg
            100                 105                 110
Val Ser Gly Met Val Thr His Leu Val Asp Leu Thr Met Asp Ser Asp
        115                 120                 125
Lys Ala Arg Ile Val Thr Ser Arg Lys Leu Asn Ile Lys Ile Val Leu
    130                 135                 140
Pro His Trp Tyr Asp Cys Asp Tyr Pro Thr Ile Phe Asp
145                 150                 155
```

<210> 25244
<211> 203
<212> PRT
<213> A.fumigatus

<400> 25244

```
Ala Ser Gly Pro Gly Val Thr Thr Met Arg Gly His Trp Gly Leu Gln
1               5                   10                  15
Ser Pro Tyr Val Phe Pro Thr Asn Ser Thr Thr Val Arg Asn His Leu
            20                  25                  30
Gln Asp Thr Leu Thr Val Gln Thr Arg Pro Met Leu Ile Leu Gly Ser
        35                  40                  45
Ile Ile Asp Asp Pro Arg Asn Ser His Leu Ile Arg Trp Ser Asp Lys
    50                  55                  60
Gly Asp Ser Phe Ile Ile Pro Asp Arg Asn Lys Phe Ala Arg Thr Leu
65                  70                  75                  80
Leu Pro Thr Ile Tyr Gly His Gly Asn Phe Arg Ala Phe Cys Arg Leu
                85                  90                  95
```

```
Leu Trp Tyr Tyr Lys Leu Asp Leu Lys Lys Gln Ser Ser Pro Trp Arg
            100                 105                 110
Ser Trp Gln Arg Thr Pro Phe Arg Glu Phe Ser Asn Pro Asn Phe Arg
        115                 120                 125
Arg Asp Asp Asp Ala Gly Phe Leu Arg Ile Glu Gly Arg Arg Lys Lys
    130                 135                 140
Thr Lys Glu Ser Ser Asn Pro Val Ser Arg Ser Ser Val Ser Asp Pro
145                 150                 155                 160
Phe Ser Arg Ser Gly Gly Glu Ser Ser Met Asp Glu Asp His Val Ala
                165                 170                 175
Ser Asp Met Trp Arg Gly Gly Lys Ala Cys Glu Ser Val Arg Gly Ser
            180                 185                 190
Tyr Thr Arg Tyr Pro Lys Arg Arg Arg Val Ser
        195                 200
```

<210> 25245
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25245

```
Gly Ser Glu Cys Ile Leu Pro Leu Asn Gly Val Gly Leu Leu Thr Val
1               5                   10                  15
Cys Glu Val Gly Ile Thr Arg His Thr Gln Arg Gly His Ile Ala Arg
            20                  25                  30
Ala Thr Met Glu Ala Ala Cys Phe Gln Thr Lys Ala Ile Leu Asp Ala
        35                  40                  45
Met Ala Lys Asp Ser Gly His Lys Leu Ser Glu Leu Ala Val Asp Gly
    50                  55                  60
Gly Met Ser Asn Ser Asp Ile Cys Met Gln Val Arg Leu Arg Lys Lys
65                  70                  75                  80
Ala Ser Ser Pro Leu His Gly Tyr Gln
                85
```

<210> 25246
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25246

```
Thr Gln Ala Asp Ile Ile Gln Ile Pro Val Glu Arg Pro Ala Met His
1               5                   10                  15
Glu Thr Thr Ala Leu Gly Ala Ala Ile Ala Ala Gly Phe Ala Ile Asp
            20                  25                  30
Val Trp Lys Glu Phe Ser Glu Leu Lys Asn Met Asn Arg Ala Asn Arg
        35                  40                  45
Thr Thr Phe Thr Pro Arg Ile Ser Pro Ala Gln Ser Ala Arg Met Tyr
    50                  55                  60
Lys Gln Trp Ser Lys Ala Val Glu Met Ser Arg Gly Trp Leu Asp Thr
65                  70                  75                  80
Ser Glu Ile Glu Ser Glu Asp Gln Gln
                85
```

<210> 25247
<211> 70
<212> PRT

<213> A.fumigatus

<400> 25247

```
Gln Pro Asp Phe Lys Met Ala Phe Leu Gln Ala Gln Val Gln Asn Pro
1               5                  10                  15
Asn Phe Thr Thr Ser Leu Ile Thr Asp Glu His Val Ile Ser Met Tyr
            20                  25                  30
Met Gln Tyr Ser Thr Leu Ile Ala His Ser Tyr Thr Asp Met Pro Lys
        35                  40                  45
Pro Tyr Met Gln Gln Leu Leu Phe Trp Asp Phe Ile Phe Glu Gly Gly
    50                  55                  60
Glu Ala Thr Lys Asn Ser
65                  70
```

<210> 25248
<211> 257
<212> PRT
<213> A.fumigatus

<400> 25248

```
Pro Asn Thr Asp Phe Cys Val Arg Glu Glu His Glu Asp Thr Leu Leu
1               5                  10                  15
His Glu Thr Leu Leu Cys Leu Lys Ala Leu Cys Thr Thr Ser Val Ala
            20                  25                  30
Leu Lys His Leu Thr Lys Ile Glu Ala Glu Leu Phe Pro Ala Leu Leu
        35                  40                  45
Lys Met Leu Phe Asp Glu Glu Lys Lys Gly Pro Ser Glu Tyr Thr Thr
    50                  55                  60
Arg Gly Ile Ile Met Asn Leu Leu Phe Thr Gln Leu Ala Thr Ala Ser
65                  70                  75                  80
Ser Asp Glu Met Ala Thr Ala Cys Ala Ser Arg Ile Leu Ser Tyr Leu
                85                  90                  95
Gln Asp Pro Ser Pro Pro Glu Glu Ser Gln Pro Leu Ser Phe Ile Ala
            100                 105                 110
Asn Ile Tyr Gln Ser Arg Pro Tyr Arg Val Trp Cys Lys Glu Val Ser
        115                 120                 125
Asn Val Thr Lys Glu Val Phe Trp Ile Phe Leu His His Leu Asn Val
    130                 135                 140
Ile Pro Ile Val Lys Ser Asp Lys Ser Pro Ser Glu Leu Glu Gln Gln
145                 150                 155                 160
Thr Phe Arg Glu Arg His Phe Pro Ala Pro Arg Pro Pro Val Pro Ala
                165                 170                 175
Ala Pro Tyr Val Gly Gly Val Glu Trp Asp Ala Thr Asn Tyr Leu Ala
            180                 185                 190
Ala His Leu Asp Leu Met Asn Gly Leu Ile Ala Cys Leu Pro Ser Val
        195                 200                 205
Glu Glu Arg Asn Asn Leu Arg Ser Glu Leu Arg Ala Ser Gly Phe Glu
    210                 215                 220
Lys Val Met Gly Gly Ser Leu Arg Thr Cys Lys Glu Lys Phe Tyr Ser
225                 230                 235                 240
Ser Val His Asp Cys Leu Arg Thr Trp Thr Ala Ala Ala Val Glu Asp
                245                 250                 255
Gly
```

<210> 25249

<211> 91
<212> PRT
<213> A.fumigatus

<400> 25249
Thr Val Ser Leu Ser Ala Thr Ala Ser Arg Asp Thr Ala Ala Asp Pro
1 5 10 15
Ser Asp Phe Val His Tyr Leu Arg Glu Ile Gln Lys Pro Glu Met Ile
20 25 30
Glu Ile Gly Lys Ile His Lys Leu Arg Ile Leu Leu Arg Asn Glu Thr
35 40 45
Val Ser Trp Val Asp Thr Phe Ile Ala Asp Gly Gly Met Asp Glu Ile
50 55 60
Val Gln Leu Leu Tyr Arg Ile Met Lys Val Glu Trp Arg Tyr Val His
65 70 75 80
Ala Val Arg Thr Asp Val Leu Met Thr Lys Tyr
85 90

<210> 25250
<211> 90
<212> PRT
<213> A.fumigatus

<400> 25250
Asp Val Gly Ser Trp Arg Arg Arg Cys Trp His Ile Ala Ser Leu Glu
1 5 10 15
Thr Val Tyr Tyr Asp Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr
20 25 30
Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr Tyr
35 40 45
Tyr Tyr Tyr Tyr Tyr Tyr Tyr Ser Cys Cys Cys Cys Cys Pro Thr Ala
50 55 60
Thr His Thr Thr Leu Ser Leu Cys Arg Gly Asn Ile Tyr Glu Ile Thr
65 70 75 80
Asp Ala Met Cys Met Pro Phe Ser Ser Leu
85 90

<210> 25251
<211> 358
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (165),(185),(186)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25251
Leu Glu Ile Ser Leu Pro Leu Leu Leu Thr Ser Pro Leu Glu Met Arg
1 5 10 15
Pro Arg His Arg Glu Glu Phe Glu Ile Ala Ile Phe Cys Ser Leu Pro
20 25 30
Cys Glu Ala Glu Ala Ile Glu Ala Leu Leu Asp Glu Val Tyr Asp Arg
35 40 45
Phe Gly Lys Ile Tyr Asp Lys Glu Pro Glu Asp Arg Asn Val Tyr Ile
50 55 60

```
Asn Gly Arg Ile Gly Lys His Asn Val Val Leu Cys Gln Val Pro Glu
65                  70                  75                  80
Ser Gly Lys Cys Ser Ser Ala Ser Val Ala Ser Ser Leu Thr Phe Ser
                85                  90                  95
Tyr Thr Gly Ile Gln Leu Ala Leu Val Val Gly Ile Cys Ser Gly Val
            100                 105                 110
Pro Ser Pro Ser Cys Ser Glu Arg Glu Ile Phe Leu Gly Asp Ile Val
        115                 120                 125
Ile Ala Asp Ser Val Ile Glu Phe Asp Val Gly Glu Gln Cys Pro Trp
    130                 135                 140
Gly Phe Gln Arg Glu Thr Ser Val Glu Ala Ala His Glu Arg Pro Val
145                 150                 155                 160
Leu Glu Arg Pro Xaa Arg Ala Ile Arg Asn Leu Leu Asn Ala Leu Ser
                165                 170                 175
Ile His Gly Asn Arg Ala Leu Met Xaa Xaa Glu Ser Ala Gly Phe Leu
            180                 185                 190
Lys Ser Tyr Ser Pro Glu Glu Val Gln Ser Gly Ser Ile Pro Glu His
        195                 200                 205
Arg Lys Ile Ser Phe Ser Arg Leu His Ile Asp Thr Ser Ile Ala Glu
    210                 215                 220
Ile Leu Phe Ala Phe His Asp Glu Tyr Glu Asp Thr Leu Cys Lys Gly
225                 230                 235                 240
Ala Leu Glu Glu Glu Cys Tyr Ile Ser Ala Cys Ala Glu Glu Gln Val
                245                 250                 255
Cys Arg Arg Ser Ser Ser Asp Glu Ser Val Lys Pro Ala Leu His Val
            260                 265                 270
Gly Met Ile Ala Ser Gly Asp Thr Val Met Glu Ser Ala Glu His Arg
        275                 280                 285
Asp Met Ile Ala Glu Thr Glu Gly Val Ile Ala Phe Glu Thr Ile Gly
    290                 295                 300
Ala Gly Met Trp Asp Thr Leu Pro Cys Val Ile Ile Asn Gly Val Ser
305                 310                 315                 320
Asp Tyr Ala Asp Gly Arg Lys Asn Glu Gly Trp Gln Asn Tyr Ala Ala
                325                 330                 335
Ala Val Ala Ala Ser Gly Ala Lys Ala Phe Leu Gln Tyr Trp Ala Pro
            340                 345                 350
Cys Ala Lys Ala Ser Glu
        355
```

<210> 25252
<211> 146
<212> PRT
<213> A.fumigatus

<400> 25252

```
His Ile Leu Arg Ile Ser Thr Gln Thr Ile Gln Leu Cys Leu Phe Thr
1               5                   10                  15
Lys Thr Trp Ser Phe Ala Asn Tyr Pro Ser Ser Gly Leu Lys Asp Ile
            20                  25                  30
Thr Phe Pro Ile Ser Met Ala Asp Thr Pro His Glu Thr Gly Tyr Tyr
        35                  40                  45
Phe Ala Gln Gln Phe Thr Phe Thr Gly Val Phe Asp Val Gly His Ile
    50                  55                  60
Gly Leu Gln Pro Arg Ser Asp Ala Ser Gly Ser Ser Ile Val His Ala
65                  70                  75                  80
Val Phe Ser Ser Phe Val Ser Gly Thr Thr Ser Thr Asp Pro Asn Cys
```

```
                85                  90                  95
His Asp Gly Ala Asp Gly Gly Ala Asp Val Ser Cys Ala Val Glu Ile
            100                 105                 110
Pro Ala Pro Tyr Ala Pro Leu Tyr Asp Leu Val Val Gln Asn Ser Ala
        115                 120                 125
Gly Thr Thr Cys Leu His Pro Ser Gly Met Asp Arg Ala Arg Leu Ser
    130                 135                 140
Gln Pro
145
```

<210> 25253
<211> 130
<212> PRT
<213> A.fumigatus

<400> 25253

```
Pro Ala Gly Gly Thr Ile Gly Thr Gly Leu Phe Ile Ser Ser Gly Thr
1               5                   10                  15
Ala Ile Ala His Ala Gly Pro Val Gly Ala Leu Ile Ala Tyr Ile Phe
            20                  25                  30
Val Gly Thr Ile Val Tyr Ser Val Met Thr Ser Leu Gly Glu Val Ala
        35                  40                  45
Thr Tyr Ile Pro Thr Ala Gly Ala Phe Thr Ser Tyr Thr Thr Arg Leu
    50                  55                  60
Val Asp Pro Ser Leu Gly Phe Ala Met Gly Trp Ile Tyr Trp Phe Asn
65                  70                  75                  80
Trp Gly Phe Arg Leu Arg Gly Gly Ile Asp Gly Leu Arg Asp Asp His
                85                  90                  95
Pro Leu Leu Gly Thr Arg Asn Trp Ser Ile Ala Ile Phe Leu Arg Gly
            100                 105                 110
Val Arg Val Phe Thr Thr Pro Ile Asn Phe Arg Pro Val Gly Phe Tyr
        115                 120                 125
Trp Glu
    130
```

<210> 25254
<211> 178
<212> PRT
<213> A.fumigatus

<400> 25254

```
Ser Glu Ala Pro Val Glu Pro Val Asp Pro Ser His Gly Lys Ser Gln
1               5                   10                  15
Thr Gly Ile Asp Gln Ser Cys Cys Ile Arg Gly Glu Gly Ala Arg Gly
            20                  25                  30
Gly Asp Val Arg Arg Asn Phe Ser Gln Arg Gly His His Arg Val Asp
        35                  40                  45
Asp Arg Pro Asp Lys Asp Val Cys Asp Gln Ser Pro Asp Trp Thr Ser
    50                  55                  60
Val Arg Asp Gly Arg Ser Thr Ala Asp Lys Gln Thr Gly Ser Asn Cys
65                  70                  75                  80
Ser Ser Cys Arg Leu Leu Asp Phe Phe Phe Leu Leu Phe Pro Leu Leu
                85                  90                  95
Arg Lys Arg Ser Asp Thr Asp Arg Trp Gln Ser Ser Ala Ser Val Tyr
            100                 105                 110
Pro Ser Thr Ala Ala Ser Asp Arg Ala Ser Pro Thr Pro Val Pro Pro
```

```
        115                 120                 125
His Cys Ser Pro His Arg Cys Asp Gly Arg Leu Ala Ala Ser Leu Pro
    130                 135                 140
Cys Ser Ser Glu Thr Glu Pro Cys Leu Leu Ile Ser Asp Ala Phe Gln
145                 150                 155                 160
Arg Trp Ile Pro Pro Asp Pro Trp His Leu Arg Ser Asp Cys Leu Glu
                165                 170                 175
Gln Pro
```

<210> 25255
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25255

```
Lys Pro Ser Val Leu Tyr Leu Ile Tyr Arg Ser Ser Leu Ser Leu Val
1               5                   10                  15
Ala Leu Pro Ser Gly Phe Lys Gly Cys Leu Thr Arg Asp Gly Trp Arg
            20                  25                  30
Met Ile Lys Ala Phe Gly Thr Ser Pro Cys Tyr Phe Asp Gly Arg Asp
        35                  40                  45
Glu Gly Ile Ser Asp Thr Lys Tyr Ile Thr Trp Trp Cys Leu Leu Leu
    50                  55                  60
His Gly Leu Ser Ile
65
```

<210> 25256
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25256

```
Asp Asp Gly Phe Tyr Ser Val His Gln Thr Leu Pro Thr Leu Leu Asn
1               5                   10                  15
Val Glu Trp Gln His Asn Asn Thr Val Glu Asn Ser Val His Ala Tyr
            20                  25                  30
Ser Lys Pro Tyr Pro Val Cys Asn Asn Gly Asp Phe Glu Phe Lys His
        35                  40                  45
Glu Gln Ala Tyr Leu Asp Glu Gly Gln Asn Phe Trp
    50                  55                  60
```

<210> 25257
<211> 292
<212> PRT
<213> A.fumigatus

<400> 25257

```
Leu Ser Cys Tyr Leu Glu His Gly Ala Asp Val Asn Ala Arg Ser Ala
1               5                   10                  15
Phe Lys Gly Trp Thr Ala Phe Phe Glu Ala Ala Ser Asn Gly His Lys
            20                  25                  30
Ala Val Val Gln Leu Leu Phe Asp Cys Gly Ala Asp Val Thr Met Lys
        35                  40                  45
Asp Glu Asp Gly Trp Thr Pro Leu Cys Gln Ala Ala Ser Arg Gly His
    50                  55                  60
```

```
Glu Ala Val Ala Gly Leu Leu Val Ser His Gly Ala Asp Ile Asn Ala
65                  70                  75                  80
Arg Asp Gly Asn Gly Arg Thr Ala Leu Tyr Arg Ala Ala Ser Asp Gly
                85                  90                  95
Tyr Glu Ala Val Val Cys Leu Leu Leu Asp His Gly Ala Asp Ile Asn
            100                 105                 110
Ala Arg Gly Lys Tyr Lys Gly Arg Thr Ala Leu Phe Glu Ala Ala Ser
        115                 120                 125
Asn Gly His Glu Ala Val Val His Leu Leu Leu Asp Arg Gly Ala Asp
    130                 135                 140
Val Asn Met Lys Asp Glu Asp Gly Arg Thr Pro Leu Tyr Gln Ala Ala
145                 150                 155                 160
Ser Arg Gly His Glu Ala Val Ala Gly Leu Leu Val Gly His Gly Ala
                165                 170                 175
Asp Ile Asn Ala Arg Asp Asn Asp Gly Gln Thr Ala Leu Phe Arg Ala
            180                 185                 190
Ser Ser Asn Gly Asp Glu Ala Val Val Gln Leu Leu Val Asn Arg Lys
        195                 200                 205
Ala Asn Val Asn Val Ala Asp Tyr Phe Arg Gly Met Thr Pro Leu Ser
    210                 215                 220
Gln Ala Ala Ser Arg Gly His Glu Gly Val Val Ser Leu Leu Leu Asp
225                 230                 235                 240
His Gly Ala Asp Ile Asn Ala Lys Asp Ser Gly Glu Trp Thr Ala Leu
                245                 250                 255
Asp Val Ala Ala Phe Lys Gly His Glu Glu Val Val Arg Leu Leu Arg
            260                 265                 270
Phe Pro Gln Lys Phe Gly Val Ser Phe Lys Phe His Gln Lys Phe Cys
        275                 280                 285
Pro Ser Ser Arg
    290
```

<210> 25258
<211> 338
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26),(75),(93)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25258
Leu Arg Ala Cys Phe Val Arg Asn Leu Leu Thr Trp Tyr Arg Glu Pro
1               5                   10                  15
Asn Ser His Ser Val His Pro Ala Leu Xaa Pro Asp Phe Gln Val Ala
            20                  25                  30
Ser Cys Val Pro Glu Glu Thr Leu Ser Gln Arg Ile Thr Leu Lys Gln
        35                  40                  45
Glu Ser Gly Ile Asp Ala Gln Glu Ala Leu Arg Gln Ile Lys Ser Gly
    50                  55                  60
Ala Ser Gly Gln Thr Ala Pro Pro Ala Pro Xaa Pro Pro Pro Val Pro
65                  70                  75                  80
Thr Leu Asn Val Pro Gly Gly Val Pro Pro Pro Pro Xaa Pro Pro Pro
                85                  90                  95
Gly Ala Leu Pro Ala Pro Val Ala Ala Ala Pro Asp Met Ser Ala Val
            100                 105                 110
```

```
Phe Ala Gln Leu Asn Gln Gly Asp Ala Ile Thr Ser Gly Leu Arg Lys
        115                 120                 125
Val Asp Lys Ser Glu Met Thr His Lys Asn Pro Ser Leu Arg Ala Gly
    130                 135                 140
Ala Thr Val Pro Glu Arg Pro Ser Ser Gln Gly Ser Ile Ser Arg Ser
145                 150                 155                 160
Lys Ser Pro Ala Pro Ser Lys Lys Pro Lys Pro Glu Ser Met Arg Ala
                165                 170                 175
Arg Lys Pro Pro Arg Lys Glu Leu Glu Gly Asn Lys Trp Leu Leu Glu
            180                 185                 190
Asn Phe Asp Asn Pro Gly Gly Ile Ile Glu Ile Ser Ala Gln Gln Asn
        195                 200                 205
Gln Ser Ile Leu Ile Ser Arg Cys Asn Lys Thr Ile Val Lys Val Asn
    210                 215                 220
Asn Lys Ala Asn Ala Ile Ser Ile Asp Asn Cys Asn Gly Leu Ser Ile
225                 230                 235                 240
Ile Val Asp Ser Leu Val Ser Ser Leu Asp Val Ile Lys Ser Ala Lys
                245                 250                 255
Phe Ala Leu Gln Ile Asp Gly Val Val Pro Thr Leu Leu Leu Asp Gln
            260                 265                 270
Val Asp Gly Ala Thr Ile Tyr Leu Gly Gln Gln Ser Leu Ala Thr Glu
        275                 280                 285
Val Phe Ser Ser Lys Cys Thr Ala Val Asn Val Met Leu Pro Pro Lys
    290                 295                 300
Glu Gly Thr Asp Asp Asp Thr Lys Glu Cys Pro Val Pro Glu Gln Ile
305                 310                 315                 320
Lys Ser Tyr Val Lys Asp Gly Val Leu Val Ser Glu Ile Val Glu His
                325                 330                 335
Ala Gly
```

<210> 25259
<211> 253
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16),(43)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25259

```
Ser Phe Glu Pro Val Thr Pro Pro Gln His Ser Val Pro Phe Gly Xaa
1               5                   10                  15
Glu Pro Ala Tyr Ile Ala Asn Glu Asn Thr Gly Leu Tyr Thr Ala Ile
            20                  25                  30
Pro Asp Ile Thr Ser Ala Ala Thr Phe Asn Xaa Met Met Gln Leu Pro
        35                  40                  45
Pro Ser Asn Leu Ala Ser Ala Ser Tyr Pro Met Pro Ala Arg Thr Tyr
    50                  55                  60
His Ser Asn Val Tyr Ser Val Ile Glu Gly Ser Pro Thr Tyr Lys Gln
65                  70                  75                  80
Arg Arg Arg Arg Ser Ser Ile Pro Pro Ser Ala Ala Ala Asn Gly His
                85                  90                  95
Ala Gln Thr Thr Ser Pro Pro Ser Gln Gln Ile Ala Tyr Ala Ala His
            100                 105                 110
```

```
Arg Pro Ser Asp Leu Arg Arg Ser Val Ser Asn Ser Val Val Pro Ala
        115                 120                 125
Ala Glu Gly Glu Asp Thr His Glu Ala Ser Asn His Gly Ala Asn Gly
    130                 135                 140
Tyr Thr Ser Ala Val Leu Pro Arg Arg Asn Leu Leu His Asp Met Ser
145                 150                 155                 160
Arg Asn Gly Thr Pro Leu Ser Asn Val Glu Glu Asn Pro Glu Ser Asn
                165                 170                 175
Pro Gln Thr Thr Gly His Gln Asp Asp Leu Val Thr Leu Pro Asn Gly
            180                 185                 190
Glu Ala Tyr Glu Gly Gly Val Gln Asn Asn Val Ser Asn Lys Val Glu
        195                 200                 205
Arg Phe Thr Pro Gly Pro Ile Arg Arg Ala Arg Ser Ala Thr Met Met
    210                 215                 220
Glu Leu Gly Pro Tyr Pro Gln Lys Ser His Ser Cys Pro Ile Pro Ser
225                 230                 235                 240
Cys Gly Arg Leu Phe Lys Arg Leu Glu His Leu Lys Arg
                245                 250
```

<210> 25260
<211> 214
<212> PRT
<213> A.fumigatus

<400> 25260

```
Ile Leu Gln Ala Tyr Phe Trp Thr Asn Thr Arg Lys Asn Ile Thr Lys
1               5                   10                  15
Tyr Asn Pro Met Arg Gly Ile Val Asp Asp Asp Val Ala Arg Val Leu
            20                  25                  30
Leu His Asp Val Ile Val Ala Lys Asp Leu Ala Lys Ala Glu Arg Glu
        35                  40                  45
Leu Leu Ala Met Ser Gly Leu Lys Lys Phe Met Ala Arg Leu Pro Asn
    50                  55                  60
Asn Arg Glu Lys Asp Trp Phe Arg Arg His Leu Arg Lys Tyr Ile Gln
65                  70                  75                  80
Met Tyr Leu Pro Asp Ser Pro Phe Glu Ile Thr Thr Thr Asn Arg Tyr
                85                  90                  95
Thr Ile Thr Glu Tyr Glu Ala Ala Val Cys Ala Arg Lys Phe Ile Lys
            100                 105                 110
Gln Gly Gln Glu Ile Lys Tyr Leu Ser Gly Thr Leu Val Pro Met Thr
        115                 120                 125
Arg Glu Glu Glu Arg Asp Leu Asp Leu Lys Arg Lys Asp Phe Ser Ile
    130                 135                 140
Val Met Ser Ser Arg Lys Lys Thr Pro Ser Phe Phe Leu Gly Pro Ala
145                 150                 155                 160
Arg Phe Ala Asn His Asp Cys Asn Ala Asn Gly Lys Leu Val Thr Arg
                165                 170                 175
Gly Ser Glu Gly Met Gln Val Val Ala Thr Arg Asp Ile Tyr Ile Gly
            180                 185                 190
Glu Glu Ile Thr Val Ser Tyr Gly Asp Asp Tyr Phe Val Phe Thr Pro
        195                 200                 205
Arg Arg Lys Lys Glu Ser
    210
```

<210> 25261
<211> 345

<212> PRT
<213> A.fumigatus

<400> 25261
Thr Thr Ala Gly Val Phe Leu Val Pro His Tyr Pro Arg Arg Ala Arg
1 5 10 15
Lys Ile Ser His Phe Gly Ser Val Thr Arg Lys Leu His Phe Ala Glu
20 25 30
Glu Arg Arg Lys Val Cys Gln Ala His Gln Glu Glu Ser Glu Arg Asp
35 40 45
Asp Glu Pro Gln Arg Lys Gln Pro Met Val Arg Lys Lys Ser Gly Glu
50 55 60
Leu Val Arg Pro Ala Leu Arg Pro Pro Ser Ala Arg Arg Arg Pro Ser
65 70 75 80
Ser Met Pro Gly Thr Pro Thr Tyr Ala Lys Ala Val His Phe Asp Ser
85 90 95
Gln Leu Glu His Ile Arg His Phe Leu Gln Leu Asp Lys Pro Gln Ala
100 105 110
Val Ser Ala Asn Thr Ser Pro Ala Glu Asp Tyr Asn Asn Glu Ser Glu
115 120 125
Phe Pro Phe Glu Ala Pro Ser Phe Glu Arg Glu Ile Arg Leu Ser Asn
130 135 140
Phe Pro Lys Asp Val Ser Ser Arg Ala Leu Gln Lys Val Arg Leu Glu
145 150 155 160
Arg Leu Phe Leu Ser Ser Asp Lys Asp Thr Leu Val Gly Val Val Ala
165 170 175
Val Ala Asn Leu Ala Phe Gln Lys His Ile Ala Ala Arg Phe Thr Phe
180 185 190
Asp Tyr Trp Arg Thr Val Ser Glu Val Thr Ala Glu Tyr Ser Asp Asp
195 200 205
Val Arg Arg Lys Gln Ala Asn Asp Gly Tyr Asp Arg Phe Thr Phe Ser
210 215 220
Ile Lys Leu Thr Asp His Ala Asn Leu Glu Gln Lys Thr Met Phe Val
225 230 235 240
Cys Val Arg Tyr Ser Val Ala Gly Gln Glu Phe Trp Asp Asn Asn Asn
245 250 255
Phe Met Asn Tyr Gln Val Asn Phe Val Arg Ile Pro Arg Pro Arg Pro
260 265 270
Glu Pro Arg Arg Pro Ser Ala Ala Thr Ser Arg Pro Thr Leu Pro Arg
275 280 285
Ser Lys Ser Phe Ala Gly Val Asn Ser Arg Pro Ser Met Pro Ser Ser
290 295 300
Leu Asp Asp Phe Asp Glu Asp Met Asn Asp Tyr Leu Ser Phe Gly Arg
305 310 315 320
Pro Lys Lys Pro Leu Lys Glu Glu Ser Ser Ser Glu Asn Leu Leu Lys
325 330 335
Glu Val His Arg Met Ser Ala Ser Pro
340 345

<210> 25262
<211> 148
<212> PRT
<213> A.fumigatus

<400> 25262
Pro Leu Thr Ile Pro Ser Ile Lys His Ala Pro Val Ser Ser Leu His

```
1               5                   10                  15
Pro Pro Gln Ser Phe His Lys Glu Ala Thr Ser Val Pro Phe Asn Lys
            20                  25                  30
Met Lys Thr Lys Ala Thr Ser Leu Phe Leu Cys Val Ser Ala Leu Val
        35                  40                  45
Ser Ser Ile Ser Ala Leu Thr Ile Ser Arg Ile Asn Gly Asn Lys Tyr
    50                  55                  60
Leu Ser Pro Tyr Ala Gly Glu Thr Val Ser Asn Ile Gln Gly Leu Val
65                  70                  75                  80
Thr Ala Lys Gly Pro Ser Gly Phe Tyr Leu Arg Ser Thr Thr Pro Asp
                85                  90                  95
Asp Asp Asp Ala Thr Ser Glu Ser Met Tyr Val Tyr Gly Ser Thr Ala
            100                 105                 110
Val Ser Lys Val Ser Val Gly Asp Ile Ile Ser Leu Ser Gly Lys Val
        115                 120                 125
Ser Glu Tyr Arg Ser Ser Ala Ser Tyr Val Val Leu Thr Ala Gly Arg
    130                 135                 140
Asp Arg Arg Lys
145
```

<210> 25263
<211> 87
<212> PRT
<213> A.fumigatus

```
<400> 25263
Thr Phe Pro Phe Leu Leu Arg Gly Leu Leu Val Phe Ile Gly Cys Arg
1               5                   10                  15
Trp Leu Thr Gly Glu Asn Gly Pro Arg Leu Leu His Val Ala Gly Thr
            20                  25                  30
Tyr Phe Phe Thr Lys Gly Phe Leu Leu Thr Arg Met Val Leu Glu Asp
        35                  40                  45
Lys Ser Ala Cys Asp Val Leu Pro Phe Asp Asp Ser Ser Ser Ser Ala
    50                  55                  60
Ser Lys Gly Lys Gln Gly Cys Trp His Glu Lys Ser Phe Asp Lys Ala
65                  70                  75                  80
Ile Val Ile Thr Ile Asp Ala
                85
```

<210> 25264
<211> 444
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (93)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25264
Gly Leu Leu Gly Ser Pro Ser Phe Pro Thr Pro Val Pro Lys Ile Phe
1               5                   10                  15
Val Arg Ile Pro Ser Thr Leu Phe Ala Ser Arg Gln Ser Phe Ser Asp
            20                  25                  30
Phe His Thr Ser Pro Asn Leu Gly Met Ile Gln Leu Thr Pro Pro Ser
        35                  40                  45
```

```
Asn Ala Gln Ser Ser Leu Pro Tyr Pro Pro Val Met His Leu Thr Gln
    50                  55                  60
His Thr Leu Gln Pro Val Gln Ala Pro Met Met Ser Pro Pro Met Arg
65                  70                  75                  80
Trp Gly Phe Glu Ala Ser Pro Pro Thr Gly Thr Phe Xaa Ser Pro Arg
                85                  90                  95
Arg Ser Asn Gln Trp Thr Pro Arg Gln Phe Ser Thr His Gln Asn Gln
            100                 105                 110
Ser Ser Ser Asn Gly Asn Ser Met Lys His Gly Gly Lys Arg Asp His
        115                 120                 125
Ala Ser Ala Phe Gly Gly Lys Pro Pro Thr Val Ala Pro Ser Val Pro
    130                 135                 140
Ala Pro Pro Pro Val Pro Ser Phe Gly Asn Pro Leu Pro Val Lys Pro
145                 150                 155                 160
Pro Pro Ala Val Asp Ala Ala Asn Pro Arg Lys Lys Asn Arg Lys His
                165                 170                 175
Asn Gln Leu Gly Leu Thr Pro Lys Thr Glu Asp His Glu Ser Ser Glu
            180                 185                 190
Glu Asp Asp Val Asp Glu Glu Ser Arg Leu Ala Pro Ala Ala Ala Ser
        195                 200                 205
Ala Ile Val Pro Leu Arg Phe Thr Tyr Lys Gly Arg Thr Ser Thr Leu
    210                 215                 220
Gln Ser Pro Thr Asp Ile Ala Ala Trp Ile Glu Glu Arg Lys Lys Arg
225                 230                 235                 240
Phe Pro Thr Gln Ala Lys Ala Glu Glu Lys Arg Lys Ala Met Gln Glu
                245                 250                 255
Ala Lys Lys Ala Arg Glu Glu Ala Leu Asn Lys Lys Arg Ile Glu Arg
            260                 265                 270
Gln Glu Gln Arg Arg Ala Gln Lys Val Ala Asn Asp Arg Pro Glu Ser
        275                 280                 285
Val Ile Asp Pro Ala Asp Ala Ala Ala Lys Ala Lys Arg Lys Ala Asp
    290                 295                 300
Lys Leu Gln Arg Lys Leu Leu Lys Glu Gln Glu Arg Val Ala Lys Ala
305                 310                 315                 320
Glu Ala Asp Ala Glu Arg Ala Arg Leu Glu Val Glu Arg Leu Gln Lys
                325                 330                 335
Val Ala Met Glu Ala Arg Arg Gly Ser Glu Ser Ala Thr Gln Lys Thr
            340                 345                 350
Glu Ile Gln Pro Ser Val Ala Ala Glu Lys Pro Asp Pro Glu Ser Gly
        355                 360                 365
Gln Lys Val Glu Met Val Gly Ser Lys Asp Asn Asn Ser Glu Ala Val
    370                 375                 380
Ala Val Pro Thr Glu Ser Ser Ile Ala Ser Met Ala His Gly Thr Val
385                 390                 395                 400
Val Thr Lys Ile Glu Pro Gly Asp Ser Val Glu Ser Arg Asn Glu Glu
                405                 410                 415
Ser Ala Ala Ser Ser Phe Asp Asp Ser Asp Ser Ser Asp Trp Thr Ser
            420                 425                 430
Ser Ser Gly Ser Asp Ile Ser Ser Asp Ser Asp Glu
        435                 440
```

<210> 25265
<211> 266
<212> PRT
<213> A.fumigatus

<400> 25265
Tyr Val Pro Val Arg Phe Pro Leu Ala Ile Asn Ser Asp His Arg Leu
1 5 10 15
Leu Thr Thr Tyr Arg Ser Glu Ala Lys Gly Met Leu Met Asp Phe Lys
20 25 30
Ser Arg Glu Lys Gly Gly Thr Thr Tyr Ser His Val Leu Glu Val Leu
35 40 45
Leu Arg Met Arg Gln Val Cys Asn His Trp Ala Leu Cys Lys His Arg
50 55 60
Val Asp Ala Leu Ala Gly Leu Leu Glu Lys His Lys Val Val Pro Leu
65 70 75 80
Thr Pro Glu Asn Ile Lys Ala Leu Gln Asp Thr Leu Gln Leu Arg Ile
85 90 95
Glu Ser Gln Glu Met Cys Pro Ile Cys Leu Asp Ile Leu Glu Gln Pro
100 105 110
Val Ile Thr Ala Cys Gly His Ser Tyr Asp Arg Gly Cys Ile Glu Gln
115 120 125
Val Ile Glu Arg Gln His Lys Cys Pro Leu Cys Arg Ala Asn Ile Asp
130 135 140
Asp Asn Ser Thr Leu Val Ala Pro Ala Val Asp Leu Gly Glu Ser Ala
145 150 155 160
Asp Glu Asp Val Asp Ala Asp Pro Asn Asn Pro Ser Ser Lys Ile Glu
165 170 175
Ala Leu Ile Lys Ile Leu Thr Ala Gln Gly Gln Ala Pro Asp Thr Lys
180 185 190
Thr Val Val Phe Ser Gln Trp Thr Ser Phe Leu Thr Leu Val Glu Pro
195 200 205
His Leu Gln Arg His Gly Ile Gly Tyr Ala Arg Ile Asp Gly Ser Met
210 215 220
Lys Ser Thr Ala Arg Asp Ala Ser Thr Tyr Lys Phe Ser Lys Asp Pro
225 230 235 240
Gln Cys Lys Val Leu Leu Ala Ser Leu Ser Val Cys Ser Val Gly Leu
245 250 255
Asn Leu Val Ala Ala Asn Gln Ala Ile Leu
260 265

<210> 25266
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25266
Arg Trp Arg Cys Ser Phe Gln Pro Arg Gly Glu Asp Gly Arg Leu Leu
1 5 10 15
Leu Gln Ala Leu Met Ser Ala Ile Cys Leu Arg Arg Arg Lys Asp Met
20 25 30
Glu Phe Val Asn Leu Arg Leu Pro Ala Leu Thr Ser Arg Val Leu Arg
35 40 45
Ile Lys Phe His Pro His Glu Gln Glu Lys Tyr Asp Met Phe Gln Tyr
50 55 60
Val Ser Leu Ser Leu Ser Ile Arg Thr Thr Ala Cys
65 70 75

<210> 25267
<211> 220
<212> PRT

<213> A.fumigatus

<400> 25267

```
Ser Asn Asn Thr Ala Ser Gly Gly Tyr Val Trp Gly His Tyr Val Ser
1               5                  10                  15
Gln Tyr Ala Asp Val Asn Leu Tyr Asn Tyr Ala Val Ser Gly Ala Val
            20                  25                  30
Cys Ser Asn Glu Ile Thr Pro Arg Thr Phe Ser Ser Ile Asn Ala Pro
        35                  40                  45
Phe Pro Ser Val Leu Glu Tyr Glu Val Ser Ala Phe Leu Ala Asp Ser
    50                  55                  60
Lys His Lys Val Ser Gly Lys Arg Phe Leu His Ile Pro Pro Arg Glu
65                  70                  75                  80
Thr Val Tyr Ser Ile Trp Ile Gly Thr Asn Asp Leu Gly Asn Tyr Ala
                85                  90                  95
Phe Ile Thr Asp Ser Gln Val Lys Asp Lys Thr Ile Pro Asp Tyr Ile
            100                 105                 110
Asn Cys Val Tyr Ser Val Leu Asp Arg Val Tyr Ala Ser Gly Gly Arg
        115                 120                 125
Tyr Phe Val Leu Met Asn Leu Ala Pro Leu Gln Leu Ala Pro Leu Tyr
    130                 135                 140
Ala Thr Pro Glu Asn Gly Gly Val Gly Ala Asn His Tyr Trp Pro Asp
145                 150                 155                 160
Lys Pro Asp Asn Leu Thr Leu Thr Ser Tyr Arg Met Trp Glu Gln Val
                165                 170                 175
Ala Thr Val Asn His Val Phe Gln Tyr Gln Thr Pro Tyr Glu Leu Leu
            180                 185                 190
Val Ala Arg Arg Tyr Pro Gly Ala Arg Phe Ala Val Met Asp Met Tyr
        195                 200                 205
Gly Leu Val Cys Cys Val Leu Val Ile Gly Ser Gly
    210                 215                 220
```

<210> 25268
<211> 88
<212> PRT
<213> A.fumigatus

<400> 25268

```
Ser Leu Gly Leu Asp Asp Thr Asp Phe Trp Gln Leu Ser Glu Val Tyr
1               5                  10                  15
Tyr Asn Pro Thr Lys Tyr Phe Asn Gly Ser Ala Gln Ala Asn Val Thr
            20                  25                  30
Gly Phe Asn Asn His Cys Thr Leu Asp Gly Gly Gln Cys Thr Arg Leu
        35                  40                  45
Pro Ser Pro Asp Ser Phe Met Trp Phe Asp Glu Leu His Pro Ser Gln
    50                  55                  60
Arg Thr Asp Gln Ile Ile Ala Glu Glu Phe Val Lys Val Val Gly Gly
65                  70                  75                  80
Asp Ser Lys Trp Ala Thr Tyr Trp
                85
```

<210> 25269
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25269
Asn Thr Leu Trp Asp Cys Asn Lys Pro Arg Lys Ala Ala Lys Asn Gln
1 5 10 15
Cys His Pro Asp Pro Met Thr Asn Thr Gln His Thr Asn Pro Tyr Met
20 25 30
Ser Ile Thr Ala Asn Arg Ala Pro Gly Tyr Leu Arg Ala Thr Asn Ser
35 40 45
Ser Tyr Gly Val Trp Tyr Trp Asn Thr Trp Phe Thr Val Ala Thr Cys
50 55 60
Ser His Ile Arg
65

<210> 25270
<211> 158
<212> PRT
<213> A.fumigatus

<400> 25270
Pro Thr Glu Leu Lys Ser Gln Asn Met Ala Gln Lys Pro Lys Lys Gln
1 5 10 15
Arg Val Thr Thr Ala Val Phe Val Thr Ser Ile Pro Leu Asp Ala Glu
20 25 30
Phe Asp Glu Ile Arg Asp Val Phe Ser Lys Cys Gly Val Ile Ala Glu
35 40 45
Glu Ile Asp Ser Gly Arg Pro Arg Ile Lys Met Tyr Met Asp Glu Asn
50 55 60
Gly Lys Phe Lys Gly Glu Ala Leu Ile Val Tyr Phe Arg Pro Glu Ser
65 70 75 80
Val Asn Leu Ala Ile Gln Met Leu Asp Glu Ser Asp Phe Arg Leu Gly
85 90 95
Val Ser Gly Pro Gln Gly Pro Met Lys Val Gln Ala Ala Asp Phe Ser
100 105 110
Phe Lys Ser Gln Gln Glu Ala Pro Ala Lys Ser Ser Met Arg Asp Lys
115 120 125
Lys Lys Ile Ile Lys Arg Thr Gln Lys Leu Asn Arg Ser Val Gln Gly
130 135 140
Asn Pro Arg Asp Leu Thr Arg Cys Gly Leu Thr Trp Ser Tyr
145 150 155

<210> 25271
<211> 205
<212> PRT
<213> A.fumigatus

<400> 25271
Asp Phe Ser Ser Ala Ser Phe Ala Asn Ser Leu Val Leu Ala Thr Asn
1 5 10 15
Asn Ala Thr Asp Thr Pro Leu Asp Leu Ser Thr Pro Leu Ser Arg Val
20 25 30
Leu Phe Asp Leu Gln Glu Ile Asp Thr His Ile His Asn Leu Thr Ser
35 40 45
Lys Ser Ala Ile Pro Leu Leu Thr His Thr Arg Asp Gln Thr Val Ala
50 55 60
Ala Glu Arg Ile Leu Lys Glu Thr Glu Glu Gln Leu Ser Ser Val Thr
65 70 75 80
Lys Gly Tyr Glu Arg Leu Glu Gln Glu Val Leu Arg Lys Trp Glu Ala

```
                85                  90                  95
Ala Asp Glu Ala Arg Val Ala Ala Glu Lys Ser Leu Ala Thr Val Arg
            100                 105                 110
Leu Ala Arg Ala Val Ala Arg Cys Leu Ala Leu Gly Arg Gln Leu Glu
        115                 120                 125
Gly Gln Leu Ser Glu Val Thr Gly Arg Gly Gly Pro Ala Ala Thr Ala
    130                 135                 140
Gly Ala Gln Asp Arg Ser Ser Ala Asn Pro Gly Arg Glu Asp Tyr Arg
145                 150                 155                 160
Ala Leu Glu Arg Ala Ala Ser Thr Ile Val Ser Leu Arg Arg Met Phe
                165                 170                 175
Ser Ala Thr Ala Val Gly Glu Glu Gly Tyr Gly Leu Glu Arg Val Asn
            180                 185                 190
Val Ile Arg Thr Leu Arg Gly Glu Leu Val Ile Pro Gly
        195                 200                 205
```

<210> 25272
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25272

```
Leu Thr Thr Phe Arg Gly Ile Arg Trp Ala Pro Leu Asn Ile Gly Ile
1               5                   10                  15
Glu Arg Arg Met Gln Thr Phe Val Val Leu Cys His Thr Leu Thr Ile
            20                  25                  30
Ala Ile Phe Leu Thr Val Phe Phe Phe Ala Cys Ala Leu Pro Val Phe
        35                  40                  45
Trp Pro Leu Leu Leu Pro Tyr Leu Val Tyr Ile Ser Leu Phe Ser Ser
    50                  55                  60
Ser Ala Thr Ser Gly Thr Leu Ser Gly Arg Ser Asn Phe Met Arg Ser
65                  70                  75                  80
Leu Ser Ile Trp Ser Leu Tyr Ala Ser Tyr Phe Pro Ala Cys Leu His
                85                  90                  95
Arg Ser Glu Ala Leu Leu Pro Thr Arg Lys Tyr Ile Phe Gly Tyr His
            100                 105                 110
Pro His Gly Ile Leu Ser His Gly Ala Phe Ala Ala Phe Ala Thr Glu
        115                 120                 125
Ala Leu Gly Phe Ser Arg Leu Phe Pro Gly Met Ser Ser Pro Arg
    130                 135                 140
```

<210> 25273
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25273

```
Val Gly Val Ala Ile Ser Cys Val Arg Ser Gln Tyr Gly His Phe Met
1               5                   10                  15
Pro Pro Ile Phe Leu Leu Ala Cys Ile Ala Leu Lys Arg Tyr Phe Gln
            20                  25                  30
His Ala Asn Ile Tyr Ser Ala Thr Thr Pro Met Ala Tyr Phe Leu Thr
        35                  40                  45
Val His Leu Leu His Leu Leu Leu Lys His Ser Asp Phe Arg Gly Cys
    50                  55                  60
Phe Arg Glu Cys Leu His His Gly
```

65 70

<210> 25274
<211> 370
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (58)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25274
Ile Leu Ala Ser Gly Gln Phe Ser His Leu Pro Gly Tyr Gly Thr Leu
1 5 10 15
Cys Ser Leu Val Asp Arg Leu Val His Trp Ile Gly Gln Asp His Ser
20 25 30
Ser Ala Val Gly Arg Phe Cys Met Ala Ala Ile Asp Ser Gly Ser Cys
35 40 45
Ile Asp Phe His Pro Asp Tyr Ile Pro Xaa Ser Gly Lys Thr Phe Leu
50 55 60
Leu Thr Thr Leu Ile Met Ile Ile His Ser Phe Ile Ser Ser Met Pro
65 70 75 80
Thr Lys Trp Val Ala Arg Phe Asn Ser Tyr Gly Ser Thr Phe Asn Met
85 90 95
Met Ala Leu Val Val Val Leu Ile Ala Ile Pro Ala Gly Thr Lys Asn
100 105 110
Glu Pro Lys Phe Asn Pro Ser Lys Glu Val Trp Gly Thr Ile Thr Asn
115 120 125
Gly Thr Glu Phe Pro Asp Gly Val Ala Val Leu Met Thr Phe Val Gly
130 135 140
Val Ile Trp Thr Met Ser Gly Tyr Asp Ser Pro Phe His Leu Ser Glu
145 150 155 160
Glu Cys Ser Asn Ala Asn Val Ala Ser Pro Arg Ala Ile Val Met Thr
165 170 175
Ser Gly Val Gly Gly Leu Met Gly Trp Phe Leu Gln Leu Val Val Ala
180 185 190
Tyr Thr Val Leu Asp Ile Glu Ala Val Ile Asp Ser Asp Leu Gly Gln
195 200 205
Pro Trp Ala Ser Tyr Leu Leu Gln Val Met Pro Arg Lys Thr Ala Met
210 215 220
Ala Ile Leu Gly Leu Thr Ile Val Cys Gly Phe Ser Met Gly Gln Gly
225 230 235 240
Cys Met Val Ala Ala Ser Arg Val Thr Tyr Ala Tyr Ala Arg Asp Asp
245 250 255
Cys Phe Pro Leu Ser Arg Ile Trp Lys Lys Val Asn Glu Arg Thr Lys
260 265 270
Thr Pro Val Asn Ala Val Ile Leu Asn Thr Val Leu Gly Ile Leu Met
275 280 285
Cys Leu Leu Ile Leu Ala Gly Asp Val Ala Ile Gly Ala Leu Phe Ser
290 295 300
Ile Gly Ala Ile Ala Gln Phe Val Ala Phe Thr Ile Pro Ile Ser Ile
305 310 315 320
Arg Val Phe Phe Val Gly Asn Arg Phe Gln Lys Gly Pro Trp His Leu
325 330 335
Gly Pro Phe Gly Pro Ala Ile Gly Gly Leu Gly Val Leu Phe Val Leu

```
            340                 345                 350
Leu Met Val Pro Ile Leu Cys Leu Pro Gln Arg Glu Arg Gly Gly Phe
        355                 360                 365
Asp Pro
    370
```

<210> 25275
<211> 65
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (55)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25275

```
Gln Ala Gly Ser Phe Arg Thr Phe Gln Gly Thr Glu Pro Phe Ala Ala
1               5                   10                  15
Trp Leu Thr Gly Trp Ser Thr Gly Leu Ala Lys Ile Thr Ala Ala Pro
            20                  25                  30
Ser Val Asp Phe Ala Trp Arg Arg Leu Ile Leu Ala Val Ala Ser Ile
        35                  40                  45
Ser Thr Arg Thr Ile Ser Xaa Pro Val Ala Arg Arg Ser Ser Ser Leu
    50                  55                  60
Arg
65
```

<210> 25276
<211> 87
<212> PRT
<213> A.fumigatus

<400> 25276

```
Trp Cys Pro Phe Cys Val Phe Pro Ser Val Arg Gly Ala Asp Leu Ile
1               5                   10                  15
Pro Asp Gln Met Asn Trp Thr Cys Leu Val Trp Gly Ala Pro Met Leu
            20                  25                  30
Thr Val Thr Ile Trp Trp Val Ile Asp Ala Arg Arg Trp Phe Lys Gly
        35                  40                  45
Pro Lys Ile Asn Val Glu His Val Ile His Gly Val Glu Ala Ile Val
    50                  55                  60
Asp Val Gly Val Glu Ala Glu Asp Gln Arg Ser Gln Ser Gln Asp Ala
65                  70                  75                  80
Ala Ser Lys Ser Ser Asn Val
                85
```

<210> 25277
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25277

```
Gln Leu Cys Arg Arg Lys Thr Ala Ala Arg Val Leu Tyr Cys Thr Ser
1               5                   10                  15
Trp Tyr Pro Ser Leu Ala Val Phe Asn Gln Gln Asp Leu Phe Ala Thr
```

```
            20                  25                  30
Ser Lys Thr His Ile Glu Leu Thr Val Gln Cys His Ser Gly Leu Thr
        35                  40                  45
His Phe His Tyr Gln Ile Ser Ser Asp Cys Ala Val Ser Ala Pro Pro
    50                  55                  60
Arg Asp Pro Pro Gln Thr Gln Leu Ser Pro Leu Ser Ser Ile Ile Gly
65                  70                  75                  80
Leu Tyr Arg
```

<210> 25278
<211> 403
<212> PRT
<213> A.fumigatus

<400> 25278

```
Ala Glu Gln Thr Asp Pro Met His Arg Leu Ala Leu Val Thr Ala Tyr
1               5                   10                  15
Glu Ala Met Glu Met Ala Gly Met Phe Pro Ala Ala Ile Arg Ser Thr
            20                  25                  30
Arg Pro Asn Arg Ile Gly Thr Phe Tyr Gly Gln Ala Ser Asp Asp Trp
        35                  40                  45
Arg Glu Leu Asn Ala Ser Gln Asn Ile Ser Thr Tyr Ala Val Pro Gly
    50                  55                  60
Gly Glu Arg Ala Phe Ala Asn Gly Arg Ile Asn Tyr Phe Phe Lys Phe
65                  70                  75                  80
Ser Gly Pro Ser Tyr Asn Ile Asp Thr Ala Cys Ser Ser Gly Leu Ala
                85                  90                  95
Ala Val Gln Ala Ala Cys Ser Ala Leu Trp Ala Gly Glu Ala Asp Thr
            100                 105                 110
Val Ile Ala Gly Gly Leu Asn Val Ile Thr Asp Pro Asp Asn Tyr Ala
        115                 120                 125
Gly Leu Gly Asn Gly His Phe Leu Ser Lys Thr Gly Gln Cys Lys Val
    130                 135                 140
Trp Asp Lys Asp Ala Asp Gly Tyr Cys Arg Ala Asp Gly Ile Gly Ser
145                 150                 155                 160
Val Val Ile Lys Arg Leu Glu Asp Ala Glu Ala Asp Asn Asp Asn Ile
                165                 170                 175
Leu Ala Val Ile Leu Gly Ala Arg Thr Asn His Ser Ala Glu Ala Val
            180                 185                 190
Ser Ile Thr His Pro His Ala Gly Ala Gln Lys Ala Asn Tyr Arg Gln
        195                 200                 205
Val Leu His Gln Ala Gly Val Asn Pro Leu Asp Val Ser Tyr Val Glu
    210                 215                 220
Leu His Gly Thr Gly Thr Gln Ala Gly Asp Ala Val Glu Ser Glu Ser
225                 230                 235                 240
Val Ser Asp Val Phe Ala Pro Ser Thr Pro Arg Arg Arg Pro Asp Gln
                245                 250                 255
Arg Leu Tyr Leu Gly Ala Val Lys Ser Asn Ile Gly His Gly Glu Ala
            260                 265                 270
Ala Ala Gly Ile Thr Ser Leu Leu Lys Ala Leu Leu Val Phe Gln Lys
        275                 280                 285
Asn Met Ile Pro Lys His Ile Gly Ile Lys Thr Glu Ile Asn Pro Ile
    290                 295                 300
Ile Pro Lys Asp Leu Glu Arg Arg His Val Gly Leu Ala Met Glu Asn
305                 310                 315                 320
```

```
Thr Pro Trp Pro Arg Pro Ala Gly Lys Lys Arg Leu Ala Val Val Asn
                325                 330                 335
Ser Phe Gly Ala His Gly Gly Asn Thr Thr Val Leu Leu Glu Asp Ala
            340                 345                 350
Pro Glu Arg Val Lys Val Ser Thr Gln Asp Asp Arg Thr Thr His Pro
        355                 360                 365
Val Val Ile Ser Ala Lys Ser Lys Lys Ser Leu Gln Ala Asn Ile Glu
    370                 375                 380
Lys Leu Leu Ser Trp Leu Asp Gln Asn Pro Asp Ala Glu Thr Ser Gly
385                 390                 395                 400
Asn Phe Pro
```

<210> 25279
<211> 147
<212> PRT
<213> A.fumigatus

<400> 25279

```
Leu Ser Ala Leu Val Arg Cys Ile Leu Ser Ile Phe Glu Ala Ser Thr
1               5                   10                  15
Asp Thr Met Phe Ser Val Ile Val Lys His Gln Gly Lys Arg His Glu
            20                  25                  30
Val Glu Leu Asp Pro Ser Ala Asn Gly Glu Thr Leu Lys Tyr Gln Met
        35                  40                  45
Tyr Ser Leu Thr Gly Val Glu Pro Glu Arg Gln Lys Ile Leu Val Lys
    50                  55                  60
Gly Gly Gln Leu Lys Asp Glu Thr Pro Leu Ser Ala Leu Asn Ala Lys
65                  70                  75                  80
Pro Gly Gln Thr Phe Met Met Met Gly Thr Pro Ser Gly Gly Gln Asp
                85                  90                  95
Ala Val Asp Leu Gly Arg Pro Lys Glu Pro Val Lys Phe Leu Glu Asp
            100                 105                 110
Met Thr Glu Ala Glu Ala Ala Arg Ala Glu Gly Ala Ile Pro Ala Gly
        115                 120                 125
Ser Lys Asn Leu Gly Asn Asn Trp Tyr Leu Asn Ser Tyr Pro Thr Asn
    130                 135                 140
Pro Glu Gly
145
```

<210> 25280
<211> 153
<212> PRT
<213> A.fumigatus

<400> 25280

```
Ser Gln Ser Leu Arg Pro Tyr Leu Gln Cys Val Arg Ser Ser Leu Thr
1               5                   10                  15
Ala Ala Leu Ala Ile Ser Asn Phe Ala Ser Gln Thr Ser Glu Arg His
            20                  25                  30
Asn Val Pro Glu Ile Glu Ala Gln Ser Ser Pro Glu Leu Leu Leu Asn
        35                  40                  45
Pro Leu Thr Ile Ser Arg Asn Glu Asn Glu Lys Val Leu Ile Glu Pro
    50                  55                  60
Ser Val Asn Ser Val Arg Val Ser Ile Arg Ile Lys Gln Ala Asp Glu
65                  70                  75                  80
```

```
Ile Glu His Ile Leu Val His Lys Phe Thr Arg Phe Leu Thr Gln Arg
                85                  90                  95
Ala Glu Ser Phe Phe Ile Leu Arg Arg Lys Pro Val Lys Val Arg Lys
            100                 105                 110
Ser Arg Pro Arg Arg Gly Gln Val Ala His Leu Phe Lys Gly Tyr Asp
        115                 120                 125
Ile Ser Phe Leu Ile Thr Pro Phe His Thr Glu Ala Met Val Phe Thr
    130                 135                 140
Thr Gly Leu Glu Gly Ala Ala Ala Ile
145                 150
```

<210> 25281
<211> 172
<212> PRT
<213> A.fumigatus

<400> 25281

```
Val Cys Met Asn Asp Arg Pro Pro Pro Cys Thr Thr Ile Ser Val Gly
1               5                   10                  15
Phe Ile Ser Tyr Leu Ser Thr His Leu Leu Ile Ser Asn Arg Val Thr
            20                  25                  30
Leu Ile Pro Phe Thr Ile Pro Asn Gln Gln Ile Thr Phe Ala Ile Val
        35                  40                  45
Leu Val Tyr Tyr Phe Phe Phe Leu Phe Phe Phe Phe Phe Asn Pro Phe
    50                  55                  60
Asp His Leu Leu Gln Thr Asn Leu Leu Ile Ile His Asn Ser Thr Ile
65                  70                  75                  80
Ala Ser His Phe Ser Phe Gln Arg Ile Ile Leu Pro Cys Gln Pro Val
                85                  90                  95
Ser Tyr His His Ser Ser Ser Ser Ser Ser Leu Leu Ser Ala Ile Arg
            100                 105                 110
Phe Ile Ile Thr Ala Arg Ser Asp Lys Asn Pro Pro Val Val Ala Cys
        115                 120                 125
Ser Arg Leu Arg Val Asn Pro Gly Arg Ala Asp Ile Ser Gly Ser Leu
    130                 135                 140
Lys Leu Cys Arg Asn Pro Phe Gly Ser Phe Leu Leu Pro Leu Gly Lys
145                 150                 155                 160
Thr Asp Phe Pro Ser Pro Tyr Leu Pro Asp Ile Ser
                165                 170
```

<210> 25282
<211> 135
<212> PRT
<213> A.fumigatus

<400> 25282

```
Trp Thr Val Arg His Ser Ile Glu Leu Phe Asn Ala Thr Asp Gly Ser
1               5                   10                  15
Arg His Arg Lys Thr Arg Arg Gln Ser Gly Leu Tyr Pro Arg Asp Gly
            20                  25                  30
Gly His His Arg Ser Trp His Leu Arg Ser Val Pro Ser Ile Asp Ala
        35                  40                  45
Phe Arg Arg Ile Ala Arg Ala Ala Val Asp Ile Arg Pro Gly Ile Cys
    50                  55                  60
Thr Ala Ile Asp Leu Ile Lys Arg Ser Lys Cys His Asn Phe Ile Ile
65                  70                  75                  80
```

```
Leu Glu Lys Ser Ser Gly Val Gly Gly Thr Trp Asn Asp Asn Arg Tyr
                85                  90                  95
Pro Gly Ser Cys Cys Asp Val Trp Ser Ser Leu Tyr Ser Tyr Ser Phe
            100                 105                 110
Glu Gln Lys Ala Asp Trp Thr Arg Glu Tyr Pro Gly Gln Glu Glu Ile
        115                 120                 125
Leu Val Leu Pro Thr Val Val
    130                 135
```

<210> 25283
<211> 174
<212> PRT
<213> A.fumigatus

<400> 25283

```
Val Met Val Ile Gly Ala Thr Ala Ala Gln Ile Ile Pro Glu Ile Ala
1               5                   10                  15
Lys Thr Ala Ala His Val Ser Val Tyr Gln Arg Thr Pro Asn Trp Val
            20                  25                  30
Met Pro Arg Leu Asp Arg Pro Val Gly Ala Val Gln Arg Ala Leu Leu
        35                  40                  45
Thr Tyr Ile Pro Pro Ile Arg Trp Arg Lys Arg Ala Leu Met Met Asp
    50                  55                  60
Phe Arg Glu Trp Phe Phe Glu Ala Val Val Asp Arg Asn Ser Ala Leu
65                  70                  75                  80
Ser Asp Val Ile Arg Lys Thr Cys Leu Glu Ser Met Arg Ala Gln Leu
                85                  90                  95
Pro Asp Arg Pro Asp Leu Trp Asp Val Leu Thr Pro Asn Tyr Ser Pro
            100                 105                 110
Gly Cys Lys Arg Val Ile Ile Ser Asp Asp Phe Tyr Pro Thr Leu Gly
        115                 120                 125
Arg Glu His Val Ala Leu Glu Thr Arg Pro Thr Gln Arg Ile Thr Glu
    130                 135                 140
Thr Gly Ile Asp Thr Ala Asp Gly Glu Thr Lys Glu Phe Asp Leu Ile
145                 150                 155                 160
Val Ala Ala Thr Gly Phe Arg Thr Val Glu Phe Met Tyr Pro
                165                 170
```

<210> 25284
<211> 194
<212> PRT
<213> A.fumigatus

<400> 25284

```
Gln Asp Tyr Leu Ile Gly Val Ala Gln Lys Tyr Gly Leu Tyr Arg Tyr
1               5                   10                  15
Ile Arg Phe Asn Ser Ala Val Glu Asp Ala Arg Trp Asp Glu Ala Asp
            20                  25                  30
Leu Lys Trp Lys Val Gly Val Arg Val Ser Gly Gly Lys Asp Ser Gln
        35                  40                  45
Tyr Leu Glu Ser Tyr Glu Ile Thr Thr Asp Phe Leu Ile Ser Ala Val
    50                  55                  60
Gly Gln Leu Asn Val Pro Arg Met Pro Asp Ile Pro Gly Leu Asp Asp
65                  70                  75                  80
Tyr Lys Gly Lys Leu Met His Ser Ala Arg Trp Asp Trp Ser Phe Asp
                85                  90                  95
```

```
Trp Thr Gly Lys Arg Val Ala Val Ile Gly Asn Gly Glu Ser Arg Ala
            100                 105                 110
Ser His Cys Leu Arg Gln Asp Val Ser Asn Gly Asp Arg Arg Asn Arg
        115                 120                 125
Arg Pro Asn His Pro Arg Asn Cys Gln Asn Arg Arg Ala Arg Phe Arg
    130                 135                 140
Leu Pro Ala His Pro Gln Leu Gly His Ala Ala Ser Arg Gln Ala Arg
145                 150                 155                 160
Gly Cys Gly Ala Lys Ser Pro Ala Asp Ile His Pro Ala His Pro Val
                165                 170                 175
Ala Glu Ala Arg Ala His Asp Gly Leu Pro Gly Val Val Leu Arg Gly
            180                 185                 190
Arg Gly
```

<210> 25285
<211> 103
<212> PRT
<213> A.fumigatus

<400> 25285

```
Leu Thr Ser Arg Gln Ile Leu Phe Leu Ile Gly Leu Thr Leu Ile Ile
1               5                   10                  15
Gly Val Gln Arg Thr Leu Ala Phe Phe Ser Arg Arg Gln Lys Leu Lys
            20                  25                  30
Gly Thr Ala Ala Phe Ala Ala Gly Ile Leu Leu Ile Leu Phe Arg Trp
        35                  40                  45
Pro Leu Thr Gly Phe Leu Ile Glu Leu Tyr Gly Leu Phe Ile Leu Phe
    50                  55                  60
Gly Asp Phe Leu Val Thr Ile Gly Gln Phe Ala Gly Asn Ile Pro Val
65                  70                  75                  80
Val Gly Pro Tyr Ile Lys Thr Ala Leu Glu Thr Leu Ala Gly Gly Arg
                85                  90                  95
Arg Asn Ala Glu Leu Pro Val
            100
```

<210> 25286
<211> 213
<212> PRT
<213> A.fumigatus

<400> 25286

```
Arg Pro Leu Arg Asp His Gly Phe Thr Gly Phe Ala Phe Tyr Ser Ser
1               5                   10                  15
Trp Ala Tyr His Ala Pro Asn Asn Ser Thr Val Asp Phe Ser Thr Gly
            20                  25                  30
Ala Arg Asp Ile Thr Pro Ile Phe Glu Leu Ala Lys Glu Leu Gly Met
        35                  40                  45
Tyr Met Ile Val Arg Pro Gly Pro Tyr Val Asn Ala Glu Ala Ser Ala
    50                  55                  60
Gly Gly Phe Pro Leu Trp Leu Met Thr Gly Glu Tyr Gly Ser Leu Arg
65                  70                  75                  80
Asn Asp Asp Pro Arg Tyr Thr Ala Ala Trp Thr Pro Tyr Phe Ala Asn
                85                  90                  95
Met Ser Gln Ile Thr Ser Lys Tyr Gln Val Thr Asp Gly His Asn Thr
            100                 105                 110
```

```
Leu Val Tyr Gln Ile Glu Asn Glu Tyr Gly Gln Gln Trp Ile Gly Asp
        115                 120                 125
Pro Lys Asn Arg Asn Pro Asn Lys Thr Ala Val Ala Tyr Met Glu Leu
    130                 135                 140
Leu Glu Ala Ser Ala Arg Glu Asn Gly Ile Thr Val Pro Leu Thr Ser
145                 150                 155                 160
Asn Asp Pro Asn Met Asn Ser Lys Ser Trp Gly Ser Asp Trp Ser Asn
                165                 170                 175
Ala Gly Gly Asn Val Asp Val Ala Gly Leu Asp Ser Tyr Pro Ser Val
            180                 185                 190
Ser Tyr Arg Pro Ile Ile Phe Tyr Leu Ile Cys Ser Asp Phe Gly Ser
        195                 200                 205
Ala Gly His Ala Thr
    210
```

<210> 25287
<211> 232
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (214),(230)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25287

```
Leu Ile Ile Met Thr Thr Ser Lys Lys Phe Ser Pro Leu Phe Pro His
1               5                   10                  15
Ser Cys Leu Ser Ser Arg Ala Val Pro Thr Thr Pro Gly Pro Val Leu
            20                  25                  30
Lys Val Asp Val Leu Arg Thr Pro Ala Leu Ser Leu Leu Thr Cys Ser
        35                  40                  45
Thr Asp Gly Asn Ile Gly Gln Arg Val Thr Ala Met Ser Leu Tyr Met
    50                  55                  60
Leu Tyr Gly Gly Thr Asn Trp Gly Ala Ile Ala Ala Arg Val Thr Ala
65                  70                  75                  80
Thr Arg Tyr Glu Tyr Ser Ala Pro Ile Ser Glu Asp Arg Ser Ile Gly
                85                  90                  95
Ala Lys Tyr Ser Glu Thr Lys Leu Leu Ala Leu Phe Thr Arg Thr Ala
            100                 105                 110
Lys Asp Leu Thr Met Thr Glu Ala Ile Gly Asn Gly Thr Gln Tyr Thr
        115                 120                 125
Thr Asn Thr Ala Val Arg Ala Phe Glu Leu Arg Asn Pro Gln Thr Asn
    130                 135                 140
Ala Gly Leu Tyr Val Thr Phe His Thr Asp Thr Thr Val Gly Gly Asn
145                 150                 155                 160
Gln Ala Phe Lys Leu His Val Asn Thr Ser Val Gly Ala Leu Thr Val
                165                 170                 175
Pro Lys Asn Glu Gly Leu Ile Gln Leu Asn Gly His Gln Ser Lys Ile
            180                 185                 190
Ile Val Thr Glu Phe Thr Leu Gly Lys Arg Asn Ile Leu Tyr Ser Thr
        195                 200                 205
Ala Glu Leu Leu Ser Xaa His Ser Glu Gln Glu Thr Gly Ser Ala His
    210                 215                 220
Met Arg Pro Gln Pro Xaa Glu Ala
225                 230
```

<210> 25288
<211> 194
<212> PRT
<213> A.fumigatus

<400> 25288
Pro Arg Phe Leu Leu Leu Ser Pro Ile Val Ala Leu Pro Ser Asp Ile
1 5 10 15
Thr Asp Ala Leu Lys Ile Ala Arg Leu Ala Ser His Trp Met Phe Gly
20 25 30
Leu Phe Ile Ala Ala Thr Val Leu Asn Phe Ile Leu Ile Phe Leu Ala
35 40 45
Pro Phe Ala Val Ser Ser Arg Pro Pro Gln Thr Ile Ser Pro Asp Pro
50 55 60
Ser Val Asn Glu Leu His Pro Pro His Arg Arg Arg Thr Phe Leu Phe
65 70 75 80
Leu Arg Ala Phe Pro Phe Leu Ile Leu Thr Phe Leu Ala Ala Leu Phe
85 90 95
Thr Ile Val Ala Ser Val Val Ala Thr Val Met Phe Ser Ile Phe Lys
100 105 110
Asn Val Phe Thr Ser Ser Gly Tyr Asp Leu Asn Ile Gly Ala Glu Leu
115 120 125
Gly Ser Arg Met Met Ala Phe Met Trp Ile Ala Ser Ala Val Asn Leu
130 135 140
Leu Ala Phe Ile Leu Glu Leu Gly Ser Cys Cys Ala Ala Cys Cys Gly
145 150 155 160
Gly Arg Lys Ala Arg Lys Glu Leu Lys Ser Leu Lys Lys Thr Glu Arg
165 170 175
Gly Ala Ile Asn Glu Lys Gly Ser Pro His Ser Pro Ala Thr Thr Val
180 185 190
Thr Gly

<210> 25289
<211> 112
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (44),(90)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25289
Gln Thr Ile Met Val Leu Trp Ser Leu Arg Ser Leu Ala Arg Ser Trp
1 5 10 15
Ser Phe Thr Thr Arg Asn His His Gln Thr Tyr Val Asn Ser Tyr Asn
20 25 30
Gln Ala Ile Glu Gln Leu Gln Glu Ala Gln Ala Xaa Asn Asp Ile Ala
35 40 45
Ser Gln Ile Ala Leu Lys Pro Leu Ile Asn Phe His Gly Gly Gly His
50 55 60
Leu Asn His Thr Leu Phe Trp Glu Asn Leu Ala Pro Lys Ser Ser Gly
65 70 75 80
Gly Gly Glu Pro Pro Ser Gly Ala Leu Xaa Arg Ala Ile His Glu Asn

```
                85                  90                  95
Tyr Gly Ser Leu Glu Asn Phe Gln Gly Lys Met Asn Pro Ala Leu Ala
            100                 105                 110
```

<210> 25290
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (130)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25290

```
Thr Tyr Phe Val Ala Phe Ala Ser Val Arg Leu Val Met Glu Ser Pro
1               5                  10                  15
Thr Ser Ser Ser Phe Ala Gly Gln Lys Arg Lys Ile Val Glu Met Ser
            20                  25                  30
Ser Asp Glu Glu Asp Ala Arg Pro Pro Thr Gly Phe Arg Arg Phe Ala
        35                  40                  45
Arg Ala Ser Ser Arg Ser Glu Ser Pro Pro Ser Phe Gly Leu Gly Ser
    50                  55                  60
Ala Arg Arg Asn Pro Trp Asn Val Asn Met Gln Ser Ala Thr Ala Ala
65                  70                  75                  80
Pro Arg Gly Gly Asn Ala Asn Ser Ser Lys Pro Ile Thr Gly Arg Gly
                85                  90                  95
Asn Ser Phe Ala Ala Arg Met Met Ala Lys Met Gly Tyr Lys Glu Gly
            100                 105                 110
Gln Gly Leu Gly Ala Ser Gly Gln Gly Ile Val Ala Pro Ile Glu Ala
        115                 120                 125
Gln Xaa Pro Pro Thr Gly Pro Gly Val Gly Leu Pro
    130                 135                 140
```

<210> 25291
<211> 347
<212> PRT
<213> A.fumigatus

<400> 25291

```
Arg Leu Ala Asn Cys Ala Val Trp Ile Asn Leu Ile Val Met Phe Ile
1               5                  10                  15
Thr Met Gly Gly Ala Ala Asn Ala Pro Pro Asn Tyr Ala Ala Ala Ser
            20                  25                  30
Ala Ser Ala Gly Ala Val Ile Asn Glu Ala Leu Ile Thr Pro Val Asn
        35                  40                  45
Gly Val Tyr Pro Pro Val Gln Thr Ser Gly Gly Leu Pro Glu Ala Gly
    50                  55                  60
Asn Phe Val Gly Ser Leu Asn Gly Ala Met Gln Ala Val Phe Ala Tyr
65                  70                  75                  80
Gly Gly Ala Met Val Phe Pro Glu Phe Met Ser Glu Met Lys Arg Pro
                85                  90                  95
Lys Asp Phe Leu Thr Ala Met Trp Ala Ala Gln Ala Phe Ile Tyr Phe
            100                 105                 110
Trp Tyr Met Phe Tyr Gly Leu Phe Met Tyr Gly Tyr Gln Gly Gln Tyr
        115                 120                 125
```

```
Asn Val Asn Pro Ser Tyr Leu Gly Ile Gly Ser Tyr Asn Ile Ser Thr
    130                 135                 140
Ala Gly Asn Val Phe Ala Met Val Ser Ala Ala Ile Ala Ala Gly Leu
145                 150                 155                 160
Tyr Gly Asn Ile Gly Leu Lys Gly Met Ser Ala Ala Lys Ser Phe Arg
                165                 170                 175
Arg Cys Val Asn Ala Val Leu Thr Val Leu Val Leu Tyr Asn Gln Val
            180                 185                 190
Phe Val Glu Leu Leu Arg Cys Pro Pro Leu Thr Thr Arg Gly Gly Lys
        195                 200                 205
Trp Phe Trp Val Ile Leu Val Pro Ile Tyr Trp Gly Ile Ala Phe Ala
    210                 215                 220
Leu Ala Ala Gly Ile Pro Asn Phe Ser Gly Leu Thr Ser Val Val Ala
225                 230                 235                 240
Ala Val Cys Ile Leu Gln Phe Thr Tyr Ser Phe Pro Pro Leu Leu Ala
                245                 250                 255
Leu Ala Tyr Trp Val Lys Arg Ala Ala Leu Arg Asp Gly Glu Gly Phe
            260                 265                 270
Asp Pro Ala Thr Gly Gln Thr Ile Leu His Asp Arg Ser Met Ser Arg
        275                 280                 285
Val Ile Arg Gly Phe Leu Ala Gln Arg Pro Lys Glu Leu Ala Met Ser
    290                 295                 300
Val Phe Asn Ile Phe Tyr Val Leu Gly Ala Leu Val Leu Ala Gly Met
305                 310                 315                 320
Gly Ala Tyr Ser Ala Ile Glu Ser Leu Ile Asn Ala Phe Ala Gln Ser
                325                 330                 335
Arg Thr Thr Ser Tyr Thr Cys Lys Ile Ser Ile
            340                 345
```

<210> 25292
<211> 218
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (50)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25292
Val Arg Asn Glu Tyr Gln Gln Ala Arg Thr Phe Gln Tyr Gln Val Asp
1               5                   10                  15
Ile His Asp Ala Val Gln Gly Lys Asn Leu Lys Thr Ile Thr Gly Gly
            20                  25                  30
Arg Tyr Thr Leu Gln Ala Asn Glu Thr Arg Thr Ile Arg Thr Thr Thr
        35                  40                  45
His Xaa Ser Asp Leu Asn Phe Trp Ser Trp Gly Tyr Gly Tyr Leu Tyr
    50                  55                  60
Asp Val Arg Thr Ser Leu Leu Leu Asn His His Ala Ile Asp Ser Val
65                  70                  75                  80
Lys Thr Arg Thr Gly Phe Arg Lys Thr Glu Phe Thr His Gly Ala Phe
                85                  90                  95
Lys Leu Asn Asp Arg Thr Leu His Leu Lys Gly Tyr Ala Gln Arg Thr
            100                 105                 110
Thr Asn Glu Trp Pro Ala Leu Gly Cys Ala Val Pro Pro Trp Leu Thr
        115                 120                 125
```

```
Asp Phe Ser Asn Ser Leu Val Leu Ala Ser Asn Ala Ala Leu Ile Arg
    130                 135                 140
Trp Met His Val Thr Pro Trp Lys Gln Asp Val Glu Ser Leu Asp Arg
145                 150                 155                 160
Leu Gly Leu Leu Gln Ala Leu Pro Ala Gly Asp Ser Glu Gly Asp Ala
                165                 170                 175
Thr Gly Arg Arg Trp Ala Gln Arg Thr Glu Leu Met Arg Asp Ala Ile
            180                 185                 190
Ile Tyr His Arg Asn Ser Pro Ser Val Ile Phe Tyr Glu Ala Gly Asn
        195                 200                 205
His Gly Ile Ser Glu Ala His Arg Ala Arg
    210                 215
```

<210> 25293
<211> 187
<212> PRT
<213> A.fumigatus

<400> 25293

```
Thr Ser Gly Ala Gly Gly Thr Ala Thr Phe Thr Thr Ser Gly Pro Arg
1               5                   10                  15
Tyr Ser Ser Thr Thr Thr Pro Ser Thr Pro Ser Arg Pro Ala Pro Ala
            20                  25                  30
Ser Ala Arg Pro Ser Ser Pro Thr Ala Arg Leu Ser Ser Thr Thr Ala
        35                  40                  45
Pro Ser Thr Ser Lys Ala Met Pro Asn Ala Gln Gln Thr Asn Gly Pro
    50                  55                  60
Pro Ser Ala Ala Pro Ser His Pro Gly Ser Pro Ile Ser Arg Thr Ala
65                  70                  75                  80
Ser Ser Ser Pro Val Thr Pro Pro Ser Ser Ala Gly Cys Thr Ser Pro
                85                  90                  95
His Gly Asn Lys Thr Ser Ser Arg Ser Ile Ala Trp Ala Cys Ser Arg
            100                 105                 110
Pro Cys Arg Arg Ala Thr Pro Lys Ala Thr Gln Gln Ala Gly Ala Gly
        115                 120                 125
Arg Ser Ala Arg Ser Ser Cys Ala Thr Gln Ser Ser Thr Thr Gly Thr
    130                 135                 140
Ala Pro Ala Ser Ser Ser Thr Lys Pro Ala Thr Thr Gly Ser Arg Arg
145                 150                 155                 160
Arg Thr Glu Arg Asp Glu Gly Ser Ala Gly Tyr Val Arg Pro Thr Arg
                165                 170                 175
Gly Ser Arg Gly Gly Ile Ala Arg Asp Ala Glu
            180                 185
```

<210> 25294
<211> 307
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (291)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25294

```
Ile Thr Gly Gln Ser Ala Ile Leu Leu Glu Asp Asn Tyr Arg Ser Ser
```

```
1               5                   10                  15
Gly Ser Ile Leu Arg Ser Ala Gln Asp Val Ile Glu Gln Asp Ser Ser
            20                  25                  30
Arg Pro Ser Arg Lys Leu Gln Pro Thr His Cys Pro Gly Thr Met Pro
        35                  40                  45
Val Leu Arg Lys Leu Pro Thr Ala Glu Ala Glu Ala Gln Trp Ile Val
    50                  55                  60
Leu Glu Ile Lys Arg Ser Met Ala Met Thr Gly Lys Leu Leu Asn Tyr
65                  70                  75                  80
Ser Asp Phe Ala Ile Leu Leu Arg Ser Ala Ala Leu Ser Arg His Ile
                85                  90                  95
Glu Ser Glu Met Gly Lys Gln Gly Val Pro Tyr Arg Met Val Gly Gly
            100                 105                 110
Leu Arg Phe Phe Asp Arg Val Glu Ile Lys Val Leu Leu Asp Tyr Leu
        115                 120                 125
Arg Val Ile Ser Asn Pro Gly Asn Ser Asp Ala Leu Leu Arg Ile Ile
    130                 135                 140
Asn Ile Pro Ser Arg Lys Ile Gly Glu Glu Ser Val Lys Thr Leu Met
145                 150                 155                 160
Asn Gly Ala Asp Thr Ala Lys Ile Pro Leu Trp Asn Phe Ile Lys Asp
                165                 170                 175
Val Ala Gln Gly Arg Arg Ser Thr Asp Lys Ser Leu Ser Lys Leu Thr
            180                 185                 190
Asp Gln Gly Leu Cys Thr Leu Val Gly Ile Ile Glu Ser Ser Arg Gln
        195                 200                 205
Lys Leu Leu Glu Cys Thr Asp Gly Ser Ala Pro Arg Lys Leu Leu Glu
    210                 215                 220
Phe Val Ile Lys Lys Leu Asn Phe Arg Glu Tyr Leu Thr Thr Thr Tyr
225                 230                 235                 240
Cys Gln Asn Glu Glu Asn Arg Trp Ala Asn Val Glu Glu Leu Leu Ala
                245                 250                 255
Gln Ala Gly Asp Val Ala Ala Thr Ala Ala Glu Lys Gly Gln Asp Asp
            260                 265                 270
Ser Leu Pro Glu Ile Gln Gly Leu Ala Gln Gln Gln Ala His Gln Gly
        275                 280                 285
Leu Lys Xaa Leu Ser Gln Phe Leu Ala Asn Val Ala Leu Ser Asn Glu
    290                 295                 300
Ile Pro Leu
305
```

<210> 25295
<211> 412
<212> PRT
<213> A.fumigatus

```
<400> 25295
Gln Ser Ser Gly Ser Val His Pro Ala Val Lys Thr Thr Asp Pro Ser
1               5                   10                  15
Lys Pro Met Pro Ser Pro Leu Asn Thr Ser Asp His Cys Arg Glu Asn
            20                  25                  30
Arg Gln Asp Asn Ser Ser Val Leu Gln Ser Pro Val Ser Pro Arg Ser
        35                  40                  45
Ser Val Lys Thr Ala Pro Pro Pro Asn His Ser Ser Thr Ser Arg Ile
    50                  55                  60
Val His Ala Pro Ser Pro Ser Lys Pro Ser Gly Ser Gly Gln Glu Ser
65                  70                  75                  80
```

```
Thr Thr Ser Ser Ala Gly Asp Arg Val Cys Gly Asp Pro Lys Gln His
                85                  90                  95
Asp Arg Gly Val Ile Ala Ile Ala Asn Asp Ile Gly Ala Arg Lys Leu
            100                 105                 110
Ser Asp Thr Gly Asp Ser Val Gln Ser Pro Thr Ser Ser Pro Val Ser
        115                 120                 125
Leu Leu Asp Ser Leu Gln Ser Met Ser Gly Asp Arg Thr Pro Gly His
    130                 135                 140
Arg Ile Met Pro Arg Thr Ser Ser Ile Asp Ser Ala Ile Ser Ser Leu
145                 150                 155                 160
Ser Ser Ala Ser Gln Pro His Lys Ser Ser Phe Asp Ala Ser Ala Val
                165                 170                 175
Ser Gln Ala Asp Ile Asp Arg Leu Ile Ala Thr Ala Gly Ser Thr Glu
            180                 185                 190
Ala Val Ile Ile His Leu Leu Lys Glu Lys His His Ala Ala Ser Gln
        195                 200                 205
Asn Ala Gln Leu Trp Arg Leu Val Asp Lys Gln Arg Thr Leu Ile Leu
    210                 215                 220
Gly Leu Asn Lys Asp Leu Glu Arg Ala Leu Lys Glu Lys Glu Arg Tyr
225                 230                 235                 240
Lys Lys Arg Ala Lys Glu Leu Gln Asn Ser Ile Pro Pro Val Pro Pro
                245                 250                 255
Thr Asn Asp His Ile Val Gln Ser Arg Ser Ala Asp Thr Ser Ala Ile
            260                 265                 270
Pro Ala Ser Arg Asp Leu Ser Lys Gln Glu Gln Ala Gln Gly Glu Ser
        275                 280                 285
Ser Glu Ala Lys Ser Thr Asn Ala Gly Met Gln Asp Leu Cys Asp Ser
    290                 295                 300
Ser Val Leu Ser Pro Asn Ala Lys Val Asp Arg Pro Ser Pro Ala Gly
305                 310                 315                 320
Ala Asp Ser Ser Arg Leu Glu Tyr Asn Phe Gly Lys Arg Ile Phe Ala
                325                 330                 335
Thr Arg Thr Ile Glu Glu Leu Asp Gln Glu Ser Lys Phe Ala Ile Ala
            340                 345                 350
Arg Leu Thr Ala Gly Arg Asn Val Ile Gly Glu Pro Asn Ser Leu Gly
        355                 360                 365
His Pro Ser Ser Thr Leu Asn Lys Thr Ser His Arg Met Lys Val Gln
    370                 375                 380
Lys Gly Ser Pro Thr Leu Pro Gly Ser Pro Pro Trp Pro Pro Glu Asn
385                 390                 395                 400
Arg Lys Lys His Lys Val Trp Leu Trp Lys Thr Thr
                405                 410
```

<210> 25296
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25296

```
Ser Ser Arg Pro Pro His Arg Cys Pro Ala Ser His Gly Phe Ser Pro
1               5                   10                  15
Ile Ala Ala Thr Glu Tyr Phe Thr Pro Ser Ile Gln Arg Leu Ser Arg
            20                  25                  30
Ile Asp Tyr Tyr Leu Gln Leu Met Tyr Ala Ser Trp Ser Ser Glu Gln
        35                  40                  45
Arg Val Leu Tyr Ala Thr Arg Ser Ser Pro Asp Ile Leu Val Phe Thr
```

```
    50                  55                  60
Ala Gly Gly Arg Ala Val Ser Gln
65                  70
```

<210> 25297
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25297

```
Tyr Gln Leu Tyr Glu Cys Thr Ile Leu Leu Thr Leu Phe Cys Val Ser
1               5                   10                  15
Ala Ile Asp Thr Lys Lys Gly His Cys Pro Ser Ser Ala Val Thr Val
            20                  25                  30
Ser Leu Thr Ser Pro Gln Gln Val Pro Ala Ala Glu Gln Arg Val Pro
        35                  40                  45
Val Ala Glu Ser His Arg Ser Leu Val Val Val Lys
    50                  55                  60
```

<210> 25298
<211> 174
<212> PRT
<213> A.fumigatus

<400> 25298

```
Leu Pro Arg Thr Phe Ala Pro Val Val Lys Thr Thr Asn Ala His Ser
1               5                   10                  15
Pro Glu Val Ala His Ala Phe Leu Lys Leu Asp Tyr Leu Gly Ile Val
            20                  25                  30
Met Thr Ile Thr Thr Thr Cys Ile Ser Val Thr Tyr Phe Ala Leu Tyr
        35                  40                  45
Ser Tyr Pro Ile Leu Gln Val Thr Tyr Ile Phe Leu Thr Val Leu Cys
    50                  55                  60
Ala Ala Thr Ile Phe Trp Val Ala Leu Asp Pro Arg Met Asp Gly Ala
65                  70                  75                  80
Arg Ala Gly Pro Trp Arg Ser Val Phe Ala Met Pro Leu Leu Ala Leu
                85                  90                  95
Gln Arg Pro Asp Ser Ala Asn Leu Leu Cys Lys Ala Ala Val Phe Phe
            100                 105                 110
Leu Leu Ala Thr Ser Gly Leu Ala Pro Ile Phe His Val Ile Trp Ala
        115                 120                 125
Glu Ala Ser Tyr Gly Leu Ile Arg Ile Pro Leu Asp Ser Leu Thr Val
    130                 135                 140
Thr Cys Ser Ser Tyr Ala Val Gly Thr Ala Val Tyr Val Thr Arg Phe
145                 150                 155                 160
Pro Glu Arg Phe Trp Pro Ala Arg Phe Asp Leu Ile Val Ser
                165                 170
```

<210> 25299
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25299

```
Ser Ala Thr Ala Asp Pro Ser Ser Pro Val Val Lys Thr Ser Ile Arg
1               5                   10                  15
```

```
Ser Glu Phe Val Tyr Tyr Phe Lys Phe Phe Ser Leu Phe Thr Lys Ile
            20                  25                  30
Leu Val Ser Ala Val Gly Gln Thr His Arg Pro Leu Pro Ser Ser Thr
        35                  40                  45
Lys Trp Leu Arg Pro Asn Ser Leu Leu Arg Leu Pro Pro Asp Ala Thr
    50                  55                  60
Tyr Glu Glu
65
```

<210> 25300
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25300

```
Val Ser Phe Ser Ser Ser Arg Met Asn Ile Ser Gln Ser Ser Phe Pro
1               5                   10                  15
Phe His Phe Pro Thr Cys Gln Ile Thr Pro Pro Arg Arg Pro Lys Gln
            20                  25                  30
Pro Arg Pro Ala Gln Gly Cys Met Val Ile Leu Ala Cys Phe Glu Lys
        35                  40                  45
Asp Ile Gly Gln Leu Lys Trp Ser Asn His Ile Ile Trp Ala Pro Thr
    50                  55                  60
Arg Arg
65
```

<210> 25301
<211> 201
<212> PRT
<213> A.fumigatus

<400> 25301

```
Asp Gly Arg Pro Val Tyr Ile Glu Lys Leu Gly Lys Ile Asp Leu Asn
1               5                   10                  15
Ala Met Tyr Lys Ile Thr Thr Ala Glu Arg Met Leu Gln Asn Leu Val
            20                  25                  30
Cys Glu Tyr Glu Lys Leu Ala Asp Pro Arg Leu Pro Ala Cys Ser Arg
        35                  40                  45
Lys Ala Gly Lys Leu Leu Glu Thr Cys Cys Ser Ile Met Asp Leu Lys
    50                  55                  60
Gly Val Gly Ile Thr Ser Val Pro Ser Val Tyr Gly Tyr Val Arg Gln
65                  70                  75                  80
Ala Ser Ala Ile Ser Gln Asn Tyr Tyr Pro Glu Arg Leu Gly Lys Leu
                85                  90                  95
Tyr Leu Ile Asn Ala Pro Trp Gly Phe Ser Ser Val Phe Asn Val Val
            100                 105                 110
Lys Gly Phe Leu Asp Pro Val Thr Val Gln Lys Ile His Val Leu Gly
        115                 120                 125
Ser Asn Tyr Lys Lys Glu Leu Leu Glu Gln Ile Pro Ala Glu Asn Leu
    130                 135                 140
Pro Val Glu Phe Gly Gly Thr Cys Glu Cys Ala Gly Gly Cys Glu Leu
145                 150                 155                 160
Ser Asp Met Gly Pro Trp Gln Glu Pro Glu Trp Ala Lys Pro Pro Lys
                165                 170                 175
Trp Ala Leu Pro Lys Glu Glu Gln Asp Val Val Val Phe Thr Arg Gly
            180                 185                 190
```

Trp Lys Glu Pro Arg His Gly Ala Pro
195 200

<210> 25302
<211> 101
<212> PRT
<213> A.fumigatus

<400> 25302
Leu Ser Ser Pro Cys Ile Phe Leu Lys Phe Asp Ser Thr Ile Leu Pro
1 5 10 15
Thr Met Ala Ala Val Ala Glu Asn Lys Pro Ala Thr Thr Ser Lys Tyr
20 25 30
Asp Asp Tyr Asp Phe Pro Thr Thr Ala Pro Glu Pro Gln Pro Gly His
35 40 45
Pro Gly His Thr Thr Pro Glu Gln Asp Ala Lys Val Asp Gln Leu Arg
50 55 60
Ser Glu Leu Glu Gln Leu Gly Tyr Thr Asp Arg Leu Asp Thr Leu Thr
65 70 75 80
Met Leu Arg Phe Leu Arg Ala Arg Lys Phe Asp Val Ala Ala Ala Lys
85 90 95
Ala Met Tyr Val Cys
100

<210> 25303
<211> 104
<212> PRT
<213> A.fumigatus

<400> 25303
Glu Pro Gly Ser Leu Met Trp Leu Pro Leu Arg Pro Cys Met Phe Val
1 5 10 15
Asp Arg Pro Ala Leu Leu Phe Ser Arg Val Thr Cys Leu Arg Arg Leu
20 25 30
Glu Ser Val Leu Trp Ile Leu Ser Ile Val Pro Leu Leu Met His Glu
35 40 45
Phe Val Thr Leu Thr Arg Phe Ile Asp Cys Glu Lys Trp Arg Lys Glu
50 55 60
Phe Gly Thr Asp Asp Leu Val Arg Thr Phe Asp Tyr Lys Glu Lys Pro
65 70 75 80
Gln Val Phe Gln Tyr Tyr Pro Gln Tyr Tyr His Lys Thr Asp Lys Val
85 90 95
Ser Leu Phe Phe Phe Leu Ala Ala
100

<210> 25304
<211> 125
<212> PRT
<213> A.fumigatus

<400> 25304
Ser Ser Asn Leu Asn Thr Ala Ala Ala Tyr Leu Val Lys Ser Leu Pro
1 5 10 15
Asp Val Lys Phe Asp Ile Gly Glu Met Tyr Ser Gly Ser Val Pro Ile
20 25 30
Asp Lys Gly Asn Lys Ser Arg Glu Leu Phe Phe Ile Phe Gln Pro Thr

```
        35                  40                  45
Ile Gly Glu Pro Val Asp Glu Val Thr Ile Trp Leu Asn Gly Gly Pro
    50                  55                  60
Gly Cys Ser Ser Leu Glu Gly Phe Phe Gln Glu Asn Gly Arg Phe Thr
65                  70                  75                  80
Trp Gln Pro Gly Thr Leu Ala Pro Val Glu Asn Pro Tyr Ser Trp Val
                85                  90                  95
Asn Leu Thr Asn Met Leu Trp Tyr Val Leu Pro Phe Gln Ala Val Ile
            100                 105                 110
Gln Glu Ile Thr Cys Pro Ile Ser Asp Ala His Arg Leu
        115                 120                 125
```

<210> 25305
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25305

```
Arg Thr Cys Cys Gly Met Cys Tyr Leu Ser Arg Pro Leu Phe Lys Arg
1               5                   10                  15
Leu His Val Arg Tyr Leu Met Arg Ile Asp Cys Asp Arg Val Asn Gln
            20                  25                  30
Pro Val Gly His Gly Phe Ala Thr Gly Lys Pro Asn Ala Thr Ser Gln
        35                  40                  45
Glu Glu Ile Ala Glu Asp Phe Ile Lys Phe Phe Lys Asn Phe Gln Glu
    50                  55                  60
Ile Leu Val Ser Lys Thr Ile Lys Ser Met Phe Thr Ala Arg Val Thr
65                  70                  75                  80
Gln Ala Ala Met Phe Leu Lys Ser Ser Ala Gln Cys Trp Asp Arg
                85                  90                  95
```

<210> 25306
<211> 104
<212> PRT
<213> A.fumigatus

<400> 25306

```
Ser Ser Pro Val Pro Ala Ser Leu Ser Phe Pro Ser Leu Ile Ser Pro
1               5                   10                  15
Leu Pro Cys Pro Val Glu Met Leu Phe Gly Ser Val Ala Ser Thr Ala
            20                  25                  30
Leu Leu Ala Leu Ser Leu Cys Leu Asp Ser Ala Ser Ala Ala Lys His
        35                  40                  45
Gly Arg Phe Gly Gln Lys Ala Arg Asp Ser Leu Ala Lys Arg Ser Ser
    50                  55                  60
Ser Ser Leu Val Thr His Glu Pro Glu Thr Arg Ser Arg His Lys Asp
65                  70                  75                  80
Phe Arg Phe Leu Asn Lys Asp Thr Lys Arg Met Tyr Ile Phe Val Leu
                85                  90                  95
Pro Ala Leu Glu Leu Met Ile Val
            100
```

<210> 25307
<211> 189
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (132)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25307
Ser Thr Arg Ala Phe Phe Ile Cys Lys Leu Glu Ser Thr Asp Ile Asn
1 5 10 15
Thr Met Arg Ala Asn Trp Arg Thr Thr Arg Leu Leu His Gly Val Arg
20 25 30
Ala Ile Ile Gly Gly Gln Gly Pro Pro Leu Val Leu Ile Pro Asp Trp
35 40 45
Pro Gln Thr Ala Glu Ala Phe Ser Gly Ile Phe Glu Pro Leu Ser Lys
50 55 60
Arg Tyr Arg Phe Leu Ala Leu Asp Pro Pro Gly Leu Gly Asp Ser Pro
65 70 75 80
Pro Pro Leu Asn Gly Tyr Asp Thr Gly Asn Val Ser Lys Val Met Val
85 90 95
Glu Ala Ile His Asp Thr Leu Lys Tyr Arg Pro Tyr His Leu Val Gly
100 105 110
His Asp Val Gly Gly Trp Ile Ala Tyr Pro Trp Ala Ala Gln Phe Arg
115 120 125
Ser Arg Val Xaa Ser Leu Ser Ile Leu Asp Ala Ser Val Pro Gly Phe
130 135 140
Gln Pro Gln Leu Gln Phe Pro Leu Pro His Pro Thr Lys Leu Arg Leu
145 150 155 160
Trp Gln Phe Ser Phe Asn Ala Leu Pro Glu Leu Pro Glu Ile Leu Thr
165 170 175
Pro Arg Arg Asn Arg Glu Leu Leu Thr Cys Phe Phe Ile
180 185

<210> 25308
<211> 133
<212> PRT
<213> A.fumigatus

<400> 25308
Ile Phe Leu Ser Ala Pro Trp Val Pro Ser Ala His Pro Ser Ile Phe
1 5 10 15
Thr Gln Cys Phe Ala Met Ala Phe Asn Phe Asn Trp Ser Pro Leu Met
20 25 30
Ala Asp Ala Ser Phe Tyr Thr Arg Ala Gln Asp Leu Leu Thr Ala Ala
35 40 45
Leu Asn Lys Ser Pro Lys Pro Pro Ile Ile Val Asp Asp Ile Ile Val
50 55 60
Thr Glu Leu Asn Leu Gly Ser Ile Pro Pro Glu Leu Glu Ile Leu Glu
65 70 75 80
Ile Gly Asp Leu Ala Glu Asp Arg Phe Arg Gly Ile Phe Lys Met Ser
85 90 95
Tyr Ser Gly Asp Ala Phe Leu Thr Leu Lys Thr Arg Val Gln Ala Asn
100 105 110
Pro Leu Asn Thr Tyr Leu Leu Thr Arg Pro Ser Phe Ala Thr Pro Arg
115 120 125
Pro Leu Ala Ala Ala
130

<210> 25309
<211> 389
<212> PRT
<213> A.fumigatus

<400> 25309
Gln Tyr Leu Ser Lys Ser Leu Phe Pro Ile Ser Asn Tyr Pro Ala Leu
1 5 10 15
Ser Ser Leu Val Phe Ser Lys Gln Lys Gly Ile Thr Val Val Phe Arg
20 25 30
Asn Asp Pro Leu Glu Ser Leu Lys Val Ser Ser Thr Phe Asp Ser Ile
35 40 45
Pro Phe Val Arg Asp Phe Leu Gln Lys Glu Ile Glu Ala Gln Leu Arg
50 55 60
Ile Leu Phe Met Asp Glu Leu Pro Ala Ile Ile His Arg Leu Ser Leu
65 70 75 80
Arg Leu Trp Val Pro Glu Tyr Arg Ala Gly Glu Glu Leu Gln Thr Gln
85 90 95
Thr Ala Ser Ala Asn Gly Glu Gly Pro Gly Gln Asp Pro Leu Ala Ser
100 105 110
Pro Pro Gln Asp Pro Val Asp Ala Leu Gly Asn Ala Leu Asn Glu Ser
115 120 125
Glu Ile Glu Ser Leu Ser Leu Asp Ser Ser Val Glu Thr His Thr Leu
130 135 140
Phe Ser Gln Lys Asn Leu Leu Arg Leu Ala Ala Leu Thr Asp Ser Gln
145 150 155 160
Arg Thr Leu Ser Leu Phe Thr Pro Ser Ile Arg Glu Val Val Tyr Arg
165 170 175
Ala Trp Thr Ser Pro Ser Asp Gln Thr Asp Ala Ser Gly Ser Val Thr
180 185 190
Ser Pro Phe Phe Pro Val Leu Ser Arg Thr Leu Ser Gln Val Gly Ser
195 200 205
Met Ser Ser Phe Pro Asp Ser Ala Ser Met Val Ser Ser Gln Ser Arg
210 215 220
Ser Ser Thr Pro Ser His Thr Phe Ser Gly Tyr Gly Leu Ser Leu Gly
225 230 235 240
Ala Asp Arg His Ser Lys Ala His Ala Arg Lys Arg Lys Lys Arg Val
245 250 255
Val Asp Met Arg Arg Pro Lys Thr Thr Asp Asp Ala Pro Ser Val Ser
260 265 270
Asp Glu Ser Ser Phe Thr Glu Ser Thr Ser Ala Pro Ser Ile Cys Ser
275 280 285
Ala Pro Leu Pro Val Leu Asp Glu Gln Thr Asp Asp Pro Val Thr Pro
290 295 300
Pro Leu Ser Pro Asp Asn Asp Leu His Leu Pro Ala Ile Pro Glu Arg
305 310 315 320
His Arg Met Ser Ile Ser Arg Pro Ala Leu Arg Arg Glu Asn Ala Ser
325 330 335
Glu Met Ile Arg Asp Thr Ala Glu Cys Lys Pro Ser Ser Asn Ala Val
340 345 350
Gly Gln Ala Ile Gln Glu Glu Asp Leu Ser Ala Thr Pro Arg Ala Ala
355 360 365
Val Arg Ala His Gly Ala Ser Val Leu Glu Lys Gly Lys Gln Asp Pro
370 375 380
Asp Ser Ser Ala Gly

385

<210> 25310
<211> 246
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (208),(227),(233)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25310
Ala Ser Leu Ile His Gly Gly Ala Trp Arg Asp Pro Thr Gln Thr Ala
1 5 10 15
Ala Ser Tyr Val Ala Pro Ala Glu Ser Ile Leu Thr Thr Ser Pro Thr
20 25 30
Tyr Thr Ser Thr Thr Leu Pro His Ile Ala Ala Phe Ala Ser Ile Glu
35 40 45
Tyr Arg Leu Ser Ala His Pro Ser Tyr Pro Gln Asn Pro Asp His Leu
50 55 60
Asp Ser Thr Glu Tyr Arg Asn Ala Lys His Pro Asp His Ile Arg Asp
65 70 75 80
Val Gln Ala Ala Leu Ala Leu Leu Gln Arg Lys Tyr Gly Phe Gly Ser
85 90 95
Lys Tyr Ile Leu Val Gly His Ser Ala Gly Ala Thr Leu Ala Phe Gln
100 105 110
Ser Val Met Gly Thr Phe Arg Asp Ser Ala Ala Ala Val Ala Ser Pro
115 120 125
Pro Val Ala Ile Leu Gly Met Ala Gly Ile Tyr Asp Leu Arg Leu Leu
130 135 140
Arg Asp Thr His Arg Asp Ile Ser Ala Tyr Gln Glu Phe Ile Glu Gly
145 150 155 160
Ala Phe Gly Ser Asp Glu Ala Val Trp Asp Ala Ala Ser Pro Ala Phe
165 170 175
Val Lys Gly Ser Gln Gly Val Glu Gly Gly Trp Thr Ser Gly Arg Leu
180 185 190
Ala Val Leu Ala His Ser Ala Glu Asp Gly Leu Val Asp Ala Ala Xaa
195 200 205
Gln Lys Ala Met Gln Ala Ala Leu Ser Arg Trp Glu Asp Asn Thr Pro
210 215 220
Gln Gly Xaa Gly Gln Arg Arg Val Xaa Met Leu Ser Leu Lys Asp Asp
225 230 235 240
His Asp Asp Ala Trp Met
245

<210> 25311
<211> 388
<212> PRT
<213> A.fumigatus

<400> 25311
Arg His Ala Lys Ile Asp Val Thr Ser Ser Leu Gly Leu Ile Arg Val
1 5 10 15
Thr Gly Thr Glu His Thr Cys Glu Ser Ile Arg Glu Ile Ile Tyr Asp
20 25 30

```
Ala Thr Asn Arg Ile Arg Gln Glu Asp Val Asp Leu Pro Thr Pro Asn
        35                  40                  45
His Ala Thr Ser Lys Ser Gly Arg Thr Leu Thr Pro Asp Phe Leu Ala
    50                  55                  60
Trp Val Ser Lys Thr Tyr Gly Val Ala Phe Glu Gln Asn Pro Ser Gln
65                  70                  75                  80
Gly Val Ile Lys Met Phe Tyr Leu Ala Glu Asn Arg Glu Asp Ala Asp
                85                  90                  95
Asn Ala Arg Arg Thr Leu Asn Leu Ala Ile Tyr Asn Thr Ile Ser Pro
            100                 105                 110
Ala Ile Pro Phe Gly Thr Tyr Leu Ser Ala Ala Gln Ser Ala Ser Val
        115                 120                 125
Tyr Asn Val Asp Pro Glu Gln Asn Val Leu Trp Phe Asp Arg Gln Lys
    130                 135                 140
Val Trp Phe Arg Trp Ala Met Ser Ser Thr Gln Ser Ser Glu Thr Lys
145                 150                 155                 160
Ile Leu Asp Thr Pro Tyr Phe Asp Lys His Gln Ser Leu Leu Ser Asp
                165                 170                 175
Glu Leu Leu Lys Leu Leu Arg Lys Ser Ser Pro Ser Ser Glu Cys His
            180                 185                 190
Gly Ile Ser Glu Thr Val Ile Ala Ala Ile Gly Gln Cys Leu Phe Leu
        195                 200                 205
Arg Lys Pro Ser Phe Glu Ile Gln Thr Leu Ser Ala Pro Gln Leu Gly
    210                 215                 220
Lys Leu Asn Leu Pro Arg Thr Phe Thr Thr Asp Val Pro Arg Val Thr
225                 230                 235                 240
Ser Phe Leu Arg Thr Leu Lys Pro Arg Leu Leu Asp Asp Asp Gln Gln
                245                 250                 255
Cys Tyr Ile Phe Gln Leu Ile Pro Thr Pro Ala His Ala Asn Ile Phe
            260                 265                 270
Pro Arg Leu Glu Val Glu Val Thr Leu Pro Gly Leu His Pro Ser Ser
        275                 280                 285
Val Ser Asp Ala Gln Ile Glu Ile Arg Ser Val Lys Ala Glu Leu Ala
    290                 295                 300
Glu Ser Ser Val Asp Tyr Leu Leu Pro Glu Asn Gly Leu Asp Leu Arg
305                 310                 315                 320
Phe Thr Arg Lys Leu His Arg Asp Leu Leu His Gly His Ser Glu Asn
                325                 330                 335
Glu Ser Ala Ala Asn Val Thr Val Glu Ser Leu Arg Glu Tyr Leu Gln
            340                 345                 350
Gly Val Phe Ser Arg Tyr Met Asn Asn Glu Gly Glu Ala Pro Leu Pro
        355                 360                 365
Ala Phe Thr His Val Pro Leu Pro Asn Asn Leu Leu Lys Gly Thr Phe
    370                 375                 380
Ser Arg Lys Pro
385
```

<210> 25312
<211> 152
<212> PRT
<213> A.fumigatus

<400> 25312

```
Val Val Gly Ala Ser Asp Glu Phe Thr Lys Gly Met Leu Leu Cys Pro
1               5                   10                  15
Val Phe Tyr Leu Ile Ile Glu Leu Ala Asp Tyr Val Arg Leu Leu Gln
```

```
            20                  25                  30
Phe Arg Val Asp Lys Arg Thr Gly Asn Ser Val Ala Ile Lys Val Ile
        35                  40                  45
Asp Val Glu Asn Ala Glu Asp Glu Val Glu Asp Ile Ile Gln Glu Ile
    50                  55                  60
Ala Ile Leu Ser Glu Leu Asp Ser Pro Tyr Val Thr Lys Tyr His Gly
65                  70                  75                  80
Ser Phe Leu Lys Gly Ser His Leu Trp Ile Val Met Glu Phe Cys Ser
                85                  90                  95
Gly Gly Ser Cys Ser Asp Leu Leu Arg Pro Gly Pro Ile Pro Glu Asp
            100                 105                 110
Tyr Ile Met Ile Ile Met Arg Glu Leu Leu Arg Gly Leu Asp Tyr Leu
        115                 120                 125
His Thr Asp Lys Lys Leu His Arg Asp Val Lys Gly Thr Leu Arg Ser
    130                 135                 140
Ser Phe Glu Thr Gln Leu Gly Ser
145                 150
```

<210> 25313
<211> 239
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (206),(228)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25313

```
Gln Ile Arg Thr Ala Ala Asn Ile Leu Leu Thr Ser Asn Gly Gln Val
1               5                   10                  15
Lys Leu Ala Asp Phe Gly Val Ser Ser Gln Leu Ser Ala Thr Met Thr
            20                  25                  30
Lys Lys Asn Thr Phe Val Gly Thr Pro Phe Trp Met Ala Pro Glu Val
        35                  40                  45
Ile Lys Gln Ser Gly Tyr Asp Tyr Lys Ala Asp Ile Trp Ser Leu Gly
    50                  55                  60
Ile Thr Ala Ile Glu Leu Ala Gln Gly Glu Pro Pro Tyr Ser Asp Ile
65                  70                  75                  80
His Pro Met Lys Val Leu Phe Leu Ile Pro Lys Asn Pro Pro Pro Thr
                85                  90                  95
Leu Gln Gly Pro Phe Ser Lys Thr Phe Lys Asn Phe Val Glu Leu Cys
            100                 105                 110
Leu Arg Arg Asp Pro Arg Glu Arg Pro Ser Ala Lys Glu Leu Leu Glu
        115                 120                 125
His Pro Phe Val Lys Arg Ala Arg Arg Thr Thr Tyr Leu Thr Glu Leu
    130                 135                 140
Ile Glu Arg Tyr Glu Gly Trp Gln Ile Arg Asn Gly Val Gln Asn Gly
145                 150                 155                 160
Gly Val Asp Glu Asp Cys Val Gln Asp Leu Pro Ser Asn Asp Lys Asp
                165                 170                 175
Arg Glu His Glu Glu Asp Leu Trp Asp Phe Gly Thr Val Arg Pro Val
            180                 185                 190
Gly Arg Thr Thr Ala Met Gly Pro Met Lys Glu Ala Asp Xaa Asn Thr
        195                 200                 205
Arg Asn His Asn Thr Thr Ala Trp Asn Phe Gln Asp Lys Ser His Glu
```

```
    210                 215                 220
Glu Val Met Xaa Ser Ser Arg Pro Gln Pro Asp Tyr Pro Lys Lys
225                 230                 235

<210> 25314
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25314
Ser Ser Val Cys Tyr Ala Gly Cys Asp Ser Lys Met Pro Ile Ser Arg
1               5                   10                  15
Cys Lys Val Gln Ile Asn Ile Gly His Val Thr Asp Lys Ile Gln Lys
            20                  25                  30
Ile Lys Leu Lys Ser Met Asn His Ile Pro Thr Asn Thr Asn Arg Pro
        35                  40                  45
Gln Ser Arg Asp Thr Asp Val Ser His Pro Ile Ile Arg Arg Gln Thr
    50                  55                  60
Ala
65

<210> 25315
<211> 238
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (211),(227)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25315
His Thr Pro Val Ala Ser Val Leu Ser Pro Met Asp Ser Met Thr Asp
1               5                   10                  15
Ser Ser Asn Ser Leu Arg Ser Ser Asp Leu Pro Glu Met Phe Arg Pro
            20                  25                  30
Pro Val Asn Arg Ala Met Arg Val Leu Asp Arg Ser Phe Phe Arg Lys
        35                  40                  45
Thr Val Pro Leu Ser Ala Ala Ala Val Phe Gln Asn Ser Asp Ile Ser
    50                  55                  60
Lys Val Arg Ala Glu Leu His Lys Ser Arg Asp Leu Leu Ala Val Pro
65                  70                  75                  80
Arg Leu Asn Cys Ile Arg Asp Val Ala Asp Gln Glu Gly Gln Ile Lys
                85                  90                  95
Lys Ala Leu Leu Leu Arg Glu Thr Val Lys His Asp Asp Lys Glu Thr
            100                 105                 110
Trp Ser Pro Lys Ile Ser Glu Leu Val Glu Lys Gly Arg Ile Ala Met
        115                 120                 125
Arg Pro Tyr Asp Leu Thr Leu Asp Tyr Asp Phe Trp Thr Tyr Ala Asp
    130                 135                 140
Ile Ile Ser Ser Ile Leu Pro Glu Asp Glu Leu Gln Glu Ile Pro Gln
145                 150                 155                 160
Gly Phe Thr Gln Val Gly His Val Leu His Leu Asn Leu Arg Glu Gln
                165                 170                 175
Tyr Leu Pro Tyr Lys Tyr Leu Ile Ala Glu Ile Leu Arg Asn Lys Tyr
            180                 185                 190
```

```
Arg Val Ile Arg Thr Trp Ile Asn Lys Thr Gly Asp Val Gly Ser His
        195                 200                 205
Ser Glu Xaa Arg Thr Phe Pro Phe Glu Phe Leu Gly Gly Asp Asn Asp
    210                 215                 220
Leu Asn Xaa Val Pro Ala Arg Ala Gly Leu Arg Val Pro Leu
225                 230                 235
```

<210> 25316
<211> 246
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(245)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25316

```
Met Xaa Ser Gln His Glu Gln Asp Cys Glu Phe Arg Phe Asp Tyr Ser
1               5                   10                  15
Arg Val Tyr Trp Asn Ser Arg Leu Glu Thr Glu His Arg Arg Leu Val
            20                  25                  30
Glu Lys Phe Asn Lys Gly Glu Met Val Cys Asp Val Met Ala Gly Val
        35                  40                  45
Gly Pro Phe Ala Val Pro Ala Gly Lys Lys Lys Ile Phe Val Trp Ala
    50                  55                  60
Asn Asp Leu Asn Pro His Gly Tyr Glu Val Met Gln Asp Ala Ile Lys
65                  70                  75                  80
Arg Asn Lys Val Glu Gly Phe Val Thr Pro Phe Asn Met Asp Gly Arg
                85                  90                  95
Glu Phe Ile Arg Trp Ser Ala Lys Glu Leu Leu Glu Thr Glu Pro Val
            100                 105                 110
Thr Val Thr Ile His Pro Lys Val Arg Arg Asp Arg Lys Ser Gly Asn
        115                 120                 125
Lys Val Glu Gln Ala Pro Pro Pro His Pro Glu Glu Tyr His Arg Pro
    130                 135                 140
Val Phe Phe Asp His Tyr Val Met Asn Leu Pro Ala Thr Ala Ile Glu
145                 150                 155                 160
Phe Leu Asp Ala Phe Pro Gly Ile Tyr Ala Gly Lys Glu Ser Leu Phe
                165                 170                 175
Ala Pro His Thr Ser Gln Arg Leu Pro Met Val His Val Tyr Cys Phe
            180                 185                 190
Ser Gly His Ser Glu Asn Glu Leu Asp Asp His Ile Asp Ile Cys Gln
        195                 200                 205
Arg Ile Ser Glu Arg Ile Gly Tyr Thr Ile Thr Pro Glu Asp Arg Ile
    210                 215                 220
Gly Gly Ser Gly Asn Gln Ser Val Glu Arg Ile Ser Arg Pro Gly Trp
225                 230                 235                 240
Asp Val Arg Val Xaa Gln
                245
```

<210> 25317
<211> 221
<212> PRT
<213> A.fumigatus

<400> 25317
Ile Leu Ile Glu Ile Ser Arg Met Ala Thr Gly Thr Ser Ala Asn Arg
1 5 10 15
Cys Glu Val Arg Ala Cys Gln Arg Cys Arg Lys Leu Lys Val Gly Cys
20 25 30
Asp Lys Ala Lys Pro Ala Cys Arg Arg Cys Ile Lys Ala Gly Met Arg
35 40 45
Cys Val Val Pro His Ala Gly Ser Asn Lys Ala Asp Arg Ala Ser Thr
50 55 60
Asn Cys Asp Lys Ser Ile Leu Thr Asp Gly Leu Asp Asp Ser Leu Arg
65 70 75 80
Asn Arg Asp Glu Val Arg Leu Ala Arg Cys His Cys Cys Pro Pro Leu
85 90 95
Thr Ala Val Gln Leu Thr Gly Ser Ser Ile Ser Asp Lys Asn Gly Pro
100 105 110
Phe His Ser Pro Ser Ser Tyr His Lys Leu Thr Pro His Lys Arg Asn
115 120 125
Arg Asn Pro Val Ser Cys Ile Arg Cys Arg Arg Leu Lys Val Arg Cys
130 135 140
Asp Arg Gln Gln Pro Cys His Ser Cys Thr Lys Ala Lys Ala Val Cys
145 150 155 160
Ala Tyr Gly Arg Ser Ser Gly Ile His Arg Asp Ser Asp Gly Glu Ser
165 170 175
Phe Ala Asp Asp Ser Ser Ala Ala Val Arg Phe Ala Ala Trp Ser Asp
180 185 190
Arg Phe Arg Thr Asp Thr His Trp Ile Thr Leu Val Arg Glu Val Cys
195 200 205
Pro Val Val His Pro Ser Met Gly Ser Ser Glu His Cys
210 215 220

<210> 25318
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25318
Gly His Ser Arg Arg Pro Ala Gly Gly Glu Lys Lys Ser Arg Gly Phe
1 5 10 15
Gly Arg Ser Lys Ala Val Ala Asp Val Gly Asp Gly Arg Gln Thr Gly
20 25 30
Gly Lys Pro Gln Val Lys Lys Ala Thr Phe Glu Ser Thr Lys Lys Lys
35 40 45
Glu Ile Gly Val Ser Asp Leu Thr Leu Leu Ser Lys Ile Ser Asn Glu
50 55 60
Ala Ile Asn Asp Asn Leu Lys Leu Arg Phe Glu His Asp Glu Ile Tyr
65 70 75 80
Val Ser Ile His Ser Pro
85

<210> 25319
<211> 140
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (25),(45),(66)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25319
Leu Ala Asp Leu Glu Ile Phe Ala Leu Leu Arg Ala Cys Ala Asp Ile
1 5 10 15
Asp Ser Ser Asp Asp Arg His Ile Xaa Ala Thr Cys Trp Cys Pro Ser
20 25 30
Thr Leu Ser Glu Thr Val Ser Leu Tyr Arg Ala Met Xaa Cys Arg Gln
35 40 45
Arg Arg Val Ala Asp Ile Val Ala Ser Gln Trp Val Ser Thr Pro Thr
50 55 60
Met Xaa Ser Ser Leu Ile Glu Ala Lys Ile Asp Ser Lys Cys Pro Pro
65 70 75 80
His Val Phe Ala Val Ala Glu Ser Ala Tyr Tyr Asn Met Lys Thr Tyr
85 90 95
Lys Asp Asn Pro Cys Leu Asn Asn Leu Arg Glu Val Gly Gly Arg Lys
100 105 110
Lys Pro Lys Leu Pro Asn Arg Ile Ile Ala Ile Pro Trp Pro Arg Asp
115 120 125
Phe Gly Gly Thr Asp Leu Ser Tyr Pro Ala Tyr Pro
130 135 140

<210> 25320
<211> 121
<212> PRT
<213> A.fumigatus

<400> 25320
Glu Gly Asp Ala Ala Val Ser Gly Ser Gly Asp Leu Ala Phe Asp Val
1 5 10 15
Ala Leu Gly Ala Asp Leu Val Ser Pro His Met Ile Ile Gln Asn His
20 25 30
Phe Leu Gly Phe Val Ala Ala Asp Leu Cys Leu Ala Ile Tyr Asn Ala
35 40 45
Gln Asn Ile His Tyr Ala Arg Asn Arg Ala Thr Asn Leu Ala Asn Gly
50 55 60
Lys Lys Ile Tyr Asp Val Asp Leu Val Pro Leu Leu Leu Ser Thr Phe
65 70 75 80
Arg Asp Leu Phe Glu Asn Tyr His Leu Arg Glu Phe Ile Ile Ala Ala
85 90 95
Thr Leu Arg Asn Gln Asp Thr Phe Gln Thr Phe Leu Lys Ala Cys Arg
100 105 110
Glu Cys Leu Ala Ser Ile Gln Ser Asn
115 120

<210> 25321
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25321
Arg Pro Lys Trp Leu Ala Ala Trp Leu Asn Ala Asp Asp Ile Glu Gln
1 5 10 15
Ala Pro Pro Phe Ser Phe Arg Asn Met Gly Thr Leu Ala Tyr Ile Gly
20 25 30

```
Asp Ala Arg Ala Leu Met Gln Leu Pro His Glu Asp Gly Arg Arg Tyr
        35                  40                  45
Lys Tyr Leu Pro His Gly Leu Thr Gly Arg Met Ala Trp Leu Val Trp
    50                  55                  60
Asn Ser Ala Tyr Leu Thr Met Ser Ile Ser Trp Arg Asn Arg Leu Arg
65                  70                  75                  80
Val Ala Phe Arg Trp Leu Leu Asn Asn Leu Phe Gly Arg Asp Val Ser
                85                  90                  95
Arg Tyr
```

<210> 25322
<211> 125
<212> PRT
<213> A.fumigatus

<400> 25322

```
Leu Arg Gln Glu Lys Met Ala Tyr Thr Thr Val Ser Gln Arg Lys Leu
1               5                   10                  15
Ala Glu Leu Asp Ala Lys Ile Pro Ala Glu Trp Arg Leu Ser Ala Ser
            20                  25                  30
Gln Ile Pro Pro Gly Met Leu Ser Pro Ala Glu Ser Ile Thr Asn Val
        35                  40                  45
Lys Gln Tyr Gly Arg Val Asn Val Met Asp Ile Pro Arg Thr Cys Gly
    50                  55                  60
Leu Leu Ser Ala Arg Glu Leu Gln Ile Thr Glu Asp Tyr Asp Val Arg
65                  70                  75                  80
Gly Leu Leu Arg Ala Met Ala Asp Asn His Leu Thr Ala Glu Glu Val
                85                  90                  95
Thr Thr Ala Phe Cys Lys Val Arg Cys Pro Ser Pro Ser Phe Leu Phe
            100                 105                 110
Phe Phe Phe Phe Phe Phe Phe Leu Gln Ala Lys Lys Arg
        115                 120                 125
```

<210> 25323
<211> 186
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (136)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25323

```
Arg Ser Leu Glu Ser Ser His Arg Ala Pro Thr Asp Pro Leu Pro Asn
1               5                   10                  15
Arg Thr Ala Val Arg Pro Arg Arg Pro Ala Arg Ala Arg Ala Arg Arg
            20                  25                  30
Leu Pro Ala Pro His Arg Pro Pro His Arg Ala Leu Ala Arg Ala Pro
        35                  40                  45
Arg Leu Arg Gln Gly Leu Leu Pro His Gln Arg Cys Arg Leu Gln His
    50                  55                  60
Arg Asp Arg Arg Pro Arg Arg Pro Pro Gly Glu Arg Arg Ser Pro Pro
65                  70                  75                  80
Glu Ser Thr Pro His Arg Pro Gly Ala His Arg Pro Asp Gln Lys Gln
```

```
                85                  90                  95
Arg Pro Pro Asp Gln Trp Ala Pro Arg Gln Arg Gln Ile Arg Leu Pro
            100                 105                 110
Ala Asp Ala Glu Thr Gly Gln Thr Arg Pro His Gly Gly Gly Ser Pro
        115                 120                 125
Arg Arg Gln Gly Ile Leu Gly Xaa Leu Pro Arg Phe Leu Val Gly Phe
    130                 135                 140
Arg Pro Glu Phe Arg Arg Glu Leu Pro Gly Phe Pro Ala Ser Phe Trp
145                 150                 155                 160
Val Phe Phe Gly Ser His Pro Asn Leu Gly Gly Arg Phe Pro Phe Gly
                165                 170                 175
Gly Gln Glu Gly Arg Pro Asn Ser Leu Val
            180                 185
```

<210> 25324
<211> 186
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (133)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25324

```
Arg Ala Ala Ile Ala His Gln Leu Thr Arg Cys Leu Thr Glu Pro Leu
1               5                   10                  15
Phe Asp Arg Ala Val Gln Arg Ala Arg Glu Leu Asp Ala Tyr Leu His
            20                  25                  30
Arg Thr Gly Arg Pro Ile Gly Pro Leu His Gly Leu Pro Val Ser Val
        35                  40                  45
Lys Asp Cys Phe His Ile Lys Asp Val Asp Ser Ser Ile Gly Ile Ala
    50                  55                  60
Ala Leu Val Ala Arg Pro Ala Asn Glu Glu Ala Pro Leu Asn Gln Leu
65                  70                  75                  80
Leu Thr Ala Leu Gly Arg Ile Val Leu Thr Lys Asn Asn Val Pro Gln
                85                  90                  95
Thr Asn Gly Arg Leu Asp Ser Ala Lys Phe Val Phe Arg Arg Thr Leu
            100                 105                 110
Lys Pro Val Lys Arg Ala Leu Thr Val Gly Ala Pro Pro Ala Ala Lys
        115                 120                 125
Gly Phe Leu Ala Xaa Cys Pro Gly Ser Trp Trp Gly Ser Gly Pro Asn
    130                 135                 140
Phe Ala Gly Asn Ser Pro Gly Ser Arg Gln Val Phe Gly Cys Phe Leu
145                 150                 155                 160
Val Pro Thr Gln Thr Leu Gly Gly Val Ser Pro Leu Ala Ala Arg Lys
                165                 170                 175
Ala Gly Pro Ile Pro Trp Phe Lys Gly Gly
            180                 185
```

<210> 25325
<211> 237
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (52)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25325
Glu Leu Thr Asn Asp Phe Arg Phe Lys Thr Thr Leu Gly Ile Pro Ile
1 5 10 15
Leu Ile Phe Ile Leu His Ile Leu Asn Arg Leu Ala Ala Tyr Thr Pro
20 25 30
Leu Ala Asn Pro Pro Glu Ser Ile Glu Ser Gly Asn Tyr Gly Ala Pro
35 40 45
Pro Arg Ala Xaa Trp Trp Phe Lys Gln Ala Met Ile Tyr Phe Phe Gly
50 55 60
Leu Leu Gly Met Lys Ile Cys Val Phe Phe Leu Ile Gln Leu Leu Pro
65 70 75 80
Phe Ile Val Lys Ile Gly Asp Trp Ala Leu Arg Trp Thr Glu Gly Asn
85 90 95
Thr Ala Leu Gln Ile Ile Phe Val Met Leu Leu Phe Pro Val Ile Met
100 105 110
Asn Ala Ile Gln Tyr Tyr Ile Ile Asp Thr Phe Ile Lys Arg Pro Leu
115 120 125
Ser Arg Thr His Glu Leu Leu Gln Glu Asp Asp Glu Val Glu Asp Ala
130 135 140
Leu Leu Asp Asp Gly Arg Thr Pro His Asn Ala Leu Leu Ser Ser Ala
145 150 155 160
Glu Asp Ala Asp Thr Phe Gly Pro Asp Glu Gly Ile Ile Gly Lys Asp
165 170 175
Leu Gly Lys Thr Leu Glu Pro Pro Ala Gly Pro Asn Gly Phe Arg His
180 185 190
Val Glu Tyr Asp Pro Ala Val Asp Gly Glu Tyr Phe Ser Pro Ala Ser
195 200 205
Ser Thr Ser Ala Ser Ser Ser Ser Ser His Gly Glu Tyr Asp Ala Met
210 215 220
Ser Ser Ser Thr Lys Leu Thr Pro Gln Asn Lys Arg Pro
225 230 235

<210> 25326
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25326
Glu Phe Ser His Ser Thr Glu Arg Glu Asp Ala Lys Asn Pro Pro Pro
1 5 10 15
Cys Ser Trp Lys Lys Thr Ala Xaa Lys Thr Gly Pro Pro Pro Pro Pro
20 25 30
Val Gln Glu Trp Ser Ser Leu Pro Thr Leu Leu Asn Lys Thr Asn Pro
35 40 45
Pro Lys Leu Asn Trp Arg Leu Asn Ala Phe Glu Thr Lys Lys Ile Pro
50 55 60
Thr Lys Asp His Val Glu Tyr Gln Thr Arg Arg Lys Ser Pro Ser Arg

65 70 75 80
Glu

<210> 25327
<211> 194
<212> PRT
<213> A.fumigatus

<400> 25327
Phe Asp Met Ser Cys Ser Phe Gln Pro Arg Gly Glu Asp Thr Phe Ile
1 5 10 15
Ile Ile His Gly Pro Arg Gly Ser Gly Lys Arg Glu Leu Val Leu Asp
20 25 30
Arg Ala Leu Val Asp Tyr Lys Tyr Lys Ile Val Ile Asp Cys Lys Gln
35 40 45
Ile Gln Asp Ala Arg Gly Asp Ser Ala Lys Ile Ala Arg Ala Ala Ser
50 55 60
Gln Val Gly Tyr Arg Pro Val Phe Ser Trp Met Asn Ser Ile Ser Ser
65 70 75 80
Phe Ile Asp Leu Ala Ala Gln Gly Met Ile Gly Thr Lys Ala Gly Phe
85 90 95
Ser Glu Thr Leu Asp Ala Gln Leu Ser Asn Ile Trp Gln Asn Thr Ala
100 105 110
Thr Ala Leu Lys Lys Val Thr Leu Glu His Arg Lys Lys Asn Asp Asn
115 120 125
Asp Ser His Leu Thr Asp Glu Glu Tyr Leu Glu Ala His Pro Glu Leu
130 135 140
Arg Pro Val Val Val Ile Asp Asn Tyr Leu His Asn Ala Ser Glu Ser
145 150 155 160
Ser Val Val Tyr Asp Lys Ile Thr Glu Trp Ala Ala Gly Leu Thr Ala
165 170 175
Gly Asn Ile Ala His Val Ile Phe Leu Thr Thr Met Ser Arg Thr Pro
180 185 190
Asn Leu

<210> 25328
<211> 221
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25328
Gln Ile Ser Asn Ser Trp Arg Thr Val Leu Arg Arg Arg Asp Thr Ala
1 5 10 15
Lys Tyr Val Glu Ser Lys Thr Leu Xaa His Val Tyr Ala Arg Ile Leu
20 25 30
Thr Tyr Ala Gln Gly Ala Gly Gln Arg Ile Ile Glu Gln Ser Ala Ser
35 40 45
Glu Ile Leu Lys Met Phe Leu Leu Thr Pro Glu Thr Ile Glu Gln Ser
50 55 60

```
Trp Thr His Glu Gln Ala Trp Tyr Leu Ile Lys Arg Leu Ala Glu Ser
65                  70                  75                  80
Lys Asp Gly Ser Leu Ser Tyr Asn Glu Ile Val Leu Ser Glu Leu Phe
                85                  90                  95
Lys Glu Asn Gly Glu Ile Thr Leu Arg Ala Leu Glu His Ala Glu Leu
            100                 105                 110
Ile Ser Ile Ala Ala Val Asn Gly Cys Pro Gln Arg Ile Arg Pro Gly
        115                 120                 125
Lys Pro Val Leu Arg Ala Val Phe Lys Lys Val Thr Glu Asn Lys Ala
    130                 135                 140
Leu Ser Ser Arg Met Asp Leu Ala Ile Ile Ala Lys Lys Ile Asn Lys
145                 150                 155                 160
Glu Asn Lys Ser Ile Glu Lys Tyr Glu Glu Glu Leu Ser Leu Leu Gly
                165                 170                 175
Ser Leu Pro Arg Gln Pro Arg Glu Leu Thr Asp Arg Ile Gln Trp Leu
            180                 185                 190
Leu Asn Lys Val Tyr Ser Ser Gln Asn Lys Ile Ala Lys Tyr Glu Lys
        195                 200                 205
Glu Ser Ala Tyr Leu Gln Lys Ile Leu Arg Ser Glu His
    210                 215                 220
```

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<210> 25329
<211> 304
<212> PRT
<213> A.fumigatus

<400> 25329

```
Thr Arg Gln Val Ser Trp Ile Gly Thr Pro Val Ile Glu Thr Arg Leu
1               5                   10                  15
Ala Val Cys Tyr Ala Leu Asn Asp Pro Met Glu Ile Ser His Ser Leu
            20                  25                  30
Val Ala His Ala Thr Thr Leu Ala Val Arg Ser Gly Ala Ser Ser Ser
        35                  40                  45
Thr Ser Glu Arg Pro Pro Ala Tyr Lys Ala Val Gly Ile Ala Leu Ala
    50                  55                  60
Val Ser Ser Gly Val Phe Ile Gly Thr Ser Phe Val Leu Lys Lys Thr
65                  70                  75                  80
Gly Leu Leu Lys Ala Asn Val Lys Tyr Asn Glu Glu Ala Gly Glu Gly
                85                  90                  95
Tyr Gly Tyr Leu Lys Asn Val Trp Trp Trp Ser Gly Met Ile Leu Met
            100                 105                 110
Ile Val Gly Glu Ile Cys Asn Phe Val Ala Tyr Ala Phe Val Asp Ala
        115                 120                 125
Ile Leu Val Thr Pro Leu Gly Ala Leu Ser Val Val Ile Thr Thr Ile
    130                 135                 140
Leu Ser Ala Ile Phe Leu Lys Glu Arg Leu Ser Phe Val Gly Lys Val
145                 150                 155                 160
Gly Cys Phe Ser Cys Ile Ile Gly Ser Val Val Ile Ala Leu Asn Ala
                165                 170                 175
Pro Glu Gln Ser Ser Val Gly Asp Ile Gln Asp Met Lys His Tyr Val
            180                 185                 190
Ile Ala Pro Gly Phe Leu Ala Tyr Ala Gly Val Ile Ile Val Gly Cys
        195                 200                 205
Ala Ile Val Ala Leu Trp Leu Gly Pro Arg Tyr Gly Lys Lys Ser Met
    210                 215                 220
Phe Val Tyr Ile Ser Ile Cys Ser Leu Ile Gly Gly Leu Ser Val Val
```

225 230 235 240
Ala Thr Gln Gly Leu Gly Ala Ala Ile Leu Ala Gln Ile Asn Gly Lys
245 250 255
Ser Gln Phe Lys Glu Trp Phe Leu Tyr Val Leu Leu Val Phe Val Ile
260 265 270
Ala Thr Leu Leu Thr Glu Ile Ile Tyr Leu Asn Val Met Ser Ser Val
275 280 285
Pro Gly Leu Gln Glu Arg Val Leu Thr Ala Asp His His Arg Lys Arg
290 295 300

<210> 25330
<211> 237
<212> PRT
<213> A.fumigatus

<400> 25330
Ile His Pro Arg Pro Thr Met Ala Gly Arg Gln Ser Ser Arg Glu Asn
1 5 10 15
Ala Arg Glu Gln Asp Leu Trp Pro Ala Ser Ser Cys Pro Pro Cys Arg
20 25 30
Pro Ser Gln Cys Thr Asp Arg Lys Gly His Gly Ala Gly Glu Arg Pro
35 40 45
Ser Thr Ser Gln Leu Asp Arg His Ser Gly Pro Val Arg Pro Ser Ser
50 55 60
Arg Asp Pro Arg Arg Arg His His Gly Ala Ser Arg Arg Ser Pro Arg
65 70 75 80
Ser Arg Arg Asn Gln Ile Gln His Ser Gly Pro Val Ala Arg Gln Gly
85 90 95
Arg His Gln Gly His Ser His Arg Arg Arg Ser Ile Gln Asp His Ala
100 105 110
Pro Pro Met Arg Asn Gly Glu Arg Ser Gly Ala Glu Ala Ala His Arg
115 120 125
Arg Ala Ala Ser His Ala Leu Asp Arg Thr Leu Pro Pro Tyr His Arg
130 135 140
Leu Pro Gly Pro Gln Pro Pro Ala Ile Gln His Arg Pro Ala Pro Pro
145 150 155 160
Gly Pro His Arg Arg Arg Arg Val Met Asp Asn Gln Gly Leu Glu Ala
165 170 175
Asp Asp Gly Arg Arg Leu Ser Arg Leu Gly Pro Thr Ser His Glu Ala
180 185 190
His Arg Pro Gly Gln Gly Gln Arg Ser Pro Gly Val Glu Ala Leu Pro
195 200 205
Ala Pro Ala Ser Lys Asp Val Asp Gln Gly Pro Arg Gly Phe Ala Arg
210 215 220
Arg Cys Leu Pro Ser Asn Ala Val Ser Asp Arg Asp His
225 230 235

<210> 25331
<211> 231
<212> PRT
<213> A.fumigatus

<400> 25331
Tyr Ile His Val Arg Arg Trp Gln Asp Gly Ser Leu Leu Gly Lys Met
1 5 10 15
Pro Val Asn Lys Thr Tyr Gly Gln Gln Val Val Val His Arg Ala Asp

```
            20                  25                  30
Leu His Asn Ala Leu Ile Glu Lys Ala Met Ala Leu Glu Asn Val Gln
        35                  40                  45
Val Arg Val Asn Ser Thr Val Thr Arg Val Gln Phe Asp Pro Pro Ala
    50                  55                  60
Val Thr Leu Ala Asp Gly Thr Met Val Gln Ala Asp Val Val Leu Ala
65                  70                  75                  80
Ala Asp Gly Ile Lys Ser Ser Ile Arg Asp Gln Leu Leu Gly Lys Asp
                85                  90                  95
Ala Thr Lys Ala Ile Pro Thr Gly Asp Ala Ala Tyr Arg Ile Met Leu
            100                 105                 110
Pro Arg Cys Ala Met Glu Asn Asp Pro Glu Leu Lys Gln Leu Ile Asp
        115                 120                 125
Glu Pro Gln Ala Thr Arg Trp Ile Gly Pro Tyr Arg His Ile Ile Ala
    130                 135                 140
Tyr Pro Val Arg Asn His Gln Leu Tyr Asn Ile Val Leu Leu His Pro
145                 150                 155                 160
Asp Arg Thr Asp Val Glu Glu Ser Trp Thr Thr Arg Gly Ser Lys Gln
                165                 170                 175
Met Met Val Asp Asp Tyr Arg Gly Trp Asp Arg Arg Val Thr Lys Leu
            180                 185                 190
Ile Asp Leu Val Lys Asp Asn Glu Val Leu Glu Trp Lys Leu Cys Gln
        195                 200                 205
His Pro Pro Leu Lys Thr Trp Ile Arg Gly Arg Val Ala Leu Leu Gly
    210                 215                 220
Asp Ala Cys His Pro Met Leu
225                 230
```

<210> 25332
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25332

```
Ala Ile Ala Thr Ile Ser Met Ile Ser Asp His Leu Ser Asn Asp Cys
1               5                   10                  15
Ser Pro Tyr Val Gly Gln Gly Ala Ala Gln Ala Val Glu Asp Ala Ala
            20                  25                  30
Ala Leu Gly Val Leu Leu Ser Ser Ile Ser Ser Arg Ser Glu Ile Pro
        35                  40                  45
Leu Ala Leu Ala Ser Tyr Glu Lys Ser Arg Lys His Arg Ala
    50                  55                  60
```

<210> 25333
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25333

```
Thr Val Gln Gln Ser Gly Thr Val Asn Arg Ala Thr Leu His Leu Pro
1               5                   10                  15
Asp Gly Pro Glu Gln Gln Ala Arg Asp Asp Gln Phe Arg Ala Ser Met
            20                  25                  30
Asn Gly Ala Ser Asn Pro Asp Lys Trp Ala Asp Leu Glu Thr Gln Lys
        35                  40                  45
Phe Leu Trp Gly Trp Asp Ala Glu Lys Ala Ala Leu Glu Thr Trp Glu
```

```
    50                  55                  60
Gly Glu Leu Pro Phe
65

<210> 25334
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25334
Ser Ser Leu Tyr Gln Cys Ala Glu Leu Ala Thr Glu Trp Cys Gly Ser
1               5                  10                  15
Gly Gln Leu Ser Lys Met Gln Ser Ser Pro Asn Met Leu Thr Lys Val
            20                  25                  30
Arg Cys Ser Pro Ser Val Thr Pro Tyr Pro Arg Ala Asn Gln Ala Thr
        35                  40                  45
Gln Leu Asn Asn Cys Phe Met Asn Ser Ser Ser Arg Ser Arg Leu Val
    50                  55                  60
Arg Arg Glu Leu Pro Phe Thr Leu Asn Gly Gln Ser
65                  70                  75

<210> 25335
<211> 120
<212> PRT
<213> A.fumigatus

<400> 25335
Pro Trp Asn Arg Pro Trp Ile Leu Val Ser Leu His Ser Ser Thr Ile
1               5                  10                  15
Gln Leu Trp Asp Tyr Arg Met Gly Thr Leu Ile Asp Arg Phe Glu Glu
            20                  25                  30
His Asp Gly Pro Val Arg Gly Ile Asp Phe His Pro Thr Gln Pro Leu
        35                  40                  45
Phe Val Ser Gly Gly Asp Asp Tyr Lys Ile Lys Val Trp Ser Leu Gln
    50                  55                  60
Thr Arg Arg Cys Leu Phe Thr Leu Asn Gly His Leu Asp Tyr Val Arg
65                  70                  75                  80
Thr Val Phe Phe His Arg Glu Leu Pro Trp Ile Leu Ser Ala Ser Asp
                85                  90                  95
Asp Gln Thr Ile Arg Ile Trp Asn Trp Gln Asn Arg Ser Leu Ser Lys
            100                 105                 110
Trp Thr Pro Val Ser Pro Arg Gly
        115                 120

<210> 25336
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25336
Val Leu Leu Ile Val Pro Arg Gln Lys Gly Arg Ser Trp Ser Ile Gln
1               5                  10                  15
Glu Leu Arg Glu Lys Ser Trp Glu Asp Leu His Cys Leu Trp Trp Val
            20                  25                  30
Cys Val Lys Glu Arg Asn Arg Ile Ala Thr Ser Asn Leu Glu Arg Gln
        35                  40                  45
```

```
Arg Leu Lys Ala Gly Tyr Gly Glu Trp Glu Ala Arg Glu Arg Asp Arg
    50                  55                  60
Thr Val Ser Phe Ser Phe Leu Ser Glu Leu Arg Pro Ser
65                  70                  75

<210> 25337
<211> 277
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16),(108)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25337
Thr Lys Gly Asn Thr Ser Ser Leu Thr Asn Gln Val Glu Val Met Xaa
1               5                   10                  15
Gln Thr Cys Ser Asp Val Thr Ala Leu Thr Ser Phe Ser Glu Asn His
            20                  25                  30
Asp Val Ala Arg Phe Ala Ser Phe Lys Asp Asp Ile Ala Val Arg Gln
        35                  40                  45
Arg Thr Pro Val Thr Leu Lys Val Ser Thr Asp Asp Arg Leu Thr Pro
    50                  55                  60
Ala Gln Leu Ala Lys Asn Val Leu Thr Phe Thr Met Leu Phe Asp Gly
65                  70                  75                  80
Ile Pro Met Ile Tyr Gln Gly Gln Glu Gln His Phe Ser Gly Ala Ser
                85                  90                  95
Asp Pro Glu Asn Arg Glu Ala Leu Trp Leu Ser Xaa Tyr Asn Thr Asn
            100                 105                 110
Ala Pro Leu Tyr Gln Leu Ala Thr Arg Leu Asn Arg Ile Arg Lys His
        115                 120                 125
Ala Ala Gln Ile Asp Pro Ala Phe Val Asp Ser Gln Thr Phe Pro Ile
    130                 135                 140
Tyr Thr Gly Ser Ser Glu Met Gly Phe Arg Lys Gly Val Glu Gly Arg
145                 150                 155                 160
Gln Leu Val Met Val Leu Ser Thr Gln Gly Met Asp Ser Gly Lys Tyr
                165                 170                 175
Glu Leu Asp Met Pro Ile Gly Tyr Gln Pro Gly Phe Val Val Thr Asp
            180                 185                 190
Val Leu Asn Cys Ala Asn Tyr Ser Val Asn Asp Met Gly Leu Leu Lys
        195                 200                 205
Val Ser Met Asp Lys Gly Glu Pro Arg Val Leu Phe Pro Ala Asp Met
    210                 215                 220
Met Glu Gly Ser Gly Leu Cys Gly Tyr Gly Arg Ser Asn Gly Thr Thr
225                 230                 235                 240
Tyr Leu Asn Leu Lys Lys Asn Ser Thr Gln Phe Ser Gly Gly Gly Leu
                245                 250                 255
Ser Asn Arg Pro Thr Val Pro Leu Leu Leu Ile Cys Cys Leu Thr Cys
            260                 265                 270
Leu Ile Leu Trp Cys
        275

<210> 25338
<211> 68
<212> PRT
```

<213> A.fumigatus

<400> 25338
Thr Ser His Gln His Leu Ser Cys Glu Gly Phe Phe Pro Leu Phe Phe
1 5 10 15
Cys Thr Val Asn His Thr Asp Arg Lys Ile Glu Leu Lys Ser Phe Leu
20 25 30
Leu Leu Leu Leu Pro Ser Lys Trp His Ile Asn Val Leu Glu Asp Ser
35 40 45
Thr Phe Lys Val Thr Arg Val Leu Arg Lys Ala Pro Val Asp Asp Val
50 55 60
Ile Pro Asp Lys
65

<210> 25339
<211> 194
<212> PRT
<213> A.fumigatus

<400> 25339
Gln Gly Ala Thr Ala Val Leu Glu Phe Ser Ala Ile Asp Ser Pro Phe
1 5 10 15
Ala Gln Pro Arg Asn Val Ile Val Gly Gln Leu Ala Ala Ser Ile Ile
20 25 30
Gly Val Ala Ile Gly Lys Leu Phe Ala Leu Asn Pro His Ala His Ser
35 40 45
Leu Pro Gln Val Gly Gly Ala Leu Ala Cys Ala Ile Thr Ile Ala Phe
50 55 60
Met Ala Ile Thr Asn Thr Thr His Pro Pro Ala Gly Ala Thr Ala Leu
65 70 75 80
Leu Ala Val Thr Glu Val Phe Glu Leu Gly Trp Tyr Leu Val Pro Val
85 90 95
Val Leu Leu Gly Cys Ala Leu Ile Leu Cys Val Ala Leu Leu Ile Asn
100 105 110
Asn Ile Gln Arg Arg Phe Pro Val Tyr Trp Trp Thr Pro His Ser Leu
115 120 125
Ala Arg Pro Lys Leu Glu Asp Val Glu Ser Ile Gly His Glu Lys Val
130 135 140
Ser Ser Val Lys Pro Thr Glu Ser Glu Asp Ser Val Thr Asp Glu Pro
145 150 155 160
Glu Glu Ile Ile Ile Arg Arg Gly Glu Val Leu Met Pro Asp Asn Leu
165 170 175
Trp Ile Ser Ala Glu Glu Arg Glu Val Leu Glu Arg Val Ser Gln Arg
180 185 190
Ile Gln

<210> 25340
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25340
Pro Met Lys Ile Arg Pro Thr Glu Arg Ile Phe Glu Gly Arg Pro Gln
1 5 10 15
Gly Ile Leu Lys Asp Phe Phe Ile Pro Ser Asn Ile Phe Leu Gly Leu

```
            20                  25                  30
Gly His His Ser Leu Leu Pro Ser Gly His Leu Phe Ile Glu Thr Ser
        35                  40                  45
Phe Ser Val Leu Tyr Asn Leu Leu Leu Ala Val Glu Ser Asn Pro Val
    50                  55                  60
Arg Ser Ser Ser Pro Thr Thr Glu
65                  70
```

<210> 25341
<211> 272
<212> PRT
<213> A.fumigatus

<400> 25341

```
Lys Ala Phe Gly Arg Pro Ser Leu Pro Ile Phe Ser Phe Leu Pro Ala
1               5                   10                  15
Ile Asp Pro Leu Ser Ser Thr Phe Phe Phe Ile Cys Val His Asp Pro
            20                  25                  30
Arg Gln Thr Phe Glu Leu Leu Pro Gly Leu Ser Phe Tyr Leu Pro Pro
        35                  40                  45
Tyr His Leu Pro Ser Pro Ile His Thr Ala Lys Met Val Ser Ala Ser
    50                  55                  60
Lys Ala Ala Arg Leu Ala Lys Arg Ala Ala Glu Gly Asp Lys Lys Lys
65                  70                  75                  80
Thr Ala Lys Ser Lys Lys Asp Val Lys Gly Asp Glu Ser Pro Leu Val
                85                  90                  95
Asp Ala Asp Gly Glu Pro Arg Pro Thr Glu Asp Gln Pro Ala Thr Thr
            100                 105                 110
Glu Glu Lys Met Lys Glu Val Glu Lys Leu Thr Ala Gln Met Asp Lys
        115                 120                 125
His Gly Leu Ser Asp Arg Val Thr Thr Gly Val Leu Ser Ser Met Ala
    130                 135                 140
Ser Ser Arg Asp Val Lys Ile Thr Ser Ala Ser Leu Val Phe His Gly
145                 150                 155                 160
Lys Val Leu Ile Thr Asp Ser Thr Leu Glu Leu Asn Phe Gly Arg Arg
                165                 170                 175
Tyr Gly Leu Leu Gly Glu Asn Gly Cys Gly Lys Ser Thr Leu Leu Lys
            180                 185                 190
Ala Ile Ala Thr Arg Glu Tyr Pro Ile Pro Glu His Ile Asp Ile Tyr
        195                 200                 205
Leu Leu Asn Glu Gly Ala Pro Pro Ser Asp Leu Gly Ala Leu Glu Trp
    210                 215                 220
Val Val Thr Glu Ala Gln Asn Gln Leu Glu Arg Met Glu Lys Gln Ala
225                 230                 235                 240
Glu Glu Ile Leu Glu Lys Asp Gly Pro Glu Ser Pro Ile Leu Glu Asp
                245                 250                 255
Leu Tyr Asp Gly Leu His His Gly Asp Ser Ala Ser Ala Leu Asp Asn
            260                 265                 270
```

<210> 25342
<211> 396
<212> PRT
<213> A.fumigatus

<400> 25342

```
Arg Ser Lys Arg Gly Glu Lys Gly Gly Gln Trp Trp Gly Lys Val Glu
```

```
1               5                   10                  15
Lys Leu Gly Thr Gln Gln Leu Gly Trp Trp Arg Leu Arg Pro Trp Gly
            20                  25                  30
Pro Trp Thr Phe Pro Gln Gly Ala Ala Lys Cys Ala Val Val Gly Thr
        35                  40                  45
Arg Asp Thr Ser Gln Ile Ser Gln Gln Pro Gly Tyr Ser Ser Arg Ala
    50                  55                  60
Asp Lys Ile Gly Val Ile Lys Lys Leu Pro Ser Arg Val Phe Tyr Arg
65                  70                  75                  80
Thr Leu Gln Glu Val Ala Gly Tyr Ile Thr Val His Ile Ala Met Ala
                85                  90                  95
Thr Pro Ala Pro Ala Gln Thr Glu Pro Ser Gly Leu Glu Asn Ile Ser
            100                 105                 110
Thr Leu Leu Glu Asn Leu Thr Ser Cys Leu Ser Ser Thr Gly Ser Ser
        115                 120                 125
Leu Pro Lys Ala Lys Arg Glu Ser Pro Ser Asp Val Ser Ile Glu Pro
    130                 135                 140
Pro His Asp Gly Ile Ser Leu Leu Asp Thr Lys Ser Asp Leu Leu Leu
145                 150                 155                 160
Ser Tyr Leu His Asn Leu Val Phe Leu Ile Ile Phe Gln Leu Arg Glu
                165                 170                 175
Ala Ala Ser Ala Glu Pro Lys Ala Glu Glu Asn Ser His Val Asp Asn
            180                 185                 190
Gly Asn Ser Pro Leu Arg Glu Asp Ile Val Lys Lys Leu Thr Glu Leu
        195                 200                 205
Arg Val Tyr Leu Asp Arg Gly Val Arg Pro Leu Glu Gly Arg Leu Lys
    210                 215                 220
Tyr Gln Val Asp Lys Val Ile Lys Ala Ala Glu Asp Ala Asp Arg Ala
225                 230                 235                 240
Glu Arg Gly Ala Gln Ala Thr Thr Lys Ser Lys Ala Lys Asn Ala Lys
                245                 250                 255
Ser Ser Ser Asn Ser Glu Ser Gly Ser Glu Glu Ser Ser Gly Asp Ser
            260                 265                 270
Glu Ser Asp Asn Glu Gly Glu Asp Glu Glu Glu Asp Asp Ile Asp Glu
        275                 280                 285
Met Ala Tyr Arg Pro Asn Ile Ser Ala Phe Ala Lys Gly Ile Lys Ser
    290                 295                 300
Glu Ala Gln Thr Glu Glu Lys Ala Asp Lys Lys Ile Ser Gly Asp Gly
305                 310                 315                 320
Ile Tyr Arg Pro Pro Arg Ile Met Pro Thr Ala Leu Pro Thr Thr Glu
                325                 330                 335
Arg Lys Glu Gln Arg Asp Arg Arg Pro Arg Arg Ser Asn Val Ile Asp
            340                 345                 350
Glu Phe Val Ser Ala Glu Met Ser Ala Ala Pro Met Ala Glu Pro Ser
        355                 360                 365
Ile Gly Ser Thr Ile Val Gln Gly Gly Arg His Ser Lys Thr Arg Lys
    370                 375                 380
Glu Arg Glu Arg Glu Ala Glu Arg Thr Ala Tyr Glu
385                 390                 395
```

<210> 25343
<211> 284
<212> PRT
<213> A.fumigatus

<400> 25343

```
Pro Thr Arg Asn Ser Arg Cys Pro Leu His Gln Val Val Ile Ser Phe
1               5                  10                  15
Thr Ala Thr Ser Gly Thr Met Val Pro Arg Val Thr Glu Gln Arg Thr
            20                  25                  30
Thr Pro Arg Pro Ser Ile Glu Pro Phe Leu Met Ala Ile Ala Ala Asn
        35                  40                  45
Thr Val Leu Pro Thr Thr Val Val Thr Ser Asn Gly Lys Thr Gln Thr
    50                  55                  60
Phe Ser Glu Asp Arg Ile Pro Ser Leu Thr Asp Leu Thr Thr Thr Thr
65                  70                  75                  80
Lys Val Thr Thr Thr Leu Ser Glu Asn Glu Ile Gln Thr Ala Thr Ser
                85                  90                  95
Thr Thr Thr Leu Ile Pro Val Ile Phe Pro Val Thr Lys Gly Gly Phe
            100                 105                 110
Tyr Trp Ser Pro Val Pro Glu Pro Thr Ala Pro Glu Phe Pro Ile Pro
        115                 120                 125
Ser Leu Pro Asp Phe Pro Pro Val Pro Ser Ser Pro Cys Phe Lys Leu
    130                 135                 140
Gly Asp Leu Phe Ser Arg Asn Cys Pro Pro Asn Asp Asn Lys Ala Pro
145                 150                 155                 160
Gln Thr Thr His Phe Thr Arg Gly Pro Asn Ser Pro Ser Cys Arg Ser
                165                 170                 175
Asn Cys Gly His Leu Arg Ser Glu Thr Asp Ser Ser Ser Ser Ser Ser
            180                 185                 190
Cys Thr Thr Gln Asn Val Thr Ser Cys Pro Lys Cys Ile Leu Ser Gln
        195                 200                 205
Val Phe Glu Phe Leu Asn Leu Ser Trp Leu Tyr Gln Leu Asn Ile Ser
    210                 215                 220
Phe Leu Pro Arg Asn Asn Arg Asp Ala Tyr Leu Asp Ile His His Ser
225                 230                 235                 240
Glu Pro His Arg Asn Ser Pro Pro Ser Gly Thr Asp Thr Ser Cys Ser
                245                 250                 255
Ser Glu Lys Glu Lys Cys Met Gln His Ala Gln Leu Trp Leu Arg Asn
            260                 265                 270
Ser Ala Pro Thr Leu Pro Val Ile Asn Pro Val Met
        275                 280
```

<210> 25344
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25344

```
Leu Gln Met Pro Phe Ala Pro Ser Gly Tyr Lys Phe Tyr Arg Asn Val
1               5                  10                  15
Arg Asp Tyr Gly Ala Thr Gly Asp Gly Thr Ala Asp Asp Thr Ala Ala
            20                  25                  30
Ile Asn Arg Ala Val Ser Asp Gly Asn Arg Cys Gln Tyr Arg Leu Ala
        35                  40                  45
Asp Asn Gly Cys His Val Lys Trp Gln Asp Thr Asp Leu Phe Arg Gly
    50                  55                  60
Ser Asn Ser Glu Ser Tyr Arg Phe Asp Asn His His Gln Gly His Tyr
65                  70                  75                  80
Asp Pro Glu
```

<210> 25345
<211> 284
<212> PRT
<213> A.fumigatus

<400> 25345
Val Phe His Arg Asp Ser Cys Ser Pro Ala Pro Phe Leu Phe Glu Ser
1 5 10 15
Asp Arg Ile Gly Ser Cys Phe Thr Phe Arg Thr His Ala Ala Phe Ile
20 25 30
Trp Ala Thr Glu Val Glu Glu Lys Lys Ala Ser Phe Ile Gln Gln Glu
35 40 45
Gln Ser Ala Tyr Ala Pro Arg His Leu Leu Ser Pro Ala Gly Thr Ala
50 55 60
Asn Ala Thr Ser Ser Asn Gly Lys Gly Ser Ile Arg Asp Ser Gln Leu
65 70 75 80
Tyr Lys Arg Ile Leu Gly Gln Ser Leu Lys Gln Val Gly Leu Ser Glu
85 90 95
Asn Ala Asn Glu Asp Ala Ser His Gln Pro Glu Ser Ser Ser Ala Arg
100 105 110
Asp Lys Gly Ala Met Pro Tyr Ile Val Pro Pro Arg Thr Glu Gly Glu
115 120 125
Asp Gly Tyr Ser Ser Phe Lys Gly Phe Arg Gly Tyr Thr Gly Glu Glu
130 135 140
Asn Glu Asp Leu Val Arg Gln Val Thr Glu Val Ala Ala Thr Ala Ala
145 150 155 160
Ala Val Ala Ala Arg Asp Val Ala Arg Thr Arg Lys Pro Ser Val Gln
165 170 175
Gln Gly Thr Ala Arg His Ser Asn Lys Ile Thr Gly Asp Leu Ser Lys
180 185 190
Ser Val Leu Glu Asp Gln Glu Asp Val Gly Ile Glu His Thr His Ala
195 200 205
Ser Gly Gly His Asp Ala Pro Asn Trp Ser Lys Ala Lys Ser Ser Ile
210 215 220
Ile Leu Leu Val Ala Thr Ile Leu Tyr Ala Ile Ile Ala Glu Ile Leu
225 230 235 240
Val Asn Thr Val Asp Val Val Leu Glu Ser Val Asp Ile Asp Glu Lys
245 250 255
Phe Leu Gly Ile Thr Leu Phe Ala Leu Val Pro Asn Thr Thr Glu Phe
260 265 270
Leu Val Arg Pro Ile Gln Ser Ile Pro Ala Ala Pro
275 280

<210> 25346
<211> 103
<212> PRT
<213> A.fumigatus

<400> 25346
His Arg Arg Glu Ile Pro Trp Asn Tyr Pro Leu Cys Ala Cys Pro Gln
1 5 10 15
Tyr Tyr Gly Ile Ser Gly Lys Thr Asn Ser Ile Asn Thr Cys Ser Ser
20 25 30
Met Asn Leu Thr Pro Val Gln Asn Ala Ile Ser Phe Ala Met Asn Gly
35 40 45
Asn Ile Ala Leu Ser Met Glu Ile Gly Ser Ala Tyr Ala Leu Gln Val

```
    50                  55                  60
Cys Leu Leu Gln Ile Pro Ala Leu Val Leu Phe Ser Ala Leu Tyr Ser
65                  70                  75                  80
Arg Ile Leu Asp Pro Ser Asp Leu Leu Thr His Ser Ser Ser Pro Arg
                85                  90                  95
Glu Cys Arg Ile Arg Gly Ser
            100
```

<210> 25347
<211> 193
<212> PRT
<213> A.fumigatus

<400> 25347

```
Pro Ser Ser Pro Val Val Lys Thr Phe Arg Trp Arg Leu Leu Ala Phe
1               5                  10                  15
Gln Pro Ile Val Leu Leu Ser Asn Ala Ile Gln Tyr Leu Pro Ser Ile
            20                  25                  30
Phe Thr Lys Gly Arg Arg Asn Gly Ile Trp Ile Pro Leu Lys Arg Ala
        35                  40                  45
Pro Gly His Ser Val Arg Ala Ile Val Tyr His Pro Arg Thr Gln Thr
    50                  55                  60
His Ser Gly Ser Arg Ala Ile His Leu Asn Ile His Gly Gly Gly Phe
65                  70                  75                  80
Leu Gly Gly Leu Pro Glu Gly Gln Thr Ser Phe Cys Gln Lys Val Ala
                85                  90                  95
His Glu Thr Gly Ala Ile Val Val Ser Thr Ser His Arg Tyr Ala Pro
            100                 105                 110
Arg Tyr Thr Phe Pro Thr Ala His Glu Asp Val Gln Asp Val Ala Glu
        115                 120                 125
Trp Leu Ile Glu Asn Ala Glu Arg Leu Trp Gly Thr Asn Pro Arg Ser
    130                 135                 140
Met Thr Val Ser Gly Phe Ser Ala Gly Gly Asn Leu Ala Leu Gly Val
145                 150                 155                 160
Ala Gln Gly Leu Ala His Thr Glu Phe Ser Ile Lys Ala Ser Val Thr
                165                 170                 175
Phe Tyr Ala Pro Val Ser Ile Tyr Ile Ile His Arg Leu His Arg Leu
            180                 185                 190
Phe
```

<210> 25348
<211> 65
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(5),(7),(17),(64)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25348

```
Arg Arg Gly Xaa Xaa Lys Xaa Leu Gly Ile Gln Trp Ala Val Phe Ser
1               5                  10                  15
Xaa Lys Leu Pro Arg Ile Leu Ser Leu Leu Ala Ile Ala His Ala Gln
            20                  25                  30
```

```
Asn Thr Lys Thr His Leu Gly Gln Pro Gly Arg Arg Thr Arg Thr Pro
        35                  40                  45
Ser Thr Arg Leu Arg Trp Cys Ser Asn Thr Gly Glu Arg Gln Pro Xaa
    50                  55                  60
Ser
65
```

<210> 25349
<211> 297
<212> PRT
<213> A.fumigatus

<400> 25349

```
Thr Gln Gly Pro Gly Val Ala Arg Ile Ser Gly Gly Arg Ser Ala Lys
1               5                  10                  15
Pro Asp Asp Leu Asp Thr Pro Thr Ser Asn Lys Asp Glu Ala Arg Tyr
            20                  25                  30
Cys Arg Gly Thr Pro Arg Ala Ala Ala Ser Gly Phe Leu His Leu Leu
        35                  40                  45
Tyr Pro Thr Pro Glu Leu Trp Thr Ala Ser Leu Pro His Arg Thr Gln
    50                  55                  60
Val Val Tyr Thr Pro Asp Tyr Ser Tyr Ile Leu His Arg Leu Cys Val
65                  70                  75                  80
Arg Pro Gly Ser Thr Ile Ile Glu Ala Gly Ala Gly Ser Gly Ser Phe
                85                  90                  95
Thr His Ala Ser Val Arg Ala Val Phe Asn Gly Tyr Pro Ser Glu Ala
            100                 105                 110
Pro Ala Ala Lys Lys Arg Arg Leu Gly Lys Val Cys Ser Phe Glu Phe
        115                 120                 125
His Ala Gln Arg Ala Gln Arg Ile Arg Glu Glu Ile His Asp His Gly
    130                 135                 140
Leu Asp Ala Leu Val Glu Val Thr His Arg Asp Val Tyr Glu Asp Gly
145                 150                 155                 160
Phe Leu Leu Gly Asp Pro Lys Thr Gly Lys Ser Pro Lys Ala Asn Ala
                165                 170                 175
Ile Phe Leu Asp Leu Pro Ala Pro Trp Leu Ala Leu Lys His Leu Val
            180                 185                 190
Arg Arg Pro Pro Ser Gly Ala Glu Ser Pro Leu Asp Pro Ser Ser Pro
        195                 200                 205
Val Tyr Ile Cys Thr Phe Ser Pro Cys Ile Glu Gln Val Gln Arg Thr
    210                 215                 220
Ile Thr Thr Leu Arg Glu Tyr Ser Trp Leu Ser Ile Ser Met Val Glu
225                 230                 235                 240
Val Asn His His Arg Ile Asp Val Lys Arg Glu Arg Thr Gly Leu Asp
                245                 250                 255
Cys Glu Gly Val Arg Gly Ala Thr Val Phe Pro Lys Ser Val Asp Glu
            260                 265                 270
Ala Val Ala Lys Met Arg Ala Val Glu Glu His Ser Arg Arg Leu Ser
        275                 280                 285
Ser Pro Arg Ala Ala Arg Ser Ala Ala
    290                 295
```

<210> 25350
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25350
Asn His Ile Asp Glu Lys Lys Ile Glu Tyr Val His Leu Pro Arg Asn
1 5 10 15
Ala Leu Asn Arg Val Asp Tyr Ser Thr Leu Met Gly Ser Val Leu Ala
20 25 30
Ala Gln Ile Ser Ser Asp Pro Ser Gly Val Gly Thr Leu Ser Phe Thr
35 40 45
Glu Leu Glu Glu Tyr Glu Glu Ser Glu Met Arg Pro Ala Gly Phe
50 55 60

<210> 25351
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25351
Arg Val Cys Gly Ser Ala Asp Leu Pro Phe Pro Cys Ser Asp Ile Leu
1 5 10 15
Pro Lys Gly Trp Ala Ser Glu Gly Gln Pro Ser Thr Leu Cys Phe Lys
20 25 30
Asp Lys Asp Val Tyr Pro Phe Gly Pro Gly Phe Pro Phe His Thr Arg
35 40 45
Leu Lys Ala Asp Glu Arg Ser Asn Val Leu Arg Cys Ala Cys Tyr Thr
50 55 60
Ala Val Ser Arg
65

<210> 25352
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25352
Leu Phe Lys Asp Asp Lys Asp Asn Leu Lys Ser Gly Asn Phe Leu Gly
1 5 10 15
Gly Met Leu Ala Asp Leu Gln Gly Gly Val Ala Gly Gly Glu Gly Arg
20 25 30
Asp Asn Pro Asp Asp Trp Glu Ala Lys Phe Lys Pro Glu Val Glu Asp
35 40 45
Gln Tyr Ile Asp Gly Leu Thr Arg Gly Trp Lys Asp Pro Arg Arg Arg
50 55 60
Tyr Gln
65

<210> 25353
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25353
Val Met Glu Pro Asp Tyr Gly Ala Leu Ser Ser Arg Leu Ile Arg Gly
1 5 10 15
Ala Phe Leu Leu Gln Ser Ser Ile Asn Met Glu Asp Leu Arg Leu Glu
20 25 30
Glu Asp Glu Tyr Leu Ser Phe Trp Val Thr Asn Asn Ala Gly Ile Glu

```
        35                  40                  45
Arg Leu Ala Leu Ser Thr Arg Arg Gly Ser Lys Glu Thr Ser
    50                  55                  60

<210> 25354
<211> 127
<212> PRT
<213> A.fumigatus

<400> 25354
Leu Thr Leu Ser Glu Thr Ala Val Ser Leu Tyr Asp Val Val Ala Gln
1               5                  10                  15
Asp Tyr Ser Gly Leu Phe Leu Gln Ser Thr Arg Arg Arg Arg Leu Asp
            20                  25                  30
Ser Leu Lys Ser His Ser Asp Ser Leu Lys Gln Leu Gln Pro Ser Thr
        35                  40                  45
Ile Gln Ser Ala Tyr Thr Gln Gln Gln Thr Leu Asn Ile His Thr Phe
    50                  55                  60
Asn Tyr Ile Tyr Gly Thr Val Phe Phe Leu Pro Gln Ser Arg Asp Gln
65                  70                  75                  80
Tyr Pro Lys Tyr Ser Ser Ile Thr Leu Phe Leu Ala Lys Asp Gly Gly
                85                  90                  95
Ser Ile Asp His Ser Gly Leu Tyr Ser Leu Val Cys Phe Arg Ala Cys
            100                 105                 110
Pro Ile Thr Trp Leu His Tyr Ser Pro His Pro Arg Gly Ser Thr
        115                 120                 125

<210> 25355
<211> 123
<212> PRT
<213> A.fumigatus

<400> 25355
Leu Arg Tyr Arg Ala Ala Trp Leu Thr Phe Gln Ser Val Gly Ala Lys
1               5                  10                  15
Asp Lys Ile Arg Cys Ala Val Phe Ser Leu Pro Ser Ala Arg Glu Leu
            20                  25                  30
Lys Ala Thr His Leu Glu Pro Lys Lys Pro Trp Pro Ser Arg Val Glu
        35                  40                  45
Thr Ala Ala His Glu Gly Gln Pro Asn Leu Leu Trp Lys Asn Ser His
    50                  55                  60
Val Asp Phe Thr Lys Tyr Ala His Ile Asp Gly Ile Leu Pro Glu Val
65                  70                  75                  80
Trp Arg Thr Ser Gly Pro Gly Ile Ser Gly Thr Val Asn Ser Gly Leu
                85                  90                  95
Gly Ile Ser Gln His Ile Cys Tyr Leu Gly Cys Glu His Thr Arg Asp
            100                 105                 110
Ala Ser Ile Tyr Leu Arg Arg His Ile Leu Thr
        115                 120

<210> 25356
<211> 155
<212> PRT
<213> A.fumigatus

<400> 25356
```

```
Asp Gly Leu Arg Tyr Glu Ser Val Arg Thr Lys Gly Gln Thr Ile Leu
1               5                  10                  15
Thr Arg Gln Met Phe Ser Trp Trp Ala Asn Val Ala Thr Ser Pro Tyr
            20                  25                  30
Leu Ile Gly Thr Gln Ile Gln Ala Leu Val Ile Gln Asn His Pro Glu
        35                  40                  45
Tyr Val Pro Gln Pro Trp His Ala Thr Leu Ile Val Trp Ala Val Leu
    50                  55                  60
Leu Ile Pro Val Ala Val Asn Ile Tyr Ala Arg Arg Leu Leu Ser Pro
65                  70                  75                  80
Val Glu Val Ile Gly Gly Ile Ile His Ile Leu Phe Phe Pro Ala Val
                85                  90                  95
Leu Ile Thr Leu Val Val Leu Gly Ser Arg Asn Ser Ser Glu Phe Val
            100                 105                 110
Trp Thr His Phe Glu Asn Ser Met Ser Gly Trp Lys Asn Asp Gly Val
        115                 120                 125
Ile Trp Ser Val Gly Leu Leu Thr Ala Val Tyr Thr Leu Gly Gly Thr
    130                 135                 140
Asp Leu Ser Ser His Ser Thr Leu Cys Leu Arg
145                 150                 155
```

<210> 25357
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25357

```
Ser Asp Arg Lys Gln Arg Tyr Leu Ser Phe Leu Pro Met Leu Ala Phe
1               5                  10                  15
Ala Ala Thr Leu Gln Ala Ser Trp Glu Ala Ile Gly Ala Ser Met Phe
            20                  25                  30
Ala Gly Leu Glu Asn Gly Gly Pro Val Val Leu Ile Tyr Gly Leu Ile
        35                  40                  45
Leu Ala Ile Val Gly Ser Leu Gly Ile Ala Leu Ser Leu Ala Glu Leu
    50                  55                  60
Ala Ser Met
65
```

<210> 25358
<211> 204
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25358

```
Ser Xaa Val Ser Phe Ser His Asn His Gln Pro Leu Gly Leu Arg Phe
1               5                  10                  15
Ser Ser Arg Gly Arg His Pro Ser Phe Ile Pro Ala Thr Leu Gln Ser
            20                  25                  30
Ser Met His Leu Arg Asn Phe Ser Leu Ala Val Ile Ser Thr Val Val
        35                  40                  45
Ala Ser Gly Ala Trp Tyr Ala Tyr Gln Gly Ser Asn Ser Pro Gln Ser
```

```
    50                  55                  60
Pro Val Thr Ser Pro Ser Gln Thr Arg Ser Ile Ala Thr Asp Ala Ser
65                  70                  75                  80
Ser Gly Pro His Ala Glu Glu Ser Ala Glu Ser Thr Arg Arg Ala Ile
                85                  90                  95
Leu Val Asp Asn Asp Gln Phe Tyr Thr Ala Thr Leu Ser Gly Asp Gln
            100                 105                 110
Pro Leu Tyr Lys Gln Thr Asp Asp Ser Asp Arg Arg Ile Leu Glu Met
        115                 120                 125
Leu Thr Pro Glu Gln Ala Thr Gln Lys Leu Arg Arg Asn Glu Gln Ser
    130                 135                 140
Phe Met Val Asn Arg Gly Lys Gly Val Val Arg Tyr Asp Val Val Gln
145                 150                 155                 160
Val Pro Ser Asn Ser Pro Ile Glu Asp Asp His Ala Glu Lys Ile Val
                165                 170                 175
Glu Val Pro Ser Ser Val Ala Ala Ala Asn Asp Gly Gly Ser Thr Ser
            180                 185                 190
Asp Trp Met Phe Trp Ala Val Phe Asp Gly His Ser
        195                 200
```

<210> 25359
<211> 271
<212> PRT
<213> A.fumigatus

<400> 25359

```
Ala Arg Gly Trp Thr Thr Ser Ala Lys Leu Arg Asn Val Leu Ile Ser
1               5                   10                  15
Tyr Val Ala Arg Glu Leu Asn Thr Thr Tyr Lys Ala Ala Ala Thr Asn
            20                  25                  30
Pro Ser Leu Ile Ser Pro Ser Ser Glu Ala Val Asp Ala Ala Ile Lys
        35                  40                  45
Gln Ala Phe Val Arg Leu Asp Asn Asp Ile Val His Ser Ser Val Asp
    50                  55                  60
Lys Val Leu Lys Ser Asn Ser Arg Arg Ala Ala Ala Glu Leu Leu Ala
65                  70                  75                  80
Pro Ala Leu Ser Gly Ser Cys Ala Leu Leu Ala Phe Tyr Asp Ser Gln
                85                  90                  95
Ser Lys Asp Leu Lys Val Ala Cys Ala Gly Asp Ser Arg Ala Val Leu
            100                 105                 110
Gly Arg Arg Gly Pro Thr Gly Lys Trp Thr Ala Thr Pro Leu Ser Glu
        115                 120                 125
Asp Gln Thr Gly Gly Thr Pro Ser Glu Met Lys Arg Leu Arg Glu Glu
    130                 135                 140
His Pro Gly Glu Pro Asn Val Val Arg Asn Gly Arg Ile Leu Gly Gln
145                 150                 155                 160
Leu Glu Pro Ser Arg Ser Phe Gly Asp Ala Phe Tyr Lys Trp Ser Lys
                165                 170                 175
Glu Thr Gln Glu Lys Ile Lys Lys Gln Phe Phe Gly Arg Thr Pro His
            180                 185                 190
Pro Leu Leu Lys Thr Pro Pro Tyr Val Thr Ala Glu Pro Val Ile Thr
        195                 200                 205
Thr Thr Lys Ile Glu Pro Ser Lys Gly Asp Phe Val Val Met Ala Thr
    210                 215                 220
Asp Gly Leu Trp Glu Met Leu Thr Asn Glu Glu Val Val Gly Leu Val
225                 230                 235                 240
```

```
Gly Gln Trp Ile Asp Gln Gln Arg Ala Gly Asn Asn Gly Thr Ser Lys
                245                 250                 255
Ala Trp Leu Gln Ser Trp Phe Gly Leu Asp Asn Lys Arg Asp His
            260                 265                 270
```

<210> 25360
<211> 159
<212> PRT
<213> A.fumigatus

<400> 25360

```
Asp Lys Met Phe Arg Ser Val Pro Arg Arg Ile Pro Arg Arg Leu Pro
1               5                   10                  15
Thr Leu Ser Ser Thr Ala Gly Ser Pro Ser His Leu Ala Leu Arg Ser
            20                  25                  30
Phe Thr Cys Gly Tyr Pro Arg Met Ser Ser Ser Pro Leu Pro Thr Val
        35                  40                  45
Glu Pro Pro Val Ser Thr Thr Leu Pro Ser Asp Ser Phe Gln Leu Leu
    50                  55                  60
Ser Thr Ala Glu Lys Ser Gly Ser Ala Glu Asp Ala Leu Tyr Glu Gln
65                  70                  75                  80
Gln Ile Lys Asp Val Glu Ala Trp Trp Lys Ser Pro Arg Phe Glu Gly
                85                  90                  95
Ile Lys Arg Pro Tyr Ser Ala Ala Asp Val Val Ser Lys Arg Gly Thr
            100                 105                 110
Leu Gln Gln Thr Tyr Pro Ser Ser Leu Met Ala Arg Gln Ala Tyr Ser
        115                 120                 125
Ile Trp Leu Ile Glu Lys Asn Arg Gln Arg Glu Asn Pro Phe Leu Thr
    130                 135                 140
Asn Tyr Gly Arg Thr Leu Tyr Thr Gly Thr Leu Gly Gln Lys Ser
145                 150                 155
```

<210> 25361
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25361

```
Leu Leu Asn Ile Ile Ile Arg Ser Ile Ile Lys Ser Tyr Leu Leu Leu
1               5                   10                  15
Phe Thr Ile Leu Lys Asn Asn Thr Leu Lys Leu Glu Gly Ile Leu Leu
            20                  25                  30
Leu Ile Lys Ile Ile Thr Asn Tyr Tyr Ser Leu Glu Tyr Leu Tyr Leu
        35                  40                  45
Leu Ser Tyr Leu Ile Asp Asn Lys Pro Ile Ser Leu Asn Ser Tyr Pro
    50                  55                  60
Thr Leu Ile Leu Lys Leu Tyr Ile Asn Leu Gly Ser Lys Glu Leu Ser
65                  70                  75                  80
Leu Ile Leu
```

<210> 25362
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25362
Thr Asp Cys Gly Met Leu Thr Phe Ser Asp Glu Asp Ile Arg Ala Lys
1 5 10 15
Ile Arg Glu Glu Leu Gly Glu Asp Ala Ser Asp Ile Lys Phe Leu Pro
20 25 30
Phe Arg Asp Leu Glu Ala Ser Val Arg Glu Asp Val Arg Phe Leu Arg
35 40 45
Gly Ser Arg Leu Val Gln Gly Asn Val Thr Gly Tyr Val Tyr Glu Val
50 55 60
Glu Arg Gly Arg Leu Val Arg Leu Asp Val Ser Asp Ile
65 70 75

<210> 25363
<211> 140
<212> PRT
<213> A.fumigatus

<400> 25363
Gln Thr Gly Arg Arg His Leu His Gly Arg Ala His Arg Tyr Pro Pro
1 5 10 15
Leu Pro Pro Phe Ser Ser Pro Tyr Arg Ser Thr Asn Ser Ala Asp Val
20 25 30
Phe Ser Val Leu Gly Leu Thr Glu Gly Asp Ala His Val Ile Arg Asn
35 40 45
Ala Gly Gly Arg Ala Ser Glu Ala Leu Arg Ser Leu Ile Ile Ser Gln
50 55 60
Arg Leu Leu Gly Thr Glu Glu Val Val Val Ile His His Val Ser Pro
65 70 75 80
Val Cys Ser His Pro Ser Leu Thr Ser Gly Thr Asp Asp Asp Asp Asp
85 90 95
Arg Arg Thr Ala Gly Cys Ser Pro Ser Ala Thr Arg Ile Ser Glu Pro
100 105 110
Arg Ser Gly Lys Ser Leu Ala Arg Met Arg Arg Ile Ser Ser Ser Cys
115 120 125
Arg Ser Gly Ile Trp Arg Arg Val Cys Gly Arg Met
130 135 140

<210> 25364
<211> 139
<212> PRT
<213> A.fumigatus

<400> 25364
Ala Arg Gly Cys Asn Arg Glu Tyr Ser Ala Glu Cys Asp Phe Val Phe
1 5 10 15
Arg Ala Arg Ala Thr Thr Phe Val Cys Leu Thr Trp Phe Ala Leu Phe
20 25 30
Leu Ala Trp Glu Met Val Asp Met Arg Arg Ser Phe Phe Arg Met Gln
35 40 45
Pro Gly Ser Thr Arg Tyr Leu Thr Gln Trp Met Ser Asp Val Trp Arg
50 55 60
Asn Gln Phe Leu Phe Trp Ser Ile Val Ala Gly Phe Val Thr Thr Phe
65 70 75 80
Pro Ile Leu Tyr Ile Pro Val Leu Asn His Val Val Phe Lys His Thr
85 90 95
Gly Ile Ser Trp Glu Trp Gly Ile Val Phe Val Glu Ala Val Leu Phe

```
            100                 105                 110
Phe Leu Gly Val Glu Leu Trp Lys Phe Ala Lys Arg Val Tyr Phe Arg
        115                 120                 125
Arg Gln Gln Gly Lys Asn Val Gln Ser Leu Ala
    130                 135
```

<210> 25365
<211> 184
<212> PRT
<213> A.fumigatus

<400> 25365

```
Tyr Thr Ile Phe Leu Phe Leu Ser Ser Pro Phe Arg Asn Pro Asp Arg
1               5                   10                  15
Tyr Pro Cys Tyr Gln Glu Asn Gly Arg Thr Tyr His Gly Tyr Arg Lys
            20                  25                  30
Gly Ile Tyr Met Leu Pro Cys Asp Glu Gln Glu Gln Asp Arg Leu Asp
        35                  40                  45
Ile Phe His Lys Leu Phe Thr Val Ala Arg Val Ser Asp Gly Leu Ile
    50                  55                  60
Tyr Ala Pro His Pro Thr Asn Gly Arg Phe Leu Asp Leu Gly Cys Gly
65                  70                  75                  80
Thr Gly Ile Trp Ala Ile Asp Val Ala Asn Lys Tyr Pro Glu Ala Phe
                85                  90                  95
Val Val Gly Val Asp Leu Ala Pro Ile Gln Pro Pro Asn His Pro Arg
            100                 105                 110
Asn Cys Asp Phe Tyr Ala Pro Phe Asp Phe Glu Ser Leu Trp Ala Leu
        115                 120                 125
Gly Glu Asp Ser Trp Asp Leu Ile His Met Gln Met Gly Ser Gly Ser
    130                 135                 140
Val Ala Ser Trp Pro Asn Leu Tyr Arg Arg Ile Tyr Ser His Leu Arg
145                 150                 155                 160
Pro Gly Ala Trp Phe Glu Gln Val Asp Met Asp Phe Glu Pro Leu Tyr
                165                 170                 175
Gly Arg Ala Glu Ile Ser Asp Ala
            180
```

<210> 25366
<211> 106
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10),(14),(16),(39)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25366

```
Pro Val His Val Val Phe Pro Phe Gly Xaa Leu Val Asn Xaa Leu Xaa
1               5                   10                  15
Gly Phe Phe Phe Phe Phe Phe Phe Ser Pro Asn Thr Arg Leu Asp Phe
            20                  25                  30
Leu Asp Leu Met Phe Leu Xaa Gly Gln Gly Gly Gln Arg Pro Pro Asp
        35                  40                  45
Gly Ala Phe Pro Pro Leu Asn Val Arg Gly Phe Ile Ser Ser Gly Phe
    50                  55                  60
```

```
Asn Ala Leu Gly Arg Ser Arg Asn Asn Ser Asp Ala Met Asp Ile Tyr
65                  70                  75                  80
Thr Ile Thr Asp Arg Gly Pro Arg Cys Arg Glu Arg Pro Gly Arg Trp
                85                  90                  95
Ser Leu Ala Arg Gln Trp Phe Pro Lys Tyr
            100                 105
```

<210> 25367
<211> 61
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9),(23),(29),(38)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25367

```
Leu Ser His Asn Ser Gln Gly Ile Xaa His Ser Leu Asn Leu Arg Arg
1               5                   10                  15
Lys Val Tyr Val Cys Pro Xaa Cys Pro Ile Thr His Xaa Thr Lys Ile
            20                  25                  30
Lys Glu Ser Thr Lys Xaa Leu Ile Ser Gly Lys Trp Arg Ser Thr Val
        35                  40                  45
Thr Pro Thr Ile Asn Leu Thr Gln Cys Lys Tyr Pro Pro
    50                  55                  60
```

<210> 25368
<211> 92
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(51),(52),(53),(55),(57),(58),(59),(60),(63),(64),(65),(66),(67),(68),(69),(74)
,(78)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25368

```
Gly Gly Gly Ile Ile Phe Leu Ala Leu Leu Leu Leu Gly Gly Arg Thr
1               5                   10                  15
Val Pro Val Val Ser Lys Leu Gln Gln Pro Pro Trp Gly Asp Ile Met
            20                  25                  30
Gly Gly Cys Ala Arg Ser Thr Ser Lys Phe Tyr Leu Gly Lys His Phe
        35                  40                  45
Val Arg Xaa Xaa Xaa Pro Xaa Arg Xaa Xaa Xaa Xaa Gly Arg Xaa Xaa
    50                  55                  60
Xaa Xaa Xaa Xaa Xaa Arg Ser Ala Ser Xaa Ala Phe Glu Xaa Thr Gly
65                  70                  75                  80
Ile Val Ala Ile Leu Leu Met Leu Ser His Ser Val
                85                  90
```

<210> 25369
<211> 94
<212> PRT

<213> A.fumigatus

<400> 25369
Ile Gly Ser Gly Met Asn Ser Asp Leu Phe Pro Pro Gln Asp Arg Trp
1 5 10 15
Lys Ala Met Ala Val Phe Thr Leu Ala Pro Leu Ile Gly Thr Ala Ile
20 25 30
Gly Pro Ile Thr Gly Ala Phe Leu Val Gln Tyr Glu Ser Trp Pro Trp
35 40 45
Cys Phe Tyr Val Val Ser Ile Ala Ala Ala Val Met Gln Leu Ala Ala
50 55 60
Phe Leu Leu Leu Arg Glu Thr Tyr Gly Pro Val Leu Leu Arg Arg Lys
65 70 75 80
Cys Ala Arg Met Arg Lys Thr Thr Gly Thr Leu Thr Ser Leu
85 90

<210> 25370
<211> 112
<212> PRT
<213> A.fumigatus

<400> 25370
Val Thr Trp Asp Gly Pro Asn Asp Pro Glu Asn Pro Lys Asn Trp Pro
1 5 10 15
Ala Ser Arg Lys Trp Met Val Phe Ile Pro Met Ser Leu Phe Asn Leu
20 25 30
Leu Ser Ser Met Ser Ser Ala Thr Val Ala Pro Ala Leu Glu Ala Ile
35 40 45
Ala Asp Asp Leu Lys Ile Arg Ser Gln Thr Leu Leu Ile Met Ser Leu
50 55 60
Ser Val Tyr Leu Leu Gly Ser Ala Ile Ile Pro Leu Val Ser Ser Pro
65 70 75 80
Leu Ser Glu Met Tyr Gly Arg Val Ile Ile Leu Ser Ala Ser Asn Ile
85 90 95
Val Tyr Ile Ile Phe Asn Thr Leu Cys Gly Ile Ala Lys Thr Gln Asn
100 105 110

<210> 25371
<211> 329
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (16)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25371
Ser Ala Thr Thr Ser Val Cys Ile Phe Pro Pro Pro Pro Gly Pro Xaa
1 5 10 15
Tyr His Asp Ser Pro Leu Ile Trp Arg Ser Trp His Trp Ile Arg Tyr
20 25 30
Asn Ala Gly Ser Val Ala His Ala Val Leu Arg Pro Arg Gly Met Ser
35 40 45
Trp Thr Pro Arg Pro Leu Asp Leu Gly Val Gly Thr Ser Phe Asp Gln
50 55 60

```
His Val Ile Arg Gly Tyr Arg Phe Leu Ala Arg Arg Trp Val Pro Gly
65                  70                  75                  80
Ala Lys Ile Tyr Leu Phe Gly Phe Ser Arg Gly Ala Tyr Thr Ala Arg
                85                  90                  95
Phe Leu Asn Glu Met Leu Asp Tyr Val Gly Leu Leu Ser Ala Asp Asn
            100                 105                 110
Glu Glu Leu Ile Pro Phe Val Trp Glu Ala Phe Thr Gln Trp Lys Phe
        115                 120                 125
Ser Glu Gly Glu Lys Pro Glu Glu Arg Leu Gly Ala Met Arg Ser Leu
    130                 135                 140
Ser Val Ser Arg Glu Thr Met Cys Arg Pro Val Gly Gln Val His Phe
145                 150                 155                 160
Leu Gly Leu Phe Asp Thr Val Asn Ser Val Ala Glu Phe Asn Lys Glu
                165                 170                 175
Ser Ser Thr Arg Pro Ser Pro Lys Ile Met Arg His Ala Val Ser Ile
            180                 185                 190
Asp Glu Arg Arg Ile Lys Phe Gln Pro Val Leu Phe Glu Ser Lys Leu
        195                 200                 205
Gly Thr Gly Ser Pro Asp Met Lys Gln Ser Val Asp Asp Trp Lys Lys
    210                 215                 220
Gly Pro Glu Asn Ile Tyr Asp Thr Asp Asn Asp Gly Glu Phe Ser Ile
225                 230                 235                 240
Leu Glu Ala Asp Phe Lys Glu Val Tyr Phe Ala Gly Asn His Gly Asp
                245                 250                 255
Val Gly Gly Gly Trp Pro Ser Lys Ser Trp Pro Ala Ser Gln Ile Pro
            260                 265                 270
Leu Thr Trp Met Val Gln Glu Ala Ile Lys Ala Gly Leu Thr Phe Glu
        275                 280                 285
Ser Asn Lys Leu Glu Val Leu Gly Cys Gln Asp Pro Ala Thr Cys Gly
    290                 295                 300
Ser Gly Gln Asp Ile Val Arg Gln Ala Glu Arg Leu His His Gly Ala
305                 310                 315                 320
Gly Arg Ile Asp Ser Val Leu Thr Thr
                325
```

<210> 25372
<211> 158
<212> PRT
<213> A.fumigatus

<400> 25372

```
Lys Arg Met Asn Gln Lys Pro Ser Val Gly Ser Pro Glu Trp His Gln
1               5                   10                  15
Ile Arg Lys Asn Asn His Lys Glu Gly Lys Leu Arg Gln Leu Phe Cys
            20                  25                  30
Gly Ala Ile Gln Ala Asn Ser Ile Ser Val Glu Arg Arg Arg Arg Glu
        35                  40                  45
Ala Ile Asn Glu Gly Ile Asn Gln Leu Ala Arg Leu Val Pro Asn Cys
    50                  55                  60
Asp Lys Asn Lys Gly Ala Ile Leu Gln Arg Thr Ile Glu Tyr Ile Cys
65                  70                  75                  80
Gln Leu His Asp Glu Lys Lys Thr Met Ser Glu Arg Trp Glu Gln Asn
                85                  90                  95
Asn Met Thr Thr Ser His Ala Ile Asn Glu Ile Ser Ala Gln Asn Ser
            100                 105                 110
Lys Leu Lys Leu Glu Val Asn Arg Arg Gly Asp Ile Ala Gln Lys Trp
```

```
        115                 120                 125
Leu Gln Arg Cys Arg Asp Ala Gly Leu Glu Phe Asp Asp Tyr Asn Asp
    130                 135                 140
Ala Glu Glu Leu Glu Pro Leu Glu Val Asp Gln Gly Gln Val
145                 150                 155

<210> 25373
<211> 116
<212> PRT
<213> A.fumigatus

<400> 25373
Leu Tyr Thr Leu Ala Glu His Lys Phe His Ala Leu Gly Ser Asp Val
1               5                   10                  15
Ser Val Ala Tyr Gln Pro Glu Asp Leu Ile Arg Asn Pro Pro Arg Pro
            20                  25                  30
Ser Asp Val Thr Leu Glu Leu Leu Leu Ala Ser Gln Thr His Leu Gly
        35                  40                  45
His Tyr Thr Ser Arg Trp Asn Pro Gln Asn Ser Arg Tyr Ile Phe Gly
    50                  55                  60
Ile Arg Glu Gly Val His Ile Ile Ser Leu Asp Val Thr Ala Ala Tyr
65                  70                  75                  80
Leu Arg Arg Ala Ala Lys Val Val Glu Glu Val Ala Ala Arg Gly Gly
                85                  90                  95
Leu Ile Leu Phe Val Gly Thr Arg Trp Ala Met Asp Pro Pro Gly Ser
            100                 105                 110
Lys Val Thr Arg
        115

<210> 25374
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25374
Asn Ser Gln Leu Leu Pro Ser Leu Phe Leu Thr Ser Ser Ala Phe Phe
1               5                   10                  15
Gln Phe Thr Met Gln Ile Leu Asp Ser Gly Glu Lys Ile Thr Pro Glu
            20                  25                  30
Ala Leu Ile Pro Lys Phe Glu Val Asn Arg Leu Leu Lys Gln Gly Lys
        35                  40                  45
Asn His Leu Leu Ser Arg Phe Arg Cys Thr Ser Ser Pro Gly Ala Gln
    50                  55                  60

<210> 25375
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25375
Arg Gly Ser Ile Val Ser Tyr Val Val Leu Phe Val Phe Ala Trp Asp
1               5                   10                  15
Glu Ala Ala Ala Leu Met Met Leu Trp Gln Val Tyr Phe Gly Phe Thr
            20                  25                  30
His Cys Pro Asp Ile Cys Pro Asp Glu Leu Asp Lys Met Ala Glu Ile
        35                  40                  45
```

```
Ile Asp Arg Val Lys Glu Ala Thr Lys Gly Glu Asn Ile Phe Leu Pro
    50                  55                  60
Val Phe Ile Thr Cys Asp Pro Ala Arg Asp Thr Pro Gln Val Leu Arg
65                  70                  75                  80
Glu Tyr Leu Lys Glu Phe His Pro Asp Ile Ile Gly Leu Thr Gly Thr
                85                  90                  95
Tyr Glu Gln Val Lys His Val Cys Lys Gln Tyr Arg Val Tyr Phe Ser
            100                 105                 110
Thr Pro Lys Asp Val Lys Pro Gly Glu Asp Tyr Leu Val Asp His Ser
        115                 120                 125
Ile Tyr Phe Tyr Leu Met Gly Glu Ser Arg Phe Pro Arg Val Lys
    130                 135                 140
```

<210> 25376
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25376

```
Thr Glu Pro Asp Leu Tyr Leu Tyr Met Tyr Ile Arg Pro Asp Leu Ser
1               5                   10                  15
Asn Pro Arg Leu Tyr Phe Pro Pro Ser Val Glu Asp Asn Ile Leu Pro
            20                  25                  30
Ser Ala Ser Leu Ser Leu Phe Ser Leu His Ser Ile Pro Pro Ser Thr
        35                  40                  45
Asn Ser Ser Leu Phe Gln Ile Ser Thr Phe Ser Phe Thr Ser Ser Ser
    50                  55                  60
Thr Ser Ser Ala Ala Phe His Ala Ile Pro Arg Cys Pro Ala Leu Thr
65                  70                  75                  80
Ala Asn His Asn
```

<210> 25377
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25377

```
Tyr Trp Glu Asp Pro Pro Phe Ser Trp Lys Ala Ala Leu Leu Phe Val
1               5                   10                  15
Leu Thr Gly Ala Gly Met Ile Val Tyr Phe Arg Val Glu Lys Glu Arg
            20                  25                  30
Leu Glu Arg Lys Arg Ile Ala Glu Met Ser Lys Gly Val Gly Arg Pro
        35                  40                  45
Lys Val Gly Gly Pro Phe Thr Leu Thr Asp Leu Asp Gly Lys Glu Phe
    50                  55                  60
Thr Ala Glu Asp Leu Lys Gly Lys Tyr Ser Phe Val Cys Gly Pro Leu
65                  70                  75                  80
Cys Leu Cys Leu Gly
                85
```

<210> 25378
<211> 183
<212> PRT
<213> A.fumigatus

<400> 25378
Arg Thr Asp Ile Leu Gly Leu Pro Ile Gly Gln His Ile Ser Leu Ala
1 5 10 15
Ala Thr Ile Glu Gly Gln Pro Lys Glu Val Val Arg Ser Tyr Thr Pro
20 25 30
Ile Ser Ser Asp Asn Glu Ala Gly Tyr Phe Asp Leu Leu Val Lys Ala
35 40 45
Tyr Pro Gln Gly Asn Ile Ser Lys Tyr Leu Thr Thr Leu Lys Ile Gly
50 55 60
Asp Thr Met Lys Val Arg Gly Pro Lys Gly Ala Met Val Tyr Thr Pro
65 70 75 80
Asn Met Cys Arg His Ile Gly Met Ile Ala Gly Gly Thr Gly Ile Thr
85 90 95
Pro Met Leu Gln Ile Ile Lys Ala Val Ile Arg Asn Arg Pro Arg Asn
100 105 110
Gly Gly Asn Asp Thr Thr Lys Leu Asp Leu Ile Phe Ala Asn Val Asn
115 120 125
Pro Asp Asp Ile Leu Leu Lys Glu Glu Leu Asp Met Leu Ala Ala Glu
130 135 140
Asp Pro Asp Phe Asn Ile Tyr Tyr Val Leu Asn Asn Pro Pro Gln Gly
145 150 155 160
Trp Thr Gly Gly Val Gly Phe Val Thr Pro Glu Met Ile Lys Val Arg
165 170 175
Ile Ile Ser Pro His Ala Asp
180

<210> 25379
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25379
Ile Gly Ser Leu Ala Asp Leu Ile Ser Ser Gln Glu His Leu Pro Ala
1 5 10 15
Pro Ala Ser Asp Val Lys Ile Leu Leu Cys Gly Pro Pro Pro Met Ile
20 25 30
Ser Ala Met Lys Lys Ala Thr Glu Ser Leu Gly Tyr Thr Lys Ala Arg
35 40 45
Pro Val Ser Lys Leu Glu Asp Gln Val Phe Cys Phe
50 55 60

<210> 25380
<211> 406
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (41)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25380
Phe Ser Gln Ser Arg Pro Gly Ala Phe Phe Met Val His Phe Arg Ser
1 5 10 15
Lys Glu Leu Thr Lys Leu Ser Pro Phe Gly Lys Trp Cys Asn Ala Phe
20 25 30

```
Gly Ile His Gly Gly Phe Met Ile Xaa Gln Asp Asp Val Asp Thr Tyr
        35                  40                  45
Thr Cys His Glu Pro Cys Ser Ala Asn Ala Ala Ala Ile Arg Asp Leu
    50                  55                  60
Gln Glu His Pro Glu Asp Val Pro Tyr Arg Val Leu Gly Ser Leu Gly
65                  70                  75                  80
Lys Pro Tyr Lys Phe Gln Ile Asp Glu Ile Met Leu Ala Asn Ala Trp
                85                  90                  95
Arg Pro Asn Phe Ala Leu Ala Asp Ser Tyr Val Ser Arg Asp Gly Gln
            100                 105                 110
Gly Arg Val Phe Leu Gly Gly Asp Ala Ala His Gln Asn Pro Pro His
        115                 120                 125
Gly Gly Tyr Gly Met Asn Ser Gly Ile Glu Asp Ala Ile Ser Leu Ala
    130                 135                 140
Trp Arg Leu Ser Ala Leu Tyr Lys Gly Ile Gly Gly Gly Asn Leu Ile
145                 150                 155                 160
Thr Ser Tyr Thr Asn Glu Arg Arg Pro Asn Met Met Leu Arg Leu Glu
                165                 170                 175
Arg Cys Ala Ala His Ile Gly Lys Phe Thr Pro Met Ile Met Arg Thr
            180                 185                 190
Met Met Ala Pro Ser Thr Glu Ile Phe Leu Glu Glu Ser Glu Glu Gly
        195                 200                 205
Glu Lys Ala Arg Ala Glu Ile Ala Thr His Leu Asp Ser Val Gly Pro
    210                 215                 220
Glu Asn Ile Asp Arg Gly Val Glu Leu Asp Leu Arg Tyr Leu Asn Ser
225                 230                 235                 240
Glu Ile Ile Val Ser Asp Gly Thr Arg Glu Pro Arg Phe Asp Asn Met
                245                 250                 255
Arg Tyr Thr Pro Ser Thr Arg Pro Gly His Arg Ala Pro His Val Phe
            260                 265                 270
Leu Arg Asp Asp Gln Thr Ser Ile Val Asp Leu Tyr Gly Thr Glu Trp
        275                 280                 285
Ser Leu Met Asp Phe Ser Lys Val Lys Ser Asp Ser Gln Thr Thr Asn
    290                 295                 300
Gly Phe Val Ser Leu Asp Gly Glu Met Thr Ser Pro Val Ala Thr Phe
305                 310                 315                 320
Lys Ala Val Ala Lys Ala Met Gln Met Pro Leu Thr His Val Gln Leu
                325                 330                 335
Asp Ala Gly Glu Lys His Val Lys Glu Val Trp Glu Asn Tyr Asp Tyr
            340                 345                 350
Val Leu Val Arg Pro Asp Gly Tyr Val Ala Trp Arg Gly Gly Lys Glu
        355                 360                 365
Gly Ala Arg Asp Glu Cys Cys Glu Leu Asn Glu Gly Arg Ile Arg Asn
    370                 375                 380
Ile Leu Arg Ile Ala Leu Gly Trp Lys Thr Phe Phe Thr His Arg Gly
385                 390                 395                 400
Trp Lys Asp Thr Arg Tyr
                405
```

<210> 25381
<211> 209
<212> PRT
<213> A.fumigatus

<400> 25381
Pro Leu Asp Gln Asp Asp Leu Glu Asp Glu Gln Gln Glu Phe Val Trp

```
1               5                   10                  15
Asp Arg Cys Leu Asn Asp Gln Met Phe Val Phe Gln Glu His Glu Leu
            20                  25                  30
Glu Arg Ile Leu Asp Ile Ile Ile Thr Asn Met Thr Pro Gln Arg Ser
        35                  40                  45
Pro Ser Gln Lys Pro Val Pro Ala Asn Leu Leu Phe Leu Ser Ala Arg
    50                  55                  60
Tyr Ala His Tyr His Ala Ser Pro Glu Leu Leu Ala Asp Leu Leu Asn
65                  70                  75                  80
Ser Ala Thr Glu Lys Ile Asn Asp Val Val Glu Arg His Gln Trp Asp
                85                  90                  95
Met Thr Ile Leu Ala Phe Trp Met Ser Asn Ala Thr Leu Leu Leu His
            100                 105                 110
Tyr Leu Lys Lys Asp Ala Gly Leu Val Gly Ser Thr Val Glu Phe Gln
        115                 120                 125
Leu His Leu Ala Glu Leu Ile Asn Glu Ile Phe Ile Leu Ile Ile Arg
    130                 135                 140
Asp Ala Glu Arg Arg Met Asn Lys Val Leu Asp Ala Ala Met Leu Asp
145                 150                 155                 160
His Glu Thr Ile Pro Gly Leu Glu Asp Val Ala Phe Gln Asn Glu Trp
                165                 170                 175
Lys Leu Phe Arg Pro Lys Asn Lys Thr Lys Ala Pro Glu Pro Ala Glu
            180                 185                 190
Lys Arg Phe Arg Leu Thr Arg Pro Gly Met Gly Pro Ser Ala Ser Pro
        195                 200                 205
Asn
```

<210> 25382
<211> 196
<212> PRT
<213> A.fumigatus

<400> 25382

```
Trp His Thr Arg Ile Cys Cys Ala Ala Val Val Ala Gly Ser Val Tyr
1               5                   10                  15
Lys Asp Val Leu Ser Thr Thr Thr Gly Trp Leu Gly His Asp Tyr Ala
            20                  25                  30
Lys Ser Pro Trp Gln Leu Met Leu Ser Pro Met Pro Ala Gly Gln Ser
        35                  40                  45
Gln Phe Leu Thr Thr Pro Ile Ala Ala Lys Pro Leu Ser Phe Ser Leu
    50                  55                  60
Ala Leu Asp Asp His Ser His Asp Asp Glu His Thr Leu Gln Ala His
65                  70                  75                  80
Tyr Gly Arg Gly Leu Val Ala Ser Leu Asp Asp Asp Asn Ala Ser Thr
                85                  90                  95
Ile Thr Ala Arg Leu Glu Asp Ser Asp Ala Arg Leu Met Glu Met Leu
            100                 105                 110
Ala Ala Gln Ala Ala His Arg Glu Leu Glu Ser Leu Asp Ala Asp Glu
        115                 120                 125
Asp Ala Ile Ala Ser Asp Glu Lys Leu Thr Asp Glu Glu Lys Arg Lys
    130                 135                 140
Ile Leu Gln Arg Ser Leu Asn Met Ala Ala Ser Asn Gly Asp Val Asp
145                 150                 155                 160
Arg Val His Lys Leu Val Gly Gly Lys Ala Lys Asp Tyr Val Asp Val
                165                 170                 175
```

```
Asn Met Ala Asp Glu Glu Gly Thr Val Pro Leu Ile Tyr Ala Ser Cys
            180                 185                 190
Phe Val Arg Asn
        195
```

<210> 25383
<211> 183
<212> PRT
<213> A.fumigatus

<400> 25383

```
Ser Met Arg Ala Val Leu Cys Val Ile Lys Ile Ile Phe Leu Leu Val
1               5                   10                  15
Gly Cys Gly Thr Asp Gly Glu Gln Gly His Gln Asp Val Val Ser Ala
            20                  25                  30
Leu Leu Asp Ala Gly Ala Asn Val Asp Gln Gln Asp Arg Asn Gln Trp
        35                  40                  45
Ser Ala Leu Met Trp Ala Met Thr Asn Arg His Lys Thr Ile Ala Lys
    50                  55                  60
Ile Leu Leu Asp His Gly Ala Ser Pro Asp Ile Lys Ser Ser Ser Gly
65                  70                  75                  80
Gly Thr Ala Phe Asp Phe Ala Gln Pro Gly Ser Glu Ile Ser Glu Tyr
                85                  90                  95
Leu His Glu Asn Gly Tyr Asn Phe Gly Pro Ser Ala Ile Glu Asp Asp
            100                 105                 110
Phe Tyr Asp Ser Gly Phe Ala His Gly Arg Phe Glu Glu Glu Met Ala
        115                 120                 125
Glu Asn Glu Met Lys Arg Arg Met Met Met Glu Glu Ser Ala Ile Asn
    130                 135                 140
Leu Glu Val Asp Leu Ser Ser Leu Gly Leu Asp Glu Lys Phe Glu Val
145                 150                 155                 160
Gly Thr Pro Phe Arg Arg Asp Val Asn Asp Ala Asp Arg Val Ala Ala
                165                 170                 175
Arg Pro Gly Arg Ser Gly Arg
            180
```

<210> 25384
<211> 123
<212> PRT
<213> A.fumigatus

<400> 25384

```
Gly Ile Gln Leu Lys His Phe Gly Lys Leu Pro Val Ile Gly Gly Arg
1               5                   10                  15
Asn Cys Gln Ser Val Thr Gln Thr Pro Ala His Gly Glu Thr Phe Lys
            20                  25                  30
Ile Gly Glu Arg Ile Ser Val Lys Ala Leu His Thr Pro Cys His Thr
        35                  40                  45
Gln Asp Ser Ile Cys Tyr Tyr Met Gln Asp Gly Asp Glu Lys Val Val
    50                  55                  60
Phe Thr Gly Asp Thr Leu Phe Ile Ala Gly Glu Thr Ser Ile Leu Trp
65                  70                  75                  80
Cys Ile Arg Met Asn Leu Thr Leu Ala Gly Cys Gly Arg Phe Phe Glu
                85                  90                  95
Gly Asn Ala Gln Glu Met His Lys Ala Leu Asn Glu Thr Leu Ala Ser
            100                 105                 110
```

Leu Pro Asp Asp Thr Arg Val Tyr Val Ser Arg
115 120

<210> 25385
<211> 126
<212> PRT
<213> A.fumigatus

<400> 25385
Phe Leu Ser Pro Glu Leu Leu Asn Gly Phe Val Ile Leu Leu Gly Ser
1 5 10 15
Thr Thr Pro Thr Ser Leu Ser Lys Arg Asn Pro Tyr Thr Ser Leu Ser
20 25 30
Asn Ser Cys Asn Asn Pro Phe Arg Thr Phe Gly Arg Phe Asn Cys Ile
35 40 45
Phe Ser Pro Ser Phe Ala Pro Ile Leu Arg Lys Leu Ser Ala Ser Arg
50 55 60
Pro Thr Arg Val Val His Ala Asp Asn Ile Pro Asp Ser Asn Ser Val
65 70 75 80
Arg Thr Lys Pro Arg Phe Thr Val Ser Ser Ser Ser Val Ile Val Asp
85 90 95
Leu Val Arg Pro Arg Phe Ala Arg Arg Tyr Thr Cys Ile Arg Ser Glu
100 105 110
Leu Ala Asp Asn Ala Pro Ala Gln Ser Gly Ser Ala Leu Arg
115 120 125

<210> 25386
<211> 315
<212> PRT
<213> A.fumigatus

<400> 25386
Ile Ala Tyr Val Ser Ser Met Asn Gln Thr Met Glu Lys Met Ala Lys
1 5 10 15
Met Thr Asp Ser Glu Tyr Ser His Phe Met Arg Val Ala Phe Gly His
20 25 30
Thr Ala Pro Met Gln Pro Asp Tyr Gly Ala Ile Gly Pro Leu Glu Phe
35 40 45
Val Asp Pro Thr Leu Asn Asp Ser Gln Lys Glu Ala Ile Arg Phe Ala
50 55 60
Leu Ala Ala Arg Asp Val Ala Leu Ile His Gly Pro Pro Gly Thr Gly
65 70 75 80
Lys Thr His Thr Leu Ile Glu Leu Ile Leu Gln Met Val Lys Arg Lys
85 90 95
Leu Arg Val Leu Val Cys Gly Pro Ser Asn Ile Ser Val Asp Asn Ile
100 105 110
Val Glu Arg Leu Ala Pro Asn Gly Val Pro Val Val Arg Ile Gly His
115 120 125
Pro Ala Arg Leu Leu Pro Ser Val Leu Glu His Ser Leu Glu Val Leu
130 135 140
Thr His Thr Ser Glu Ala Ala Ala Ile Ile Lys Asp Val Arg Lys Glu
145 150 155 160
Ile Asp Glu Lys Gln Ala Ser Ile Arg Lys Thr Arg Thr Gly Arg Glu
165 170 175
Arg Arg Ala Ile Tyr Asp Asp Leu Lys Glu Leu Arg Arg Glu Phe Arg
180 185 190

```
Glu Arg Glu Ser Arg Cys Val Asp Asn Leu Val Arg Glu Ser Asn Val
        195                 200                 205
Val Leu Ala Thr Leu His Gly Ala Gly Gly His Gln Leu Lys Asn Gln
    210                 215                 220
Lys Phe Asp Val Val Val Ile Asp Glu Ala Ser Gln Ala Leu Glu Ala
225                 230                 235                 240
Gln Cys Trp Ile Pro Leu Phe Ala Thr Ser Lys Val Val Leu Cys Arg
                245                 250                 255
Arg Pro Thr Glu Asp Ser Pro Tyr Arg Lys Ala Phe Leu Cys Gln Leu
            260                 265                 270
Glu Asn Pro Gly Lys Lys Glu Gly Phe Asn Pro Lys Val Gly Leu Thr
        275                 280                 285
Gln Phe Leu Arg Glu Thr Met Ala Asn Phe Leu Gly Lys Thr Ser Phe
    290                 295                 300
Gly Asp Asn Ser Ser Leu Glu Gly Asp Pro Val
305                 310                 315
```

<210> 25387
<211> 64
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (18),(19),(21),(22),(23),(24),(25),(26),(27),(28),(32),(49)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25387
```
Phe Leu Leu Cys Ile Arg Glu Lys Ser Arg Arg Glu Phe Ser Tyr Phe
1               5                   10                  15
Leu Xaa Xaa Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Phe Phe Xaa
            20                  25                  30
Leu Tyr Pro Val Glu Leu Leu Ser Gly Arg Gly Pro Leu Gly Leu Pro
        35                  40                  45
Xaa Pro Pro Tyr Arg Glu Leu Gly Leu Lys Gly Asn Pro Leu Gly Thr
    50                  55                  60
```

<210> 25388
<211> 96
<212> PRT
<213> A.fumigatus

<400> 25388
```
Thr Arg His Gln Pro Asn Thr Asn Leu Thr Ala Asn Gly Asn Asn Met
1               5                   10                  15
Glu Thr Gln Thr Trp Leu Ile Val Gly Ala Ser Arg Gly Ile Gly Leu
            20                  25                  30
Glu Phe Val Arg Gln Leu Leu Thr Ser Gly His Arg Val Ile Ala Thr
        35                  40                  45
Ala Arg Gly Pro Gly Ser Ala Leu Asp Thr Ile Ala Arg Asp Ala Pro
    50                  55                  60
Asp Arg Ala Thr Ile Leu Thr Cys Asp Val Ser Lys Asn Glu Ser Ile
65                  70                  75                  80
Met Val Cys Ile Cys Ile Pro Ile Cys Tyr Gln Leu Arg Gln Arg Tyr
                85                  90                  95
```

<210> 25389
<211> 209
<212> PRT
<213> A.fumigatus

<400> 25389
Tyr Lys Gln His Asn Leu Thr His Pro Ala Ala Ile Leu Gln Asn Cys
1 5 10 15
Gln Gln Leu His Arg His Glu Leu Thr Arg Ala Asp Lys Asp Gln Ser
20 25 30
Asn Ala Glu Met Ser Arg Thr Val Cys Ile Thr Ala Val Asp Gly His
35 40 45
Thr Gly Phe Leu Ile Ala Glu Leu Leu Leu Thr Asn Glu Thr Phe Lys
50 55 60
Ser His Ile Lys Ser Val Ala Gly Leu Thr Leu His Pro His Ala Ala
65 70 75 80
Lys Cys Lys Glu Leu Ala Lys Leu Gly Val Lys Ile Val Pro His Glu
85 90 95
Pro Gly Arg Leu Lys His Thr Val Gln Thr Leu Gln Gln Ile Gly Ala
100 105 110
Glu Ala Met Cys Leu Ile Pro Pro Ala His Lys Glu Lys Phe Asp Ile
115 120 125
Thr Met Glu Met Ile Glu Ala Ala Lys Lys Ala Asn Val Ala Asn Val
130 135 140
Cys Phe Val Ser Ser Ala Gly Cys Asp Leu Ala Glu Arg Asp Lys Gln
145 150 155 160
Pro His Leu Arg Ser Phe Ile Asp Leu Glu Ala Ala Phe Met Ala Ser
165 170 175
Lys Gly Asp Ser Ser Thr Gln Thr Gly His Ser Pro Val Val Val Arg
180 185 190
Tyr Ser Pro Pro Ser Leu Tyr Pro Cys Leu Phe Ala Arg Gln Trp Ala
195 200 205
Ile

<210> 25390
<211> 175
<212> PRT
<213> A.fumigatus

<400> 25390
Arg Arg Lys Arg Gly Ala Asp Glu Gly Arg Asp Ala Leu Arg Arg Ala
1 5 10 15
Gln Lys Leu Arg Ile Gly Ala Arg Ser Ile Pro Gly Val Pro Ile Val
20 25 30
Tyr Val Lys Arg Ser Val Met Ile Leu Glu Pro Met Ser Thr Pro Ser
35 40 45
Glu Glu Val Arg Asp Gly Val Glu Asn Arg Lys Phe Arg Val Gly Leu
50 55 60
Asn Asp Glu Ala Val Leu Gly Lys Arg Lys Arg Thr Glu Asp Gly Glu
65 70 75 80
Glu Lys Lys Lys Lys Arg Gly Pro Lys Lys Pro Lys Gly Pro Asn Pro
85 90 95
Leu Ser Val Lys Lys Pro Lys Lys Lys Pro Ala Glu Thr Ala Ser Gly
100 105 110
Pro Lys Gln Glu Lys Arg Lys Glu Gln Lys Leu Asp Glu Ala Pro Asp

```
        115                 120                 125
Arg Thr Asn Asp Asp Gly Glu Ser Gly Ala Pro Lys Pro Lys Arg Arg
    130                 135                 140
Arg Arg His His Lys Ser Ser Lys Gly Asp Gly Asn Asp Asp His Ala
145                 150                 155                 160
Gly Glu Pro Ser Asn Gly Ala Asp Ala Ala Thr Ala Ser Asn Glu
                165                 170                 175
```

<210> 25391
<211> 120
<212> PRT
<213> A.fumigatus

<400> 25391

```
Met Gly Val Val Ala Ser Arg Ser Tyr Val Cys Gly Trp Ser Leu Pro
1               5                   10                  15
Val Pro Met Ser Pro Gln Leu Thr Gly Gly Leu Glu Ser Arg Phe Glu
            20                  25                  30
Asn Phe Asp Glu Tyr Thr Arg Arg Gln Tyr Asn Ala Lys Ala Pro His
        35                  40                  45
Leu Pro Asn Pro Phe Gly Tyr Asp Glu Val Pro Asn Lys Phe Ser Glu
    50                  55                  60
Phe Asp Val Phe Gln Lys Leu Arg Val Leu His Gln Leu Ser Val Trp
65                  70                  75                  80
Thr Phe Trp Asn Pro Asp Arg Ile Arg Glu Lys Met Pro Glu Gln Lys
                85                  90                  95
Glu Ile Asp Gln Thr Gln Trp Val Gly Lys Ile Pro Pro Ser Ala Val
            100                 105                 110
Asp Leu Gly Leu Pro Gln Arg Cys
        115                 120
```

<210> 25392
<211> 110
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(99)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25392

```
Asp Ile Pro Xaa Thr Gly Cys Ser Ser Thr Ile Arg Asn Ile Glu Phe
1               5                   10                  15
Ile Lys Ala Leu Pro Ser Ile Thr Ile Thr Lys Leu Ile Asp Gly Ile
            20                  25                  30
Thr Val Leu Gly Ile Arg Ser Arg His Arg Ser Asn His Ser Ala Met
        35                  40                  45
Leu Thr Leu Trp Phe Pro Arg Leu Met Asn Asn Ser Gly Ser Ala Asn
    50                  55                  60
Ile Phe Ala Lys Ile Thr Ile Tyr Tyr Tyr Leu Val Asn Gly Leu Lys
65                  70                  75                  80
Pro Lys Leu Leu Ile Arg Thr Asn Ile Ile Cys Ser Glu Gly Phe Ile
                85                  90                  95
Leu Asn Xaa Lys His Ser Ile Ala Ile Ile Ser Ser Tyr Ser
            100                 105                 110
```

<210> 25393
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25393
Arg Ser Leu Leu Leu Val Tyr Leu Val Ser Lys Leu Val Val Tyr Leu
1 5 10 15
Lys Thr Asn Leu Leu Ala Asn Tyr Asn Phe Ile Phe Asn Leu Leu Asp
20 25 30
Lys Ser Thr Leu Asn Arg Ala Thr Ile Tyr Val Tyr Ile Ile Asn Tyr
35 40 45
Lys Phe Ser Phe Ile Lys Val Cys Asn Lys Thr Pro Thr Leu Ile Ile
50 55 60
Val Thr Tyr Tyr Thr Tyr Ile Gly Thr Ile Ser Asn Thr Asn Phe Ile
65 70 75 80
Thr Ala Tyr

<210> 25394
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25394
Tyr Lys Asn Met Tyr Leu Tyr Ser Asn Thr Leu Ser Arg Cys Glu Tyr
1 5 10 15
Phe Asn Thr Thr Leu Tyr Gln Thr Met Gln Leu Ala Glu Asn Leu Ile
20 25 30
Ala Pro Ser Arg Pro Thr Met Leu Ile Thr Lys Lys Lys Lys Gly Gly
35 40 45
Gly Gly Gly Gly Asn Glu Ile Glu Ala Ser Ile Ser Met Gln Leu Phe
50 55 60
Asn Ala Ala Tyr Ala Lys Gly Ile Lys Met Ser Glu Arg Leu
65 70 75

<210> 25395
<211> 174
<212> PRT
<213> A.fumigatus

<400> 25395
Leu Ile Ser Arg Gln Ser Leu Ser Leu Leu Ser Pro Thr Ala Pro Arg
1 5 10 15
Leu Thr Ser Leu Ser Leu His His Pro Leu Asn Gln His His Ala His
20 25 30
Thr Met Ala Ser Pro Ala Gln Ala Gln Ala Pro Ala Ser Thr Ser Asn
35 40 45
Gln Pro Leu Thr Pro Pro Ala Glu Pro Ser Ser Thr Asn Asn Thr Ala
50 55 60
Asn Thr Thr Ala Ser Gln Pro Pro His Pro Thr Gly Thr Ser Thr Thr
65 70 75 80
Ala Pro Asn Thr Ala Met Pro Ser Thr Thr Pro Gln Pro Thr Gln Ile
85 90 95
Pro Ser Thr Ser Leu Thr Asp Ser Gly Lys Ser Arg Arg Pro Arg Asp

```
            100                 105                 110
Val Arg Leu Ile His Met Leu Leu Ala Ser Leu Gly Val Thr Ala Tyr
        115                 120                 125
Gln Glu Arg Val Pro Leu Gln Leu Leu Asp Phe Ala Tyr Arg Tyr Thr
    130                 135                 140
Ser Cys Val Leu His Glu Ala Val His Pro Arg Thr Glu Gly Tyr Ala
145                 150                 155                 160
Gly Gly Pro Arg Asn Arg Ala Glu Gln Gln Ser Trp Ala Ser
                165                 170
```

<210> 25396
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25),(78)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25396

```
Gln Ser Met Cys Glu Leu Ile Phe His Ser Ile Ala Asn Leu Val Gly
1               5                   10                  15
Ser Cys Trp Phe Arg Phe Ile Val Xaa Ile Leu Asp Ala Gln Lys Arg
            20                  25                  30
Ile Gly Thr Ala Asp Ile Ser Tyr Ser Gly Val Ile Pro Ser Glu Glu
        35                  40                  45
Glu Asn Pro Ala Arg Pro Ser Val Tyr Pro Gly Leu Asp Asn Val Arg
    50                  55                  60
His Ser Leu His Asn Gln Lys Trp Gly Gly Pro Leu Met Xaa Ser Ile
65                  70                  75                  80
Ile
```

<210> 25397
<211> 145
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (103),(110),(111)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25397

```
Thr Gln His Ala Pro Ser His Pro Val Ala Ser Ala Cys Pro Leu Ser
1               5                   10                  15
Lys Ala Pro Asn Pro Lys Lys Gly Glu Lys Gly Glu Lys Thr Pro Arg
            20                  25                  30
Phe Phe Leu Gly Val Phe Trp Gly Phe Lys Thr Pro Ala Pro Gly Pro
        35                  40                  45
Leu Leu Lys Asn Pro Pro Lys Arg Gly Gly Gly Pro Asn Phe Pro Pro
    50                  55                  60
Pro Lys Gly Pro Gly Pro Lys Ile Phe Leu Gly Lys Lys Phe Ser Pro
65                  70                  75                  80
Pro Pro Arg Gly Leu Cys Pro Pro Pro Pro Lys Asn Arg Gly Gly Gly
```

```
                85                  90                  95
Gly Val Phe Phe Phe Phe Xaa Pro Pro Pro Pro Ala Ala Xaa Xaa Lys
            100                 105                 110
Lys Lys Ala Pro His Lys Ile Phe Trp Gly Pro Pro Pro Gly Pro Pro
        115                 120                 125
Arg Gly Gly Gly Glu Lys Asn Thr Leu Phe Phe Phe Phe Val Trp Gly
    130                 135                 140
Ala
145
```

<210> 25398
<211> 106
<212> PRT
<213> A.fumigatus

<400> 25398

```
Ala Pro Gly Glu Asp Leu Ser Gly Arg Ile Ile Asn Ile His His Ser
1               5                   10                  15
Phe Leu Pro Ser Phe Lys Gly Ala Lys Pro Tyr His Gln Ala Tyr Asp
            20                  25                  30
Arg Gly Val Lys Ile Ile Gly Ala Thr Ala His Phe Val Thr Ser Asp
        35                  40                  45
Leu Asp Glu Gly Pro Ile Ile Glu Gln Asn Val Val Arg Val Asn His
    50                  55                  60
Ala Leu Ser Pro Lys Glu Leu Thr His Ala Gly Ser Asn Val Glu Ser
65                  70                  75                  80
Asn Val Leu Ala Thr Ala Val Lys Tyr Val Thr Glu Arg Arg Val Leu
                85                  90                  95
Leu Asn Gly His Lys Thr Val Val Phe Ala
            100                 105
```

<210> 25399
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25399

```
Ser Cys Arg Asp Gln Leu Tyr Thr Asp Ile Lys Ile Asn Asp Thr Leu
1               5                   10                  15
Cys Glu Arg Tyr Gln Thr His Met Ala Arg Tyr Gly Arg Lys Ile Thr
            20                  25                  30
Lys Ser His Asp Lys Val Met Thr Gly Ser Ser Asp Ile Gly Arg Phe
        35                  40                  45
Phe Phe Phe Phe Phe Phe Val Ser Ser Ser Thr Asp Tyr Ser
    50                  55                  60
```

<210> 25400
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25400

```
Gly Thr Leu Pro Asp Gly Lys Glu Ala Met Gly Asp Gly Asp Arg Gly
1               5                   10                  15
Val Ile Phe Phe Leu Ser Thr Glu Tyr Phe Gln Arg Val Tyr Tyr Met
            20                  25                  30
```

```
Gln Thr Ala Pro Arg Arg Leu Pro Phe Asp Ile Asn Ala Ser Cys Pro
        35                  40                  45
Leu Lys Pro Met Asn Ser Ala Ile Gly Ile Ser Ser Lys Asp Asp Asp
    50                  55                  60
Ser Leu Glu
65
```

<210> 25401
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25401

```
Ser Thr Ala Ile Leu Trp Gln Ser Ala Arg His Arg Val Val Ser Arg
1               5                   10                  15
Leu Ser Gly Val Thr Pro Ala Gly Arg Thr Val Pro Phe Glu Ser Pro
            20                  25                  30
Tyr Phe Ser Thr Gly Ile Trp Thr Ile Met Ser Met Thr Gln Thr Leu
        35                  40                  45
Val Cys Tyr Glu Lys Leu Gln Arg Ile Ser Asn Lys Leu Ser Leu Gly
    50                  55                  60
Ile Leu
65
```

<210> 25402
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25402

```
Ser Met Thr Cys Lys Ser Gly Lys Lys Lys Val Pro Trp Val Leu Leu
1               5                   10                  15
Leu Phe Leu Lys Leu Val Pro Phe Cys Lys Ala Pro Tyr Ser Gly Phe
            20                  25                  30
Trp Lys Tyr Leu Pro Gly Phe Leu His Asn Leu Lys Asn Gln Gln Pro
        35                  40                  45
Arg Leu Ile Val Gly Thr Ile Ser Asp Cys Leu Ile Arg Ala Leu Ile
    50                  55                  60
Gly Phe Gly Leu Asn Arg Gln Asp Ile Cys Leu Leu Val Ile Tyr Ser
65                  70                  75                  80
Leu Gly Gln Ser Asn Val Arg Glu Ser
                85
```

<210> 25403
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25403

```
Arg Val Leu Ser Arg Ile Ile Ser Ile Leu Thr Pro Leu Thr Gly Gln
1               5                   10                  15
Ser Leu Thr Met Ser Val His Ala Asn Gly Lys Thr Pro Thr His Ala
            20                  25                  30
Phe Ser Arg Ser Pro Phe Arg Thr Arg Ser Asn Phe Gln Asp Ala Cys
        35                  40                  45
Arg Ala Leu Leu Asp Pro Leu Val Pro Arg Phe Thr Pro Gly Cys Ser
```

```
    50                  55                  60
Arg Val Lys Ile Gly Ser Ser Ala Thr Arg Phe Asp Glu Gly Gly Ala
65                  70                  75                  80
Gln Ile Glu Gly Phe Ala Arg Pro Leu Trp Ala Leu Gly Ser Leu Leu
                85                  90                  95
Gly Gly Gly Tyr Asp Tyr Ala Glu Ala Ala Arg Trp Arg Glu Gly Phe
            100                 105                 110
Ile Ser Gly Thr Asp Pro Asp His Pro Glu Tyr Trp Gly Asp Ile Glu
        115                 120                 125
Asp Met Asp Gln Arg Met Val Glu Met Cys Pro Ile Gly Phe Ala
    130                 135                 140

<210> 25404
<211> 119
<212> PRT
<213> A.fumigatus

<400> 25404
Pro Val Gly Asn Arg Phe Trp Glu Ala Leu Ser Gly Ile Cys Ser Arg
1               5                   10                  15
Thr Ile Gln His Pro Asp Ser Gln Val Asn Arg Leu Cys Ile Thr Pro
            20                  25                  30
Asp Lys Arg Tyr Leu Ala Ala Ala Gly His Asn Asn Val Lys Leu Tyr
        35                  40                  45
Asp Ile Lys Ser Thr Asn Pro Asn Pro Val Met Thr Phe Asp Gly His
    50                  55                  60
Thr Asn Asn Ile Thr Gly Val Ala Phe His Cys Glu Gly Lys Trp Met
65                  70                  75                  80
Val Thr Ser Ser Glu Asp Gly Thr Val Lys Val Trp Asp Thr Arg Thr
                85                  90                  95
Gly Ser Leu Gln Arg Asn Tyr Ala His Lys Ser Pro Val Ser Ser Pro
            100                 105                 110
Arg Gly Trp Arg Ala Ser Val
        115

<210> 25405
<211> 244
<212> PRT
<213> A.fumigatus

<400> 25405
Pro Ser Ser Gly Ala Leu Phe Phe Pro Gln Ser Ile His Pro Pro Asn
1               5                   10                  15
Thr Asp Pro Val Gly Asp Ala Asp Ala Phe Gly His Ile Arg Lys Lys
            20                  25                  30
Glu Leu Gln Gln Ser Ala Lys His Leu Gly Leu Arg Ala Asp Ser Asp
        35                  40                  45
Val Phe Ile Val Asp Asp Pro Ala Arg Phe Pro Asp Ser Met Thr Ala
    50                  55                  60
Thr Trp Ser Glu Ser Asp Ile Ser Ser Leu Leu Ala Ser Ala Phe Ala
65                  70                  75                  80
Pro Asp Leu Ala Ser Gln Ser Gln Ser Ser Ala Val Arg His Arg Val
                85                  90                  95
Pro Gly Thr Gly Pro Pro Thr Ala Thr Ile Asp Val Leu Ile Thr Phe
            100                 105                 110
Asp Lys His Gly Ile Ser Asn His Pro Asn His Cys Ser Leu Tyr His
```

```
        115                 120                 125
Gly Ala Val His Phe Leu Arg Ala Leu Met Lys Asp Lys Ala Gly Tyr
    130                 135                 140
Thr Cys Pro Val Thr Leu Tyr Thr Leu Thr Thr Thr Ser Ile Leu Arg
145                 150                 155                 160
Lys Tyr Ile Gly Val Leu Asp Ala Pro Trp Thr Met Ala Ser Gly Ala
                165                 170                 175
Leu Gly Ser Ile Phe Ala Gly Ala Ala Lys Gly Gly Lys Glu Asp Met
            180                 185                 190
Pro Gly Lys Leu Leu Phe Ile Ser Ala Val Asn Glu Tyr Leu Arg Ala
        195                 200                 205
Gln Ala Ala Met Val Lys Ala His Lys Ser Gln Met Leu Trp Phe Arg
    210                 215                 220
Tyr Gly Trp Ile Thr Leu Gly Arg Tyr Met Val Val Asn Asp Leu Arg
225                 230                 235                 240
Arg Val Arg Val
```

<210> 25406
<211> 177
<212> PRT
<213> A.fumigatus

<400> 25406

```
Ala Glu Arg Thr Ser Arg Leu Pro Asp Gly Phe Ser Tyr Ala Glu Gly
1                 5                  10                  15
Ala Leu Leu Glu Pro Leu Ser Val Val Met Arg Gly Ile Gln Val Ala
            20                  25                  30
Arg Leu Asn Leu Gly Arg Gly Val Val Val Cys Gly Ala Gly Pro Ile
        35                  40                  45
Gly Leu Ile Ala Leu Ala Ala Ala Arg Ala Ser Gly Ala His Pro Ile
    50                  55                  60
Val Ile Thr Asp Val Glu Leu Arg Arg Leu Ala Phe Ala Lys Glu Ile
65                  70                  75                  80
Val Pro Ser Cys Ile Thr Tyr Gln Val Asp Leu Ala Lys Asp Ala Gln
                85                  90                  95
Asp Asn Ala Leu Ala Ile Arg Ala Leu Phe Gly Asp Ser Glu Tyr Val
            100                 105                 110
Ala Pro Glu Ala Val Leu Glu Cys Thr Gly Val Glu Ser Ser Val Cys
        115                 120                 125
Thr Ala Ala Tyr Thr Ala Arg Arg Gly Gly Val Val Val Val Ile Gly
    130                 135                 140
Val Gly Lys Ala Thr Met Asn Asn Leu Pro Phe Met His Met Ser Leu
145                 150                 155                 160
Ala Glu Val Arg Phe Thr Leu Asn Leu Gly Arg Ile Arg Ala Asn Asp
                165                 170                 175
Gly
```

<210> 25407
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25407

```
Ile Asp Leu Arg Phe Ile Asn Arg Tyr Arg Asp Thr Trp Pro Ser Ala
```

1 5 10 15
Ile Ala Cys Leu Ser Gly Gly Ile Leu Asp Leu Arg Lys Leu Val Thr
20 25 30
His Val Phe Pro Leu Glu Arg Ala Lys Asp Ala Leu His Leu Cys Ala
35 40 45
Asp Pro Arg Asn Gly Ser Ile Lys Val Met Val Val Asp Glu Val Asp
50 55 60
Ala Ser Val
65

<210> 25408
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25408
Asp Ala Val Lys Ala Ser Pro Asn Ser Ser Gln Val Arg His Ser Ile
1 5 10 15
Ser Thr Tyr Asp Leu His Ser Asp Asn Ser Gln Gly Asp Arg Val Ala
20 25 30
Val Glu Pro Gly Val Pro Cys Glu Gln Cys Phe Leu Cys Asn Asp Gly
35 40 45
Arg Tyr Asn Leu Cys Glu Asp Val Gln Phe Ala Gly Val Tyr Pro Tyr
50 55 60
Ala Gly Thr Leu Gln Arg Tyr Lys Val His Pro Ala Lys Trp Leu His
65 70 75 80
Lys

<210> 25409
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25409
Tyr Phe His Ser Ala Val Leu Cys Val Leu Gly Leu Val Leu His Ala
1 5 10 15
Asn Val Glu Lys Gly Tyr Ser Asn Glu Arg Cys His Leu Leu Ser Ser
20 25 30
Leu Glu Glu Lys Gln Cys Ile Leu Phe Ser His Tyr Arg Ser Tyr Thr
35 40 45
Arg Ile Asp Phe Ile His Asn His Tyr Leu Tyr Thr Pro Ile Ala Trp
50 55 60
Ile Cys Thr Gln Met Gln Ser Ile Leu Cys Pro Leu Gln Gly Lys Asp
65 70 75 80
Met Arg Tyr

<210> 25410
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25410
Pro Met Val Trp Pro Ala Trp Ser Arg Tyr Thr Val Phe Leu Thr Pro
1 5 10 15

```
Val Trp Tyr Tyr Ile Cys Trp Ser Gly Phe Arg Ser Ile Ser Ser Asn
            20                  25                  30
Met Trp Val Val Ser Leu Thr Gly Tyr Gln Leu Leu Leu Lys Arg Thr
        35                  40                  45
Leu Asp Glu Pro Leu Ser Phe Thr Asp Asn Gln Ala
    50                  55                  60
```

<210> 25411
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25411

```
Glu Asp Glu Ala Lys Val Ser Gln Ile Glu Trp Arg His Gln Leu Ala
1               5                   10                  15
Thr Met Asp Ile Glu Ala Ile Thr Gln Arg Met Thr Ser Gln Pro Thr
            20                  25                  30
Met Trp Phe Gln Gly Val Gln Asp Pro Ala Met Arg Ala Ile Gln Gln
        35                  40                  45
Gly Glu Ser Pro Val Ile Ala Val Met Pro Thr Gly Gly Asp Lys Ser
    50                  55                  60
Met Cys Leu
65
```

<210> 25412
<211> 241
<212> PRT
<213> A.fumigatus

<400> 25412

```
Asp Trp Leu Asp Pro Thr Ala Pro Pro Asn Ala Pro Trp Lys Gly Thr
1               5                   10                  15
Thr Asp Ala Lys Leu Val Ala Asn Ala Phe Leu Ile Arg Ser Leu Asp
            20                  25                  30
Leu Met Cys Lys Ile Ser Arg Ile Leu Gly Gln Asp Thr Asp Thr Ser
        35                  40                  45
Arg Phe Val Arg Trp Ser Glu Ser Ser Arg Lys Glu Phe Gln Asp Glu
    50                  55                  60
Tyr Val Thr Ala Asn Gly Arg Ile Val Phe Asp Ser Gln Thr Ala Tyr
65                  70                  75                  80
Ala Leu Ala Ile Cys Phe Asp Leu Leu Lys Pro Ser Gln Lys Asn His
                85                  90                  95
Ala Gly Gly Arg Leu Ala Tyr Leu Val Arg Lys Lys Glu Phe Lys Ile
            100                 105                 110
Gly Thr Gly Phe Ala Gly Thr Pro Tyr Val Cys Glu Ala Leu Ala Leu
        115                 120                 125
Thr Gly Asn Ile Gln Leu Ala Tyr Ala Met Leu Leu Glu Glu Arg Cys
    130                 135                 140
Pro Ser Trp Leu Tyr Pro Val Thr Met Gly Ala Thr Thr Val Trp Glu
145                 150                 155                 160
Arg Trp Asp Ser Met Leu Ala Asp Gly Ser Val Asn Pro Gly Glu Met
                165                 170                 175
Thr Ser Phe Asn His Tyr Ala Phe Gly Ala Ile Ala Lys Phe Leu Tyr
            180                 185                 190
Glu Arg Val Ala Gly Leu Gln Arg Val Glu Pro Gly Trp Lys Arg Ser
        195                 200                 205
```

```
Cys Val Ala Pro Gly Ile Gly Ala Glu Leu Ser Ser Ala Ala Ala Glu
    210                 215                 220
His Leu Thr Pro Phe Gly Leu Leu Ser Cys Ser Trp Arg Thr Gly Lys
225                 230                 235                 240
Asn
```

<210> 25413
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25413

```
Gln Arg Ser Gln Met Val Asp Ala Ile Ser Ile Ser Ile Gly Ser Leu
1               5                   10                  15
Phe Gly Ser Pro Pro Val Thr Ala Phe Val Glu Ser Gly Ala Gly Ile
            20                  25                  30
Ser Glu Gly Gly Lys Thr Gly Leu Thr Ser Cys Val Thr Gly Ile Cys
        35                  40                  45
Phe Phe Ile Ala Val Phe Phe Ala Pro Ile Phe Ala Ser Asn Pro Ser
    50                  55                  60
Leu Gly Leu Leu Ala Ala Arg Trp
65                  70
```

<210> 25414
<211> 150
<212> PRT
<213> A.fumigatus

<400> 25414

```
Ser Leu Leu Gly Ala Thr Gly Cys Thr Leu Val Ile Val Gly Ala Leu
1               5                   10                  15
Met Cys Lys Ala Ala Ala Glu Ile Asn Trp Arg Tyr Tyr Gly Asp Ala
            20                  25                  30
Ile Pro Ala Phe Leu Thr Ile Ala Ile Met Pro Phe Thr Tyr Ser Ile
        35                  40                  45
Ala Tyr Gly Leu Ile Ala Gly Ile Leu Ser Tyr Val Leu Ile Asn Thr
    50                  55                  60
Thr Ala Trp Leu Ile Glu Lys Gly Ser Val Gly Arg Val Val Pro Pro
65                  70                  75                  80
Asn Lys Asp Glu Ser Asp Pro Trp Ser Tyr Lys Val Pro Gly Gly Phe
                85                  90                  95
Leu Pro Pro Trp Leu Arg Arg Ala Ala Arg Gly Lys Lys Asp Phe Trp
            100                 105                 110
Arg Glu Asp Glu Glu Glu Ser Val Asp Met Gly Val Val Pro Gly Gly
        115                 120                 125
Ser Val Ser Ser His Asp Arg Pro Glu Gly Glu Lys Ser Gln Val Gly
    130                 135                 140
Val Gly Asn Lys Ser Leu
145                 150
```

<210> 25415
<211> 107
<212> PRT
<213> A.fumigatus

<400> 25415
Ala Leu Pro Glu Leu Pro Gln Ser Met Arg Arg Phe Phe Ala Cys Tyr
1 5 10 15
Thr His Tyr Gln Pro Gly Val Pro Asn Ser Ile Ala Thr Ser Cys Ser
20 25 30
Gly Asn Leu Leu Asp Ile Pro Asp Trp Cys Thr Tyr Ser Ile Tyr Cys
35 40 45
Ser Ile Tyr Leu Phe His Asp Gly Asn Ser Pro Ala Pro Glu Trp Ala
50 55 60
Ala Asn Arg Gln Val Pro Asp Arg Tyr Ser Ala Asn Lys Gly Ser Gly
65 70 75 80
Gln Arg Arg Asn Arg Ala Val Val Phe Tyr Gln Arg Asn Ser His Arg
85 90 95
Val Phe Ser Ile Gln Pro Gly Lys Asn Pro Cys
100 105

<210> 25416
<211> 140
<212> PRT
<213> A.fumigatus

<400> 25416
Ile Glu Ser Gly Leu Val Arg Asp Arg Met Asp Glu Phe Lys Ala Val
1 5 10 15
Arg Lys Gln Thr Val Asp Lys Ala Thr Leu Glu Ile Ser Arg Leu Glu
20 25 30
Lys Arg Leu Thr Arg Leu Thr Gln Leu Leu Ala Ser Leu Pro Pro Asp
35 40 45
Gln Ile Gln Gly Gly Lys Arg Trp Pro Ile Ser Trp Gln Asn Asp Gln
50 55 60
Arg Lys Ala Leu Glu Gln Thr Ile Val Ser Trp Gln Asp Asp Ala Gly
65 70 75 80
Val Pro Arg Cys Pro Phe Cys Gln Gln Glu Phe Thr Ser Tyr Thr Phe
85 90 95
Arg Arg His His Cys Arg Thr Cys Gly Arg Val Val Cys Gly Asp Pro
100 105 110
Ala Thr Gly Cys Ser Asn Glu Val Pro Leu Ser Ile Thr Pro Cys Met
115 120 125
Leu Asn Pro Leu Ala Phe Cys Val Val Ile Leu Arg
130 135 140

<210> 25417
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25417
Ile Ser Glu Ala Ala Arg Asn Val Ala Val Cys Tyr Lys Ser Arg Ser
1 5 10 15
Leu Leu Leu Tyr Leu Thr Ser Phe Phe Leu Ala Arg Asp Pro Arg Arg
20 25 30
Pro Pro Ser Ala Ala Gln Ile Ala Glu Ala Ser Lys Val Arg Lys Arg
35 40 45
Leu Thr Asp Ser Phe Ala Gln Tyr Asp Val Ala Ala Arg Arg Ile Arg
50 55 60
Asp Met Pro Thr Asp Ser Pro Thr Gln Gln Arg Leu Gln Lys Ala Ile

```
65                  70                  75                  80
Tyr Gln Gln Ala Thr Asn Phe Leu His Leu His Met Leu Pro Leu Lys
                85                  90                  95
Ala Leu Pro Lys Ile Leu Lys His Ala Thr Pro Asn Gly Arg Pro Ala
            100                 105                 110
Ser Ala Ala Ser Ser Ile Ala Thr Pro Thr Asn Ser Ala Val Gly Asp
        115                 120                 125
His Arg Pro Arg Glu Ser Ala Leu Ala Ser Ile Lys Tyr Asn Gly Ile
    130                 135                 140
Ala Ala Ser Gly Ser Asn Thr Ser Leu Thr Ser Asp Thr Ser Ser Ala
145                 150                 155                 160
Val Ser Ala Ser Glu Ala Gly Leu His His Thr Gly Arg Arg Ser Asp
                165                 170                 175
Ala Lys Arg Leu
            180
```

<210> 25418
<211> 138
<212> PRT
<213> A.fumigatus

```
<400> 25418
Trp Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Lys Gly Thr Glu Leu
1               5                   10                  15
Tyr Ser Pro Thr Asp Pro Gly Ile Leu Val Asn Ile Tyr Asn Ala Leu
            20                  25                  30
Ser Thr Tyr Ile Val Pro Gly Pro Thr Leu Ile Pro Gly Ala Val Ser
        35                  40                  45
Val Val Gln Ser Ser Ser Thr Ile Thr Ala Ser Gly Thr Pro Val Thr
    50                  55                  60
Gly Ser Gly Ser Ala Pro Thr Thr Ser Ala Thr Thr Thr Leu Ser Thr
65                  70                  75                  80
Thr Thr Arg Ala Thr Thr Thr Thr Thr Thr Thr Thr Ala Gly Ser Ser
                85                  90                  95
Thr Ser Val Gln Ser Val Tyr Gly Gln Cys Gly Gly Ser Gly Trp Ser
            100                 105                 110
Gly Pro Thr Ala Cys Val Thr Gly Ala Thr Cys Thr Ser Tyr Asn Ser
        115                 120                 125
Tyr Tyr Ser Gln Cys Ile Pro Thr Ala Ser
    130                 135
```

<210> 25419
<211> 186
<212> PRT
<213> A.fumigatus

```
<400> 25419
Val Asp Gln Leu Ala Pro Pro Asp Cys Ile Leu Ala Thr Asn Ser Ser
1               5                   10                  15
Ser Tyr Lys Ser Ser Glu Met Ile Gln Gln Val Thr Arg Arg Tyr Arg
            20                  25                  30
Val Cys Asn Gly His Tyr Tyr Met Pro Pro Asp Gln Asn His Leu Glu
        35                  40                  45
Ile Met Thr Cys Gly Tyr Thr Asp Pro Ser Ile Ile Ala Phe Leu Met
    50                  55                  60
Glu Gln Ser Ala Ala Ala Gly Phe Val Pro Ile His Ala Lys Val Glu
```

65 70 75 80
Ser Thr Gly Leu Ile Phe Asn Arg Ile Trp Ala Ala Ile Lys Arg Glu
85 90 95
Ser Leu Leu Val Met Ala Glu Gly Val Gly Thr Ala Gly Asp Ile Asp
100 105 110
Gln Leu Phe Lys Gly Trp Phe His Gly Glu Val Gly Pro Cys Glu Met
115 120 125
Met Asp Arg Val Gly Leu Asp Thr Val Tyr Asn Ile Glu Lys His Tyr
130 135 140
Val Glu Glu Arg Gly Leu Asp Ala Lys Pro Ile Glu Trp Leu Lys Glu
145 150 155 160
Asn Tyr Val Asp Arg Gly Leu Leu Gly Arg Lys Ser Gly Lys Gly Leu
165 170 175
Leu Ser Glu Glu Ser Asn Gly His Ala Gln
180 185

<210> 25420
<211> 336
<212> PRT
<213> A.fumigatus

<400> 25420
Glu Cys Val Ser Tyr Gly Ser Arg Arg Ser Phe Asp Ile Leu Thr Ser
1 5 10 15
Thr Met Asp Pro Ser Arg Ser Pro Ser Pro Ser Phe Ser Ser Pro Pro
20 25 30
Ser Glu Ile Arg Ile Leu Thr Leu Asn Cys Trp Gly Leu Lys Tyr Leu
35 40 45
Ala Lys Tyr Arg His Glu Arg Leu Ser Glu Ile Gly Arg Gln Leu Ala
50 55 60
Leu Ala Asp Pro Pro Pro Gln Ile Val Gly Leu Gln Glu Cys Trp Thr
65 70 75 80
Gln Gln Asp Tyr Glu Ser Ile Arg Gln Gln Thr Asn His Ile Leu Pro
85 90 95
Tyr Gly Lys Phe Tyr Phe Gly Gly Ile Phe Gly Ala Gly Leu Ala Ile
100 105 110
Leu Ser Lys Trp Pro Ile Glu Glu Ser Thr Met Tyr Ala Tyr Pro Leu
115 120 125
Asn Gly Arg Pro Thr Ala Phe Phe Arg Gly Asp Trp Phe Val Gly Lys
130 135 140
Gly Val Ala Cys Ala Arg Ile Arg Phe Gly Pro Glu Val Gly Asp Val
145 150 155 160
Ala Glu Val Phe Cys Thr His Leu His Ala Pro Tyr Glu Arg Glu Pro
165 170 175
Asn Asp Ser Tyr Ile Cys His Arg Thr Ala Gln Ala Trp Glu Ile Ala
180 185 190
Lys Leu Met Arg Gly Ala Ala Glu Arg Gly His Leu Val Ile Gly Leu
195 200 205
Gly Asp Phe Asn Met Ile Pro Ser Ser Phe Ala His Gln Leu Ile His
210 215 220
Ala His Ala Pro Val Arg Asp Val Trp Gln Val Leu His Pro Asp Ser
225 230 235 240
Ser Val Gly Ala Thr Ile Asp Leu Pro Glu Gln Lys Arg Asn Arg Pro
245 250 255
Val Pro Thr Ala Glu Phe Asn Leu Leu Glu Asn Gly Ala Thr Cys Asp
260 265 270

```
Gly Arg Phe Asn Thr Trp Arg Trp Ser Lys Glu Asp Arg Lys Arg Leu
        275                 280                 285
Glu Lys Arg Glu Asp Val Val Val Asp Arg Thr Arg Pro Ala Pro Arg
    290                 295                 300
Gly Lys Glu Asn Gly Leu His Leu Trp Arg Gly Thr Ala Gly Tyr Pro
305                 310                 315                 320
Ser Ala Tyr Pro Gly Pro Gly Gly Ser Val Gln Ser Gly Gly Leu Ala
                325                 330                 335
```

<210> 25421
<211> 220
<212> PRT
<213> A.fumigatus

<400> 25421

```
Ala Leu Pro Pro Ser Arg Arg His Pro His Gly Thr Pro Gln Pro Pro
1               5                   10                  15
Arg Arg Ile Ser Ala Thr Lys Leu Pro Glu Glu Cys Leu Leu Arg Arg
            20                  25                  30
Arg Arg Pro Arg Arg Ala Pro Arg Cys Leu Pro Ala Arg His Pro Pro
        35                  40                  45
Leu Ala Pro Ala His Pro Arg Arg Ser Gly Ser Gly His Arg Thr Gly
    50                  55                  60
Arg Pro Asp Arg Arg Ala Asp Leu Arg Arg Arg Ser His Arg Pro Pro
65                  70                  75                  80
Pro Arg Arg Cys Thr Ser His Leu Pro Ala Leu His Leu His Arg His
                85                  90                  95
Arg Gly His Arg Pro Arg Pro Ser Arg Asp Arg Lys Ile Pro Gln Pro
            100                 105                 110
Arg Pro Glu Asp Pro Ser Pro Pro Gln Arg Arg Gln Cys Arg Gln Pro
        115                 120                 125
Thr Pro Cys Ala Gly Arg Leu Cys Arg Arg Ala Cys Arg Val Arg His
    130                 135                 140
Ala Glu Cys Ala Ala Asp Arg Ser Gly Ala Glu Arg Gly Glu Trp Gly
145                 150                 155                 160
Cys Val Arg Val Cys Ala Arg Val Arg Val Tyr Arg Arg Ala Gly Val
                165                 170                 175
Arg Ala Ser Gly Asp Leu Arg Cys Gln Pro Trp Arg Arg Ala Arg Ala
            180                 185                 190
Asp Arg Asp Gly Glu Ser Asp Ser Asp Ala Ser Gly Glu Cys Gly Gly
        195                 200                 205
Ala Pro Gly Gly Gly Tyr His Arg His Val Pro Val
    210                 215                 220
```

<210> 25422
<211> 425
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (350),(364),(372)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25422

```
Gln His Gln Glu Ser Arg Pro Ile Ser Pro Pro Thr Gly Ser Glu Val
```

```
1               5                   10                  15
Gln Val Ala Ile Arg Ala Thr Gly Leu Cys Gly Ser Asp Leu His Tyr
            20                  25                  30
Tyr Asn His Gly Arg Asn Gly Asp Phe Val Val Arg Glu Pro Met Cys
        35                  40                  45
Leu Gly His Glu Ser Ser Gly Thr Val Thr Ala Val Gly Pro Asp Val
    50                  55                  60
Thr Thr Leu Gln Val Gly Asp Arg Val Ala Leu Asp Val Gly Leu Pro
65                  70                  75                  80
Cys Arg Thr Cys Thr Leu Cys Arg Thr Gly Arg Tyr Asn Ile Cys Pro
                85                  90                  95
Asp Met Lys Phe Arg Asn Ser Ala Lys Leu Phe Pro His Leu Asp Gly
            100                 105                 110
Thr Leu Met Glu Leu Pro Asn His Pro Ala Gly Ser Leu Pro Gln Ser
        115                 120                 125
Ser Leu Lys Ser Val Ser Tyr Ala Gly Gly Ala Leu Val Glu Pro Leu
    130                 135                 140
Ala Val Cys Leu His Ala Ile Arg Arg Ser His Pro Pro Thr Pro Ala
145                 150                 155                 160
Glu Val Asp Leu Ala Thr Glu Gln Gly Asp Gln Thr Ala Ala Leu Ile
                165                 170                 175
Phe Gly Ala Gly Ala Ile Gly Leu Leu Leu Ala Ala Ala Leu Ala Thr
            180                 185                 190
Ser Gln Pro Phe Thr Ser Ile Val Ile Ala Asp Ile Asp Pro Ala Arg
        195                 200                 205
Leu Glu Ile Ala Lys Ser Leu Asn Leu Gly Leu Lys Thr His Leu Leu
    210                 215                 220
Pro Lys Gly Gly Asn Ala Ala Asn Pro Pro Pro Ala Pro Asp Ala Ser
225                 230                 235                 240
Ala Ala Glu His Ala Ala Tyr Ala Met Gln Asn Ala Gln Arg Thr Ala
                245                 250                 255
Ala Ala Leu Lys Glu Ala Asn Gly Val Ala Ser Gly Phe Val Arg Val
            260                 265                 270
Tyr Glu Cys Thr Gly Val Pro Ala Cys Val Gln Ala Gly Ile Tyr Ala
        275                 280                 285
Ala Ser Pro Gly Ala Val Leu Val Gln Ile Gly Met Gly Asn Pro Ile
    290                 295                 300
Gln Thr Leu Pro Val Ser Ala Ala Ala Leu Arg Glu Val Asp Ile Ile
305                 310                 315                 320
Gly Thr Phe Arg Tyr Asp Gly His Ala Tyr Pro Ala Ala Ile Glu Leu
                325                 330                 335
Met Ala Ser Gly Lys Leu Asp His Val Gln Lys Gln Val Xaa Thr His
            340                 345                 350
Arg Val Arg Leu Glu Asp Gly Asn Ser Ala Phe Xaa Leu Ala Gly Lys
        355                 360                 365
Gly Leu Asp Xaa Thr Gly Gln Pro Val Val Lys Val Ser Ile Glu Ser
    370                 375                 380
Lys Ile Trp Ile Gly Cys Val Arg Pro Pro Cys Leu Tyr Pro Val Gly
385                 390                 395                 400
Leu Leu Arg Gly Pro Ser Cys Trp Thr Gly Asp Leu Arg Ser Pro Thr
                405                 410                 415
Arg Tyr Leu Phe Cys Ser Lys Phe Leu
            420                 425
```

<210> 25423
<211> 135

<212> PRT
<213> A.fumigatus

<400> 25423
Tyr Leu Leu Ser Phe Phe Ser Ser His His Leu Asn Cys Phe Val Ser
1 5 10 15
Pro Tyr Ala Leu Phe Leu Asn Ile Gly Phe Phe Leu His Arg Asp Lys
20 25 30
Ser Ser His Pro Ala Leu Gln Leu Arg His His Ala Phe Gly Ser Thr
35 40 45
His Trp Cys His His Pro Arg Ala Gln Gly Val Glu Arg Ser Leu Val
50 55 60
His Ser Asp Ser Lys Gly Glu Leu Ala Ile Val Val Trp Trp Ser Val
65 70 75 80
Asp Ser Asn Val Val Leu Lys Glu Phe Pro Glu Gly Thr Arg Asp Glu
85 90 95
Phe Ile Arg Asn Cys Lys Asp Gly Gln Tyr Asp Asp Val Val Val Ile
100 105 110
Tyr Arg Ser Asn Ala Ser Thr Lys Val Ser Val Ala Val Glu Arg Gly
115 120 125
Asp Lys Cys Leu Val Thr Asp
130 135

<210> 25424
<211> 74
<212> PRT
<213> A.fumigatus

<400> 25424
Val Gln Phe Thr Gly Pro Phe Asp Ala Glu Leu Leu Ser Val Leu Pro
1 5 10 15
Lys Ser Leu Lys Tyr Ile Cys His Asn Gly Ala Gly Tyr Asp Asn Ile
20 25 30
Asp Ile Pro Ala Cys Ser Glu Lys Gly Ala Ile Ile Tyr Val Leu Leu
35 40 45
Ile Gln Lys Pro Glu Lys Leu Ile Lys His Arg Asn Cys Arg Leu Gln
50 55 60
Tyr Pro Ser Arg Arg Glu Pro Arg Asn Cys
65 70

<210> 25425
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25425
Thr Ser Asp Ser Ser Tyr Thr Ala Ile Arg Ala Leu Thr Pro Leu Ser
1 5 10 15
Asn Ser Asp Ile Met Pro Ser Ala Leu Leu Ile Gly Ala Ile Thr His
20 25 30
Ala Arg Lys Glu Trp Lys Asp Leu Ser Ser Ile Leu Thr Leu Lys Val
35 40 45
Ser Ser Arg Leu Trp Ser Gly Gly Val Ser Thr Leu Met
50 55 60

<210> 25426

<211> 107
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (80)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25426
Arg Arg Trp Pro Thr Leu Gly Ser Leu Ile Arg Leu Gly Val Pro Pro
1 5 10 15
Asn Trp His Ser Trp Ser Arg Pro Asn Ser Phe Ser Asn Arg Trp Ile
20 25 30
Lys Met Pro Pro Phe Cys Phe Pro His Pro Trp Lys Glu Arg Thr Ile
35 40 45
Pro Tyr Leu Ser Leu Leu Asn Thr Leu Arg Thr Gly Glu Ile Thr Pro
50 55 60
Tyr Pro Pro Leu Val Gly Pro Pro Trp Gly Phe Asn Phe Leu Pro Xaa
65 70 75 80
Pro Lys Leu Asn His Ser Arg Ala Thr Phe Pro Pro Lys Cys Pro Pro
85 90 95
His Phe Thr Val Ser Ile Ser Gly Tyr Val Ser
100 105

<210> 25427
<211> 206
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25427
Arg Tyr Asn Ser Phe Ala Trp Lys Gly Glu Thr Glu Xaa Glu Tyr Gln
1 5 10 15
Trp Cys Leu Glu Gln Gln Leu Asn Ala Phe Lys Asp Gly Gln Lys Leu
20 25 30
Asn Leu Ile Leu Asp Asp Gly Gly Asp Leu Thr Ala Leu Val His Ser
35 40 45
Lys Tyr Pro Glu Met Leu Lys Gly Cys Tyr Gly Val Ser Glu Glu Thr
50 55 60
Thr Thr Gly Val His His Leu Tyr Arg Met Leu Lys Glu Gly Lys Leu
65 70 75 80
Leu Val Pro Ala Ile Asn Val Asn Asp Ser Val Thr Lys Ser Lys Phe
85 90 95
Asp Asn Leu Tyr Gly Cys Arg Glu Ser Leu Ile Asp Gly Ile Lys Arg
100 105 110
Ala Thr Asp Val Met Ile Ala Gly Lys Val Ala Val Val Ala Gly Tyr
115 120 125
Gly Asp Val Gly Lys Gly Cys Ala Asp Ala Leu Arg Ser Met Gly Ala
130 135 140
Arg Val Leu Val Thr Glu Ile Asp Pro Ile Asn Ala Leu Gln Ala Ala
145 150 155 160

```
Val Gln Gly Tyr Gln Val Val Thr Met Glu Glu Ala Ala Pro Gln Gly
                165                 170                 175
Gln Ile Phe Val Thr Thr Thr Gly Cys Arg Asp Ile Leu Val Gly Lys
            180                 185                 190
His Phe Glu Val Met Arg Asn Asp Ala Ile Val Cys Ser Lys
        195                 200                 205
```

<210> 25428
<211> 160
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25428

```
Leu Val Ser Ala Ser Phe Gly Gly Phe Ile Leu Ile Asn Thr Asp Ile
1               5                   10                  15
Gly His Phe Asp Ile Glu Ile Asp Val Xaa Trp Leu Lys Ala Asn Ala
            20                  25                  30
Lys Ser Val Gln Asn Ile Lys Pro Gln Val Asp Arg Tyr Leu Met Pro
        35                  40                  45
Asn Gly Arg His Ile Ile Leu Leu Ala Glu Gly Arg Leu Val Asn Leu
    50                  55                  60
Gly Cys Ala Thr Gly His Ser Ser Phe Val Met Ser Cys Ser Phe Ser
65                  70                  75                  80
Asn Gln Val Leu Ala Gln Ile Ala Leu Phe Lys Ala Glu Asp Glu Ala
                85                  90                  95
Phe Gly Lys Lys Tyr Val Glu Phe Gly Thr Thr Gly Lys Lys Pro Val
            100                 105                 110
Gly Val Tyr Val Leu Pro Lys Ile Leu Asp Glu Gln Val Ala Leu Leu
        115                 120                 125
His Leu Glu His Val Asn Ala Lys Leu Ser Lys Leu Thr Pro Val Gln
    130                 135                 140
Ala Glu Tyr Leu Gly Leu Asp Ile Ala Gly Pro Phe Lys Ser Asp Met
145                 150                 155                 160
```

<210> 25429
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25429

```
Thr Pro Thr Gly Phe Leu Pro Val Val Pro Asn Ser Thr Tyr Phe Leu
1               5                   10                  15
Pro Lys Ala Ser Ser Ser Ala Leu Asn Arg Ala Ile Trp Ala Arg Thr
            20                  25                  30
Trp Leu Glu Lys Glu Gln Asp Met Thr Lys Glu Glu Trp Pro Val Ala
        35                  40                  45
Gln Pro Arg Leu Thr Arg Arg Pro Ser Ala Arg Arg Met Met Trp Arg
    50                  55                  60
Pro Leu Gly Ile Arg
65
```

<210> 25430
<211> 389
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (147),(367)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25430
Leu Gly Ser Gly Thr Glu Lys Asp Lys Ala His Leu His Ile Ala Leu
1 5 10 15
Glu Arg Thr Gly Asn Ile Gln Thr Lys Val Leu Gly Leu Asn Gly Ser
20 25 30
Glu Leu Gly Gln Leu Gly Ile Asp Val Leu Gln Val Glu Gln Ser Asn
35 40 45
Leu Leu Val Gln Asp Leu Gly Lys Asn Val Asp Ala Asn Gly Leu Leu
50 55 60
Ala Gly Gly Ala Glu Leu Asp Val Leu Leu Ala Lys Gly Leu Val Leu
65 70 75 80
Gly Leu Glu Gln Ser Asn Leu Gly Lys Asn Leu Val Gly Glu Gly Ala
85 90 95
Gly His Asp Glu Gly Arg Val Ala Gly Gly Thr Ala Lys Val Asp Gln
100 105 110
Thr Thr Leu Gly Lys Glu Asp Asp Val Ala Ala Val Gly His Gln Val
115 120 125
Ala Val Asn Leu Gly Leu Asn Val Leu Asp Gly Leu Gly Val Gly Leu
130 135 140
Glu Pro Xaa Asn Val Asn Leu Asn Val Glu Val Thr Asn Val Cys Val
145 150 155 160
Asp Gln Tyr Lys Ala Thr Glu Thr Arg Gly Asn Gln Ser Leu Thr Ala
165 170 175
Asn Asn Gly Val Val Thr His Asn Leu Lys Val Leu Ala Asn Lys Asn
180 185 190
Val Thr Ala Thr Gly Gly Gly Asp Glu Asp Leu Thr Leu Gly Ser Ser
195 200 205
Leu Leu His Gly Asp Asp Leu Val Ser Leu Asn Ser Gly Leu Lys Gly
210 215 220
Val Asp Gly Val Asn Leu Gly Asp Glu Asp Thr Gly Thr His Ala Ala
225 230 235 240
Glu Ser Ile Gly Thr Ala Leu Ala Asp Ile Thr Val Thr Ser Asn Asn
245 250 255
Gly Asp Leu Ala Gly Asn His Asp Val Gly Gly Thr Leu Asp Thr Ile
260 265 270
Asp Glu Arg Leu Thr Ala Thr Val Gln Val Val Glu Leu Gly Leu Gly
275 280 285
Asp Gly Val Val Asp Val Asp Arg Gly Asn Lys Glu Leu Ala Leu Leu
290 295 300
Glu His Ser Val Glu Val Val Asn Thr Ser Gly Gly Leu Leu Gly Asp
305 310 315 320
Thr Val Ala Ala Leu Glu His Leu Arg Val Leu Ala Val Asp Glu Gly
325 330 335
Gly Gln Ile Thr Thr Ile Val Glu Asp Glu Val Glu Leu Leu Ala Ile
340 345 350
Leu Glu Ser Val Glu Leu Leu Leu Gln Ala Pro Leu Val Leu Xaa Leu

```
        355                 360                 365
Gly Leu Thr Leu Pro Gly Lys Ala Ile Val Thr Leu Glu Leu Ala Ser
    370                 375                 380
Phe Gln Asn Ser Lys
385
```

<210> 25431
<211> 504
<212> PRT
<213> A.fumigatus

<400> 25431

```
Ile Gly Ala Ala Leu Pro Pro Arg Val Lys Thr Glu Gln Arg Thr Val
1               5                  10                  15
Glu Thr Glu Tyr Tyr Asp Phe Leu Val Val Ala Ser Gly Tyr Phe Ser
            20                  25                  30
Arg Pro Tyr Thr Pro Asp Ile Pro Gly Leu Ala Ala Leu Ala Glu Arg
        35                  40                  45
Thr Ile His Ser Ser Ala Leu Arg Ser Leu Glu Asp Leu Asp Ala Ile
    50                  55                  60
Val Glu Lys Gly Ser Asp Gly Gly Arg Leu Ile Val Ile Gly Gly Ser
65                  70                  75                  80
Met Ser Gly Val Glu Ala Ala Ser Ser Leu Ala Leu His Val Ser Ser
                85                  90                  95
Leu Arg Tyr Ala Pro Gly Ser Ser Val Gln Thr Asp Ser Phe Pro Glu
            100                 105                 110
Val Tyr His Ile Ser Ser Arg Pro Phe Trp Thr Val Pro Thr Tyr Ile
        115                 120                 125
Pro His Ala Gln Lys Asp Asn Gly Thr Gly Thr Glu Thr Val Ser Leu
    130                 135                 140
Leu Pro Leu Asp Leu Pro Met Tyr Asp Leu Ala Arg Arg Pro Pro Gly
145                 150                 155                 160
Pro Val Glu Tyr Ala Phe Gly Pro Ala Ser Ala Ala Gln Val Ala Lys
                165                 170                 175
Val Asn Asp Tyr Phe Gln Ser Ile Leu Gly Glu Asp Tyr Thr Asn Ile
            180                 185                 190
Gly Pro Gly Asp Ile Gly Phe Lys Gly Gly Glu Glu Glu Thr Leu Gln
        195                 200                 205
Pro Arg Trp Val Ala Ile Gly Asn Asp Tyr Ala Glu Phe Val Arg Ser
    210                 215                 220
Lys Ala Ile Lys Thr Val Ile Gly Arg Val Ser Ala Val His Ala Ser
225                 230                 235                 240
Ser Pro Gly Pro Ala Lys Val Asp Ile Glu Leu Pro Gly Lys Glu Ser
                245                 250                 255
Met Ser Leu Asp Asn Val Ala Gly Ile Val Leu Ala Thr Gly Phe Arg
            260                 265                 270
Pro Phe Pro Ser Leu Ala Phe Leu Pro Glu Asp Val Leu Ser Ala Leu
        275                 280                 285
Glu Tyr Ser Pro Asp Asp Ser Phe Phe Pro Leu Ile Leu Asp Pro Lys
    290                 295                 300
Gly Ala Ser Asn Ala Asn Ile Pro Asp Leu Gly Phe Val Gly Phe Tyr
305                 310                 315                 320
Arg Gly Pro Tyr Trp Gly Val Met Glu Met Gln Ala Arg Ser Leu Ala
                325                 330                 335
Gln Thr Trp Ala Gly Asp Asp Thr Glu His Gly Ile Gln Phe Ser Ala
            340                 345                 350
```

```
Thr Glu Leu Glu Ser Lys Ala Gln Glu Arg Gln Lys Val Arg Glu Tyr
        355                 360                 365
Arg Ser Ala Asp Pro Asn Leu His Arg Gly Gln Phe Pro Met Gly Asp
    370                 375                 380
Tyr Thr Gly Leu Met Glu Ser Phe Ala Arg Asp Leu Gly Ile Cys Arg
385                 390                 395                 400
Ala Pro Leu Thr Glu Leu Asp Glu Arg Pro Gly Pro Val Val Pro Ala
                405                 410                 415
Arg Tyr Val Met Ser Gly Pro Gly Thr Ala Asp Ile Arg Thr Ser Leu
            420                 425                 430
Gln Ala Leu Gln Glu Thr Leu Gln Pro Arg Arg Glu Ser Ala Ser Pro
        435                 440                 445
Ala Val Ala Met Ala Val Phe Arg Ala Leu His Gly Ser Trp Asp Phe
    450                 455                 460
Thr Arg Ser Gly Gln Asp Gly Ile Ser Ser Gly Ile Ser Thr Phe Phe
465                 470                 475                 480
Pro Arg Tyr Pro Ser Ser Pro Ala Tyr Glu Lys Ser Ser Pro Arg Gly
                485                 490                 495
Trp Lys Val Asp Thr Cys Leu Trp
            500
```

<210> 25432
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25432

```
Ser Asp Leu Gly Ile Ile Phe Ser Trp Phe Lys Glu Leu Glu Val Asn
1               5                  10                  15
Tyr Gly Arg Lys Arg Tyr Ala Asn Pro Lys Arg Ile Asp His Ile Ser
            20                  25                  30
Ala Leu Ile Ile Thr Lys Cys Gly Trp Phe Pro Gly Ser Pro Thr Gln
        35                  40                  45
Leu Ser Asp Glu Asn Val Gly Lys Trp Ser His Phe Thr Gly
    50                  55                  60
```

<210> 25433
<211> 335
<212> PRT
<213> A.fumigatus

<400> 25433

```
Gly Tyr Ser Ala His Asn Trp Pro Lys Gly Gly Arg Asp Ser Leu Thr
1               5                  10                  15
Arg Thr Ser Gly Gln Glu Glu Gln Pro Arg Ala Gly Arg Met Ile Gln
            20                  25                  30
Asp Lys Thr Pro Ser Ile Leu Glu Val Glu Leu Val Glu Asn Ile Pro
        35                  40                  45
Ile Asp Val Ser Thr Glu Pro Gly Ala Gly Asp Gly Glu Asn Ser Thr
    50                  55                  60
Val Phe Asn Val Trp Val Asp Met Asp Ile Pro Pro Asp Glu Trp Gly
65                  70                  75                  80
Thr Ser Pro Tyr Lys Asn Gly Pro Pro Lys Lys Ser Val Gly Lys Asn
                85                  90                  95
Glu Asp Asp Leu Pro Leu Lys Gly Thr Met Asp Tyr Ile Glu His Glu
            100                 105                 110
```

```
Ile Lys Asp Gly Tyr Leu Glu Pro Ile Ile Lys Asp Val Ile Arg Ser
        115                 120                 125
Arg Cys Leu Glu Thr Lys Gly Ser Gln Gly Pro Ala Val Asp Arg Asp
    130                 135                 140
Ser Arg Pro Glu Gly Lys Ala Glu Asp Pro Asn Val Met Val Ile Ser
145                 150                 155                 160
Leu His Ser Cys Gly Asn Leu Leu His His Gly Val Arg Ser Leu Val
                165                 170                 175
Leu Asn Pro Ser Val Lys Ala Ile Ala Met Ile Gly Cys Cys Tyr Asn
            180                 185                 190
Leu Val Thr Glu Arg Leu Gly Pro Ala Thr Tyr Lys Val Pro Ile Leu
        195                 200                 205
Arg Thr Gln His Pro Arg Leu Thr Gln Asp Ala Cys Ala Tyr Asp Pro
    210                 215                 220
His Gly Phe Pro Met Ser Lys Arg Leu Glu Ser Tyr Glu His Ile Ser
225                 230                 235                 240
Gly Thr Gly Val Lys Leu Asn Ile Thr Ala Arg Ser Met Ser Leu Gln
                245                 250                 255
Ala Pro Tyr Asn Trp Gly Arg Glu Asp Ser Glu Ala Phe Phe Thr Arg
            260                 265                 270
His Phe Tyr Arg Ala Leu Leu Gln Arg Ile Phe Val Asp Arg Gly Val
        275                 280                 285
Val Glu Lys Pro Val Asn Pro Thr Asp Leu Tyr Gly Leu Glu Thr Gly
    290                 295                 300
Ala Pro Asp Ala Val Gly Asn Pro Leu Ile Val Gly Ser Val Arg Lys
305                 310                 315                 320
Ala Gly Phe Thr Ser Val Phe Cys Ile Arg Ser Cys Arg Ser Gly
                325                 330                 335
```

<210> 25434
<211> 79
<212> PRT
<213> A.fumigatus

```
<400> 25434
Gln Val Pro Phe Tyr Met Arg Tyr Met Arg Trp Pro Leu Ala Tyr Asn
1               5                   10                  15
Gly His Leu Leu Ser Asp Tyr Val Asn Val Lys Cys Cys Leu Arg Thr
            20                  25                  30
Thr Arg Tyr Leu Asn Ile Lys Arg Gln Asp Lys Phe Gly Tyr Leu Lys
        35                  40                  45
Ser Tyr Lys Ala Val Pro Arg Arg Ser Arg Leu Asn Leu Phe Gln Leu
    50                  55                  60
Ser Met Phe Pro Ser Phe Ser Phe Asn Leu Leu Val Met Leu Ala
65                  70                  75
```

<210> 25435
<211> 110
<212> PRT
<213> A.fumigatus

```
<400> 25435
Gly His Phe Pro Ser Thr Thr Pro Ser Ser Tyr His Val Cys Asp Glu
1               5                   10                  15
Met Tyr Leu Phe Asn Lys Asn Gln Arg Arg Leu Leu Val Tyr Phe Ala
            20                  25                  30
```

```
Val Phe Tyr Val Leu Leu Phe Ile Phe Cys His Phe Asn Ser Ala Arg
        35                  40                  45
Asp Pro Gly Ser Tyr Phe Phe Arg Pro Glu Glu Gly Tyr Arg Pro Gln
    50                  55                  60
Tyr Ser Val Arg Arg Ile Leu Glu Ser Arg His Phe Ile Ser Arg Phe
65                  70                  75                  80
Asn Gln Ser Thr Pro Gln Pro Lys Gln Ser Leu Gln Asn Leu Thr Ser
                85                  90                  95
Gly Val Ser Pro Arg Gly Pro Lys Asp Pro Arg Ser Val Thr
            100                 105                 110
```

<210> 25436
<211> 206
<212> PRT
<213> A.fumigatus

<400> 25436

```
Val Gln Trp Val Arg Arg Lys Pro Ile Ala Trp Glu Cys Asn Ser Thr
1               5                   10                  15
Asn Val Phe Pro Val Pro Ile Tyr Val Leu Gly Phe Arg Phe Ser Ala
            20                  25                  30
His Ser Gln Thr Gly Val Cys Ser Pro Asp Asp Phe Val Gly Arg Val
        35                  40                  45
Phe Ala Ser Cys Met Ala Met Gly Arg Tyr Pro Leu Leu Pro Asn Gln
    50                  55                  60
Arg Lys Glu Phe Val Pro Val Asp Tyr Ile Val His Ala Leu Leu His
65                  70                  75                  80
Ile Ser Lys Ser Lys Asp Asn Leu Gly His Ala Tyr Asn Leu Val His
                85                  90                  95
Pro Asp Lys Thr His Ala Ile Asp Leu Cys Thr Ser Phe Asn Leu Leu
            100                 105                 110
Lys Thr Ile Cys Pro Tyr Pro Met His Gly Val Thr Tyr Thr Glu Trp
        115                 120                 125
Val Gln Ser Leu Ser Leu Ser Pro Glu Asp Pro Leu Tyr Pro Leu Val
    130                 135                 140
Pro Met Leu Lys Glu Arg Val Leu Gly Glu Arg Thr Arg Trp Glu Val
145                 150                 155                 160
Tyr Glu Asn Met Val Glu Tyr Gly Arg Glu Asn Leu His Lys Ala Ile
                165                 170                 175
Lys Asp Ala Pro Asp Ile Leu Ala Cys Gly Pro Met Asp Gln Leu Phe
            180                 185                 190
Ser Arg Tyr Leu Arg Ser Trp Leu Pro Thr Ser Cys Ala Asn
        195                 200                 205
```

<210> 25437
<211> 140
<212> PRT
<213> A.fumigatus

<400> 25437

```
Thr Phe Ala Thr Glu Glu Phe Val Ile Arg Leu Phe Gly Thr Trp Arg
1               5                   10                  15
Lys Cys Gly Glu Ala Gly Pro Phe Leu Lys Val Ser Phe Arg Asp Val
            20                  25                  30
Ser Val Asp Cys Arg Val Ser Trp Leu Lys Arg Phe Ser Thr Gly Phe
        35                  40                  45
```

```
Phe Arg Arg Val Ser Ser Pro Leu Pro Phe Ala Gly Asp Lys Glu Tyr
    50                  55                  60
Phe His Leu Pro Tyr Phe Gly Gly Asp Ala Trp Leu Ala Gln His Ala
65                  70                  75                  80
Gln Tyr Gln Asn Gln Met Val Leu Ser Thr Asp Met Glu Arg Val Phe
                85                  90                  95
Asp Ile Gly Pro Ala Phe Arg Ala Glu Val Lys Ser Arg Thr Ser Gly
            100                 105                 110
Arg His Leu Thr Glu Val Ser Asn Ser Ser Ser Pro Ile Trp Leu Cys
        115                 120                 125
Phe Ala Ser Leu His Ala Cys Tyr Glu Thr Arg Cys
    130                 135                 140
```

<210> 25438
<211> 254
<212> PRT
<213> A.fumigatus

<400> 25438

```
Phe Thr Leu Leu Gly Thr Ala Met Val Leu Glu Glu Asn Tyr Tyr Glu
1               5                   10                  15
Val Met Asp Leu Met Asp Ser Met Ile Val Phe Val Leu Lys Gly Leu
            20                  25                  30
Gln Glu Arg Lys Lys Tyr Arg Asp Leu Ile Glu Ile Val Gln Asn His
        35                  40                  45
Tyr Pro Thr Ala Gln Asp Phe Arg Ile Gly Leu Asp Glu Gln Gly Lys
    50                  55                  60
Ile Pro Arg Ile Ser Phe Lys Glu Ala Lys Arg Met Leu Arg Asp Glu
65                  70                  75                  80
Leu Gly Phe Lys Thr Glu Asp Thr Asp Asp Leu Arg Cys Ala Val Thr
                85                  90                  95
Leu Thr Leu Leu Leu Cys Phe Phe Phe His Leu Pro Gly Leu Thr Gly
            100                 105                 110
His Gln Pro Arg Ser Glu Glu Glu Glu Ala Ala Leu Gly Arg His Phe
        115                 120                 125
Arg Glu Ser Pro Tyr Leu Gly Gln Thr Asp Ile Phe Thr Ile Asp Gln
    130                 135                 140
Tyr Pro Ala Phe Cys Arg Pro Phe Asn Thr His Pro Ser Pro Asp Ala
145                 150                 155                 160
Pro Gly Phe Thr Asn Ser Trp Asp Thr Ile Val Arg Gly Arg Glu Ile
                165                 170                 175
Cys Ser Gly Ser Gln Arg Ile His Lys Tyr Glu Ala Val Cys Lys Ala
            180                 185                 190
Met Ala Ser Arg Asn Met Asp Pro Asp Gly Lys Glu Trp Glu His Tyr
        195                 200                 205
Val Gly Ala Phe Lys Ser Gly Met Pro Pro His Gly Gly Leu Gly Leu
    210                 215                 220
Gly Val Asn Arg Leu Leu Gln Gly Phe Leu Gly Leu Asp Asp Val Arg
225                 230                 235                 240
Glu Thr Thr Leu Phe Pro Arg Asp Val His Arg Thr Ala Pro
                245                 250
```

<210> 25439
<211> 113
<212> PRT
<213> A.fumigatus

<400> 25439
Ser Ser Asn Arg Arg Arg Pro His Gln Ser Val Ala Ala Ile Asp Arg
1 5 10 15
Leu His Arg Asn Arg Ser Leu Arg Trp Gln Ser Ala Val Glu Arg Cys
20 25 30
Arg Ser Asn Cys Gln Val Val Cys Ile Gly Ile Ser Ala Val Ser Arg
35 40 45
Val Lys Val Ala Asn His Arg His Phe Ser Tyr Glu Asp Cys Leu Asn
50 55 60
Phe His Arg Tyr Trp Thr Val Asp Asp Leu Asn Met Cys Gly Glu Tyr
65 70 75 80
Ser Ala Met Arg Ser Ile Val Val Ala Ser Pro Asn Glu Val Ile Lys
85 90 95
Met Pro Met Asn Glu Pro Ala Gln Gly Lys Lys Lys Ser Gln Ile Glu
100 105 110
Glu

<210> 25440
<211> 184
<212> PRT
<213> A.fumigatus

<400> 25440
Tyr Val Thr Arg Met Gly Phe Lys Gln Ile Ala Tyr Arg Gly Pro Glu
1 5 10 15
Thr Gly Ser Arg Ser Val Val Ser His Val Ile Ser Asn Gly Gln Ala
20 25 30
Ile Phe Val Leu Thr Ser Pro Ile Arg Ser Met Ala Gly Thr Gly Ala
35 40 45
Tyr Asp Asp Asp Pro Asp Val Thr Lys Ala Asp Arg Arg Leu Leu Glu
50 55 60
Glu Ile His Asn His Leu Ile Lys His Gly Asp Gly Val Lys Asp Val
65 70 75 80
Ala Phe Arg Ile Glu Gly Asp Ile Glu Ala Val Trp Lys Arg Ala Val
85 90 95
Asp His Gly Ala Ala Pro Val Ala Ala Pro Thr Thr Leu Lys Asp Asp
100 105 110
Arg His Gly Ser Ile Thr Leu Ala Thr Ile Gly Thr Tyr Glu Asp Thr
115 120 125
Val His Ser Leu Ile Asn Arg His Asp Tyr Ser Gly Pro Phe Leu Pro
130 135 140
Gly Tyr Glu Val Val Thr Asp Asp Asp Pro Ile Asn Arg Leu Leu Pro
145 150 155 160
Ser Ile Asp Phe Ile Glu Ile Asp His Cys Val Gly Asn Gln Pro Trp
165 170 175
Asn Gly Val Asp Pro Ile Val Lys
180

<210> 25441
<211> 87
<212> PRT
<213> A.fumigatus

<400> 25441

```
Asn Ile Cys Thr Leu Asp Ser Ser Ile Val Arg Ser Ser Arg Val Gln
1               5                  10                  15
Arg Ser Arg Ser Ile Trp Tyr Thr Ile Ala His Leu Gln Gly Ala Lys
            20                  25                  30
Ser Ile Val Thr Arg Ile Ile Ser Arg Leu Glu Pro Ile Leu Ala Asp
        35                  40                  45
Phe Val Ala Pro Pro Ser Gly Met Leu Ile Lys Val Leu Ser Leu Asp
    50                  55                  60
Pro Gln Pro Lys Gln Lys Glu Gln Ala Met Gln Leu Val Glu Lys Val
65                  70                  75                  80
Glu Thr Arg Asn Gly Ser Ala
                85
```

<210> 25442
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25442

```
Trp Arg Lys Ser Lys Leu Glu Thr Val Leu Pro Asp Ser Trp Gly Pro
1               5                  10                  15
Lys Thr Leu Ser Arg Ala Thr Gly Asn Ser Phe Leu Ala Pro Leu Ala
            20                  25                  30
Asp Lys Gln Thr Ser Val Trp Asn Arg Leu Asn Tyr Ala Ser Ser Ala
        35                  40                  45
Met Asn Ser Lys Thr Asp Gln Lys Ser Ala Asn Gly Trp Gln Gln Phe
    50                  55                  60
Ser Leu Asp His Asp Asp Gln Val Ala Asp Arg Phe Ser Glu Asp Trp
65                  70                  75                  80
Ser Leu Ala Leu
```

<210> 25443
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25443

```
Val Tyr Arg Leu Phe Ile Val Lys Phe Phe Ile Ser Ala Lys Glu Pro
1               5                  10                  15
Thr Val Val Val Asn Met Ser Val Leu Leu Arg Lys Leu Val His Asn
            20                  25                  30
Glu Ala Ile Arg Glu Asp Pro Lys Glu Ile Tyr Gly Trp Arg Val Tyr
        35                  40                  45
Met Leu Ala Cys Ser Val Ser Cys Pro Thr Ile Ser Leu Val Leu Arg
    50                  55                  60
Asp
65
```

<210> 25444
<211> 80
<212> PRT
<213> A.fumigatus

<400> 25444

```
Asn Glu Ala Val Arg Met Asp Pro Arg Lys Asp Leu His Pro Thr Val
```

```
1               5                   10                  15
Gln His Pro Lys Lys Pro Gln Asp Glu Pro Glu Leu Gly Asp Ser Val
            20                  25                  30
Asn Pro Thr Arg Leu Gln Glu Val Thr Pro Ala Gln Gly Leu Thr Pro
        35                  40                  45
Thr Gly Pro Gln Leu Pro Gln Lys Leu Ser Val Pro His Ser Met Val
    50                  55                  60
Pro Lys Glu Ala Gly Thr Lys Gly Thr Ser Thr Pro Gln Val Phe Ala
65                  70                  75                  80
```

<210> 25445
<211> 181
<212> PRT
<213> A.fumigatus

<400> 25445

```
Leu Ser Ser Gly Lys Cys Gly Val Phe Gly Asp Ile Cys Leu Ser Leu
1               5                   10                  15
Val Asp Ala Thr Phe Pro Gly His Leu Leu His Thr Asn Ala Asp Tyr
            20                  25                  30
Lys Cys Met Leu Ile Pro Leu Leu Thr Phe Thr Lys Ile Ser Ile Ile
        35                  40                  45
Ser Lys Pro Gln Glu Ser Arg Ile Ser Leu Ile Ile Cys Arg Thr Met
    50                  55                  60
Pro Thr Val Ala Thr Phe Leu Gly Leu Ala Ile Ser Gly Ala Ala Met
65                  70                  75                  80
Ala Ser Cys Ala Ala Leu Gly Ala Tyr Asn Val Asp Pro Asn Ser Ile
                85                  90                  95
Ser Val Ser Gly Leu Ser Ser Gly Gly Phe Met Ser Ala Gln Leu Gly
            100                 105                 110
Val Ala Tyr Ser Asp Thr Phe Lys Val Gly Phe Gly Val Phe Ala Gly
        115                 120                 125
Gly Pro Tyr Asp Cys Ala Arg Gly Gln Ser Val Arg His Gly Pro Asn
    130                 135                 140
Pro Arg Asn Ser His Phe Gln Phe Gln Tyr Pro Arg Tyr Ala Asp Ala
145                 150                 155                 160
Lys Ser Ser Thr Leu Leu Ala Cys Thr Thr Lys Thr His Pro Ser Arg
                165                 170                 175
Pro Pro Ser Pro Thr
            180
```

<210> 25446
<211> 97
<212> PRT
<213> A.fumigatus

<400> 25446

```
Asn Asp Ile Asp Gly Val Ser Gly Phe Lys Thr Gly Pro Thr Ser Thr
1               5                   10                  15
Ser Ala Ser Pro His Leu Lys Ser Ala Ser Ile Gln Tyr Tyr Ala Tyr
            20                  25                  30
Leu Ser Glu Thr Cys Lys Thr Ser Ala Leu His Phe Thr Lys Ser Ala
        35                  40                  45
Ala Ser Ala Asn Glu Cys Asp Asn Thr Gly Arg Ser Asp Ser Trp Lys
    50                  55                  60
Asn Leu Glu Glu Cys Pro Met Gly Val Val Glu Glu Glu Arg Ser Ile
```

65 70 75 80
Arg Trp Lys Pro Glu Ile Pro Gly Lys Gln Arg Gly Glu Ser Gly Gln
85 90 95
Thr

<210> 25447
<211> 107
<212> PRT
<213> A.fumigatus

<400> 25447
Thr Gln Lys Asp Leu Pro Val Gln Phe Leu Ser Val Ala Glu Pro Leu
1 5 10 15
Asp Ala Arg Leu Val Ile Gly Ser Phe Gly Ser Ser His Ala Tyr Asn
20 25 30
Glu Pro Ala Phe Pro Leu Ile Val Ala Arg Asn Pro Asp Glu Pro Val
35 40 45
Pro Thr Val Glu Val Ser Arg Tyr Gly Lys Leu Pro Glu Ile His His
50 55 60
Ile Phe Lys Ser Asp Pro Gln Ser Pro Pro Val Ile Val Thr Leu Val
65 70 75 80
Phe Ile Gly Met Val Leu Ala Ala Phe Pro Val Leu Gly Gly Leu Val
85 90 95
Ser Arg Phe Leu Gln Thr Thr Leu Ser Met Phe
100 105

<210> 25448
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25448
Trp Leu Phe Ile Gly Val Asn Leu Asn His Leu Pro Thr Ala Phe Lys
1 5 10 15
Ser Ala Pro Ile Pro His Ala Val Phe Leu Gly Ser Leu Val Ser Ile
20 25 30
Glu Trp Ile Phe Leu Pro Leu Leu Leu Pro Leu Asp Thr Leu Pro Asp
35 40 45
Ser Ser Ser Cys Arg Cys Gly Arg Cys Cys Arg Ile His
50 55 60

<210> 25449
<211> 498
<212> PRT
<213> A.fumigatus

<400> 25449
Lys Ile Leu Leu Thr Pro Val Pro Leu Val Ile Pro Arg Phe Val Pro
1 5 10 15
Ser Trp Glu Asp Tyr Thr Arg Val Leu Glu Leu Ala Lys His Phe Glu
20 25 30
Gln Leu Ser Cys Glu Phe Glu Glu Glu Arg Gln Arg Glu Arg Gln Gln
35 40 45
Arg Ala Ala Lys Gly Thr His Ser Arg Ala Tyr Pro Leu Ala Ser Ser
50 55 60

```
Lys Pro Ile Val Glu Val Tyr Lys Asn Val Arg Asp Ala Val Glu Glu
65                  70                  75                  80
Arg Glu Leu Ser Gly Glu Gly Glu Asp Phe Met Pro Ser Thr Thr Pro
                85                  90                  95
Arg Leu Pro Leu Asn Glu Ser Ser Ile Glu Ser Gly Glu Ser Leu Glu
            100                 105                 110
Arg Thr Ser Glu Glu Glu Pro Arg Gly Glu Pro Val Leu Gln Arg Ser
        115                 120                 125
Ser Thr His Pro Ser Thr Thr Glu Asp Lys Ala Gln Gly Asp Arg Pro
    130                 135                 140
Thr Gly Ser Glu Gly Glu Glu Glu Met His Ser Asp Glu Asp Arg Ala
145                 150                 155                 160
Leu Ala Glu Asp Leu His Thr Thr Asp Ser Asn Asp Glu Leu Ala Lys
                165                 170                 175
Leu Ser Pro Glu Asp Glu Gln Leu Asp Leu Lys Glu Leu Pro Lys His
            180                 185                 190
Glu Arg Ser Asn Leu Leu Lys Met Leu Thr Asn Phe Trp Ser Glu Arg
        195                 200                 205
Ser Ala Ser Gly Trp Ala Ser Leu Asp Tyr Pro Leu Ser Met Ser Asp
    210                 215                 220
His Val Phe Ala Asp Cys Asp Ile Ile Val Arg Glu Asp Glu Pro Ser
225                 230                 235                 240
Ser Leu Val Ala Phe Ala Leu Ala Ser Ser Asp Tyr Lys Glu Lys Leu
                245                 250                 255
Ala Asn Ile Gln Lys Arg Tyr Glu Gln Leu Asp Glu Lys Lys Ser Ile
            260                 265                 270
Ser Lys Glu Gly Ser Asp Ala Met Asn Glu Ala Gln Val Glu His Ala
        275                 280                 285
Leu Leu Arg Ser Thr Gly Thr His Leu Lys Tyr Gln Phe Gln Glu Gly
    290                 295                 300
Gln Ala Lys Met Leu Cys Lys Ile Phe Tyr Ala Glu Gln Phe Asp Ala
305                 310                 315                 320
Leu Arg Lys Lys Cys Gly Val Ala Glu Arg Ile Val Glu Ser Leu Ser
                325                 330                 335
Arg Cys Ala Lys Trp Asp Ser Lys Gly Gly Lys Thr Asn Ser Leu Phe
            340                 345                 350
Leu Lys Thr Leu Asp Asp Arg Phe Ile Leu Lys Ser Leu Ser Pro Ile
        355                 360                 365
Glu Thr Gln Ala Phe Leu Lys Phe Ala Pro Ala Tyr Phe Gln Ile Met
    370                 375                 380
Ser Glu Ala Leu Phe His Glu Leu Pro Ser Ala Ile Ala Lys Met Phe
385                 390                 395                 400
Gly Phe Tyr Gln Val Ile Ile Lys Asn Pro Ala Thr Gly Thr Glu Phe
                405                 410                 415
Asn Trp Phe Leu Leu Leu Met Glu Asn Leu Phe Tyr Asp Arg Val Pro
            420                 425                 430
Thr Arg Ile Phe Asp Leu Lys Gly Ser Met Arg Asn Arg Lys Val Gln
        435                 440                 445
Ser Thr Gly Glu Arg Asn Glu Val Leu Leu Asp Glu Asn Met Val Asp
    450                 455                 460
Phe Ile Tyr Glu Thr Pro Leu Phe Ala Met Glu His Ser Lys Lys Leu
465                 470                 475                 480
Leu Ser Gln Ser Val Trp Asn Asp Thr Leu Phe Leu Gly Arg Gln Asn
                485                 490                 495
Val Met
```

<210> 25450
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (50),(53)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25450
Ser Ala Ala Cys Thr Gly Thr Tyr Gly Gln Arg Thr Pro Pro Met Cys
1 5 10 15
His Cys Cys Gln Asp Leu Phe Trp Ser Asp Ser Tyr Thr Ala Val Ile
20 25 30
Ser Ile Tyr Arg Pro Thr Phe Thr Ile Val Ala Glu Ser Arg Ser Leu
35 40 45
His Xaa Glu Ala Xaa Ile His Thr Val Ile Lys Thr Pro Ala
50 55 60

<210> 25451
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25451
Val Arg Tyr Thr Leu Ser Ala Val Pro Ser Thr Pro Val Val Lys Ile
1 5 10 15
Leu Pro Ala Gly Asp Ile Lys Pro Ser Ile Phe Val Asn Leu Lys Lys
20 25 30
His Met Met His Phe Ala Ile Gly Asp Asn Ala Glu Ser His Gln Ala
35 40 45
Leu Ile Leu Thr Arg Glu Lys Ala Arg Gly Trp Gly Lys Gly Val Gly
50 55 60
Arg Gln Tyr
65

<210> 25452
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25452
Arg Pro Asp Arg Ser Tyr Gly Val Thr Arg Leu Pro Met Leu Ser Arg
1 5 10 15
Pro Glu Asp His Tyr Tyr Cys Ala Ser Phe Leu Pro Ala Gly Gly Pro
20 25 30
Leu Lys Gln Tyr Ser Tyr Val Ile Ile Pro Ser Ser Val Tyr Lys Pro
35 40 45
Ser Leu Ser Phe Arg Gly Lys Val Tyr Leu Cys Tyr Lys Ser Cys Lys
50 55 60
Ser Phe Phe Trp
65

<210> 25453

<211> 80
<212> PRT
<213> A.fumigatus

<400> 25453
Leu Lys Thr Pro Thr Pro Pro Gly Ser Gln Ser Thr Asn Ser Val Pro
1 5 10 15
Lys Thr Pro Tyr Thr Thr Arg Gln Leu Glu Lys Gln Ala Ser Ala Val
20 25 30
Lys Lys Leu Leu Lys Glu His Thr Gln Ser Pro Phe Pro Leu Leu Glu
35 40 45
Ala Gln Leu Asp Lys Ile Ile Lys Gly Tyr Lys Met Thr Leu Asn Glu
50 55 60
Leu Ile Leu Met Arg Asp Glu Ile Arg Lys His Arg Ala Asn Asn Glu
65 70 75 80

<210> 25454
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (29),(43)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25454
Gly Ser Ser Phe Gly Trp Lys Arg Phe Val Ala Ala Gly Ala Ser Gly
1 5 10 15
Val Ile Gln Ser Gly Asn Lys Gly Ala Ile Val Trp Xaa Tyr Phe Pro
20 25 30
His Phe Trp Gln Gly Arg Val Tyr Phe Gly Xaa Trp Ile Ala Leu Pro
35 40 45
Glu Ile Asn Ala Asp Val Ser Ile Lys Pro Phe Gln Pro Tyr Gly Arg
50 55 60
Ser Asn Ile Leu Cys Ser Pro Arg Gly Arg
65 70

<210> 25455
<211> 182
<212> PRT
<213> A.fumigatus

<400> 25455
Phe Ser Val Cys Leu Tyr Ser Thr Val His Ser Ser Leu Ser Tyr Pro
1 5 10 15
Leu Thr Ile His Val Arg His Phe Phe Cys Ala Tyr Asp Gln Asp Tyr
20 25 30
Val Arg Val Val Ser Arg Arg Leu Thr Asn Phe Val Leu Ser Thr Leu
35 40 45
Pro Asn Pro Thr Gly Pro Ser Gln Leu Ile Ile Ile Gly Cys Gly Asp
50 55 60
Ser Gln Arg Ile Val Pro Tyr Val Ser Glu Thr Ala Ala Ala Phe Pro
65 70 75 80
Ile Tyr Thr Asp Arg Met Gly Lys Ile Tyr Lys Lys Leu Leu Met Lys
85 90 95

```
Arg Thr Thr Ser His Ile Thr Gln Pro Pro Ser Tyr Ala Gln Val Ser
            100                 105                 110
Phe Phe Gly Ala Leu Gly Lys Thr Phe Gly Gln Met Phe Arg Ser Gly
        115                 120                 125
Trp Gln Ala Phe Arg Gly Gly Ser Trp Ser Gln Asn Gly Gly Glu Trp
    130                 135                 140
Val Phe Arg Gly Gly Lys Ser Phe Tyr Val His Arg Met Glu His Val
145                 150                 155                 160
Ser Asp His Leu Thr Ala Asp Arg Leu Leu Glu Val Leu Ser Leu Asp
                165                 170                 175
Glu Pro Ala Gln Thr Lys
            180
```

<210> 25456
<211> 176
<212> PRT
<213> A.fumigatus

<400> 25456

```
Asp Thr Asp Gly Gly Gln Trp Met Gly Arg Val Pro Gly Cys Pro Asp
1               5                   10                  15
Gly Ala Val Glu Leu Gln His Arg His Ala Glu Tyr Arg Glu Leu Tyr
            20                  25                  30
Val Arg Trp Leu Gln Trp Ala Thr Leu Leu Pro Phe Met Arg Thr Leu
        35                  40                  45
Gly Ser Arg Lys Cys Asn Val Gln Asn Ala His Thr Cys Asn Asn Glu
    50                  55                  60
Trp Trp Ser Tyr Gly Glu Glu Asn Thr Pro Met Ile Val Ser Tyr Ile
65                  70                  75                  80
Gln Leu Arg Tyr Gln Leu Lys Val Tyr Leu Gln Ala Leu Phe Glu Gln
                85                  90                  95
Ile His His Thr Tyr Asp Ala Ala Val Tyr Gly Phe Arg Thr Asp Arg
            100                 105                 110
Ser Ala Asp Arg Glu Asp Asp Ala Gly Glu Cys Gln Cys Tyr His Ala
        115                 120                 125
Ala Val His Val Trp Leu Ala Ala Ala Cys His Pro Val Thr Ile Pro
    130                 135                 140
Asn Ala Pro Ser Gly Arg Cys Ile Cys Arg Arg Arg Ala Arg Val Arg
145                 150                 155                 160
Gln Ser Arg Gly Arg Thr Gly Gly Gln Thr Arg His Met Leu Val Asp
                165                 170                 175
```

<210> 25457
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25457

```
Leu Val Ala Phe Ser Leu Val Val Pro Ser Gly Asn Asp Asp Arg Ser
1               5                   10                  15
Phe Asn Trp Tyr Ala Ser Gly Asp Thr His Gln Ala Arg Gly Thr Ile
            20                  25                  30
Gln Asp Thr Ile Gln Pro Asp Asn Thr Trp Gln Gln Ser Ala Pro Asn
        35                  40                  45
Glu Trp His Asp His Ser Val Ser Leu Gly Ser Met Glu Thr Ala Ser
    50                  55                  60
```

```
Tyr Gly Thr Ser Glu Arg Gly Leu Tyr Trp Leu Trp Asp Met Ser Trp
65                  70                  75                  80
Asn Gly Thr Glu Ser
                85
```

<210> 25458
<211> 159
<212> PRT
<213> A.fumigatus

<400> 25458

```
Ser Arg Leu Gly Ser Ala Leu Lys Tyr Gly Ala Thr His Thr Tyr Gln
1               5                  10                  15
Met Thr Pro Asp Ser Ser Glu Gln Asn Ala Glu Glu Ile Leu Asn Lys
            20                  25                  30
Val Glu Leu Glu Thr Gly Ala Asp Val Val Leu Asp Ala Thr Gly Ala
        35                  40                  45
Glu Pro Cys Leu Asn Cys Gly Ile His Ile Leu Ala Ser Gly Gly Thr
    50                  55                  60
Phe Val Gln Val Gly Leu Gly Lys Pro Asn Pro Ser Leu Pro Val Cys
65                  70                  75                  80
Gln Ile Cys Asp Lys Glu Ile Val Phe Lys Gly Ser Phe Arg Tyr Gly
                85                  90                  95
Pro Gly Asp Tyr Gln Thr Ala Ile Glu Leu Leu His Ser Arg Arg Ile
            100                 105                 110
Arg Leu Asp Gly Leu Val Thr His Glu Phe Pro Phe Thr Gln Ala Glu
        115                 120                 125
Asp Ala Phe Gln Asn Val Val Ser Arg Ala Gly Ile Lys Ser Val Ile
    130                 135                 140
Tyr Gly Pro Gly Val Asp Glu His Val Ala Lys Pro Thr Leu Thr
145                 150                 155
```

<210> 25459
<211> 225
<212> PRT
<213> A.fumigatus

<400> 25459

```
Thr Ala Met Ile Val Ala Tyr Phe Phe Leu Asp Lys Arg Leu His Val
1               5                  10                  15
Lys Ile Tyr Asp Ala Asp Glu Glu Val Tyr Gln Val Pro Glu Ser Val
            20                  25                  30
Leu Pro Arg Val Asp Gly Lys Gly Gly Ser Ser Lys Lys Ser Ala Leu
        35                  40                  45
Lys Phe Asp Tyr Gln Ala Asn Pro Phe Ser Phe Lys Val Lys Arg Gly
    50                  55                  60
Gly Glu Val Leu Phe Asp Thr Ser Gly Ser Asn Leu Ile Phe Gln Ser
65                  70                  75                  80
Gln Tyr Leu Ser Leu Arg Thr Trp Leu Pro Glu Asp Pro Asn Leu Tyr
                85                  90                  95
Gly Leu Gly Glu His Thr Asp Ser Leu Arg Leu Glu Thr Thr Asn Tyr
            100                 105                 110
Thr Arg Thr Leu Trp Asn Arg Asp Ala Tyr Ala Ile Pro Glu Lys Thr
        115                 120                 125
Asn Leu Tyr Gly Thr His Pro Val Tyr Tyr Asp His Arg Gly Gln His
    130                 135                 140
```

```
Gly Thr His Gly Val Phe Leu Leu Asn Ser Asn Gly Met Asp Ile Lys
145                 150                 155                 160
Ile Asp Lys Thr Lys Asp Gly Lys Gln Tyr Leu Glu Tyr Asn Thr Leu
                165                 170                 175
Gly Gly Val Phe Asp Phe Tyr Phe Phe Thr Gly Ala Thr Pro Lys Asp
            180                 185                 190
Ala Ser Ile Glu Tyr Ala Lys Val Val Gly Leu Pro Ala Met Gln Ser
        195                 200                 205
Tyr Trp Thr Phe Gly Val Arg Phe Pro Asp Ser Ile Cys Gly Pro Ser
    210                 215                 220
Gly
225
```

<210> 25460
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25460

```
Pro Tyr Thr Gly Ala Val Trp Pro Gly Val Thr Ala Tyr Pro Asp Trp
1               5                   10                  15
Phe His Pro Asp Ile Gln Lys Tyr Trp Asn Asp Gln Phe Ala Lys Phe
            20                  25                  30
Phe Asp Pro Lys Thr Gly Val Asp Ile Asp Gly Leu Trp Ile Asp Met
        35                  40                  45
Asn Glu Ala Ala Asn Phe Cys Pro Tyr Pro Cys Ser Asp Pro Glu Gly
    50                  55                  60
Tyr Ala Arg Asp Asn Asp Leu Pro Pro Ala Ala Pro Pro Val Arg Pro
65                  70                  75                  80
Ser Asn Pro Arg Pro Leu Pro Gly Phe Pro Gly Asp Phe Gln Pro Ser
                85                  90                  95
Ser Ser Ser Lys Arg Ser Thr Lys Gly Ser Lys Val Gly Leu Pro Asn
            100                 105                 110
Arg Asp Leu Ile Asn Pro Pro Tyr Met Ile Arg Asn Glu Ala Gly Ser
        115                 120                 125
Leu Ser Asn Lys Thr Ile Asn Thr Asp Ile Ile His Ala Gly Glu Gly
    130                 135                 140
Tyr Ala Glu Tyr Leu His His Gly Gly Arg Arg Asn Arg Ala Lys Arg
145                 150                 155                 160
Ala
```

<210> 25461
<211> 71
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25461

```
Ile Gly His Xaa Glu Val Gly Phe Phe Arg Pro Arg Gly Glu Asp Pro
1               5                   10                  15
Ile Cys Arg Glu Gly Arg Asp Ser Leu Thr Ala Asp Leu Thr Leu Ala
```

```
            20                  25                  30
Gly Lys Pro Cys Asn Thr Tyr Gly Thr Asp Leu Lys Asn Leu Lys Leu
        35                  40                  45
Leu Val Glu Tyr Gln Thr Gly Thr Phe Ser Ala Leu Asn Gly Tyr Asp
    50                  55                  60
Cys Ser Leu Leu Leu Ser Arg
65                  70
```

<210> 25462
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25462

```
Phe His Gln Cys Arg Tyr Gly Tyr Arg Asp Val Phe Glu Val Ala Glu
1               5                   10                  15
Val Val Tyr Asn Tyr Ser Gln Ala Lys Ile Pro Leu Glu Thr Met Trp
            20                  25                  30
Thr Asp Ile Asp Tyr Met Asp Arg Arg Arg Val Phe Thr Leu Asp Pro
        35                  40                  45
Glu Arg Phe Pro Leu Glu Lys Met Arg Glu Leu Val Ser Tyr Leu His
    50                  55                  60
Asn His Asn Gln His Tyr Ile Val Met Val Asp Pro Ala Val Ser Val
65                  70                  75                  80
Ser Gly Lys Phe Thr Phe Pro Ser Met Glu Gly Val Gly Ala Tyr
                85                  90                  95
```

<210> 25463
<211> 271
<212> PRT
<213> A.fumigatus

<400> 25463

```
Thr Ala Pro Thr Pro Ala Thr Arg His Leu Pro Asn Met Ile Arg Val
1               5                   10                  15
Leu Ile Thr Gly Ser Ala Asp Gly Leu Gly Leu Glu Ala Ala Arg Gln
            20                  25                  30
Leu Ala Asn Arg Gly His Thr Val Tyr Leu His Ala Arg Asn Glu Lys
        35                  40                  45
Arg Ala Ala Asp Ala Lys Ala Ala Cys Pro Gly Ala Ala Gly Val Leu
    50                  55                  60
Ile Ala Asp Leu Ser Asn Leu Ala Glu Thr Arg Arg Leu Ala Asp Glu
65                  70                  75                  80
Ala Asn Ala Ile Gly Gln Phe Asp Ala Val Ile Leu Asn Ala Gly Met
                85                  90                  95
Leu Tyr Gly Pro Phe Arg Lys Thr Pro Asp Thr Gly Ile Pro Ala Met
            100                 105                 110
Val Phe Val Asn Val Val Ala Pro Tyr Ile Leu Thr Cys Leu Leu Arg
        115                 120                 125
Arg Pro Lys Arg Leu Val Phe Ile Ser Ser Gln Leu His Arg Gln Gly
    130                 135                 140
Asp Ala Ser Val Glu Asp Ile Phe Trp Phe Lys Arg Gly Glu Gly Arg
145                 150                 155                 160
Phe Gln Asp Phe Pro Ala Tyr Cys Asp Ser Lys Leu His Val Leu Leu
                165                 170                 175
Leu Ala Asn Ala Val Ala Arg Arg Tyr Lys Asp Thr Ser Val Val Ser
```

```
            180                 185                 190
Val His Pro Gly Trp Ile Ala Thr Lys Leu Gly Gly Glu Gly Ala Pro
        195                 200                 205
Asp Lys Leu Glu Asp Gly Val Asp Thr Tyr Val Met Leu Ala Glu Gly
    210                 215                 220
Asp Tyr Asp Arg Asn Leu Thr Gly Lys Tyr Phe Glu Pro Lys Arg Val
225                 230                 235                 240
Leu Gly Arg Pro Leu Pro Ala Ser Glu Asp Ile Asn Leu Gln Glu Lys
                245                 250                 255
Val Val Lys Ala Cys Glu Glu Val Thr Gly Leu Lys Leu Ser Ala
            260                 265                 270
```

<210> 25464
<211> 318
<212> PRT
<213> A.fumigatus

<400> 25464

```
Tyr Ala Phe Pro Ser Val Pro Gly Gly Val Arg His Glu Gly Ile Leu
1               5                   10                  15
Val Ala Leu Ile Thr Pro Phe Thr Asp Asp Gln Lys His Ile Asp Ala
            20                  25                  30
Ala Cys Leu Lys Ala His Ile Asp Arg Leu Ile Ala Ala Gly Ile His
        35                  40                  45
Gly Leu Val Pro Gly Gly Ser Thr Gly Glu Phe Thr Thr Met Thr Thr
    50                  55                  60
Ala Glu Arg Lys Glu Leu Thr Glu Leu Cys Ile Lys Phe Ala Ala Gly
65                  70                  75                  80
Arg Val Pro Val Val Val Gly Thr Gly Ser Thr Ser Thr Ala Glu Ala
                85                  90                  95
Leu Glu Leu Ala Thr His Ala Ala Ser Val Gly Ala Ala Ala Leu Met
            100                 105                 110
Val Val Pro Pro Phe Tyr Asp Pro Val Ser Leu Glu Gln Leu Thr Glu
        115                 120                 125
Leu Met Ala Glu Ile His Thr Ala Ser Gly Leu Pro Ile Met Tyr Tyr
    130                 135                 140
Asn Ile Pro Ser Ala Ser Gly Leu Lys Leu Thr Pro Gly Glu Ile Ala
145                 150                 155                 160
Gly Leu Ser Lys Val Gly Val Lys Tyr Leu Lys Asp Thr Ser Gly Asp
                165                 170                 175
Ala Pro Ala Phe Thr Glu Leu Val Phe Gly Leu Ser Asp Lys Ile Thr
            180                 185                 190
Ala Phe Asn Gly Tyr Asp Thr Leu Thr Phe Tyr Gly Leu Ala Ala Gly
        195                 200                 205
Cys Pro Gly Gly Val Trp Gly Ala Ala Asn Phe Ile Pro Glu Leu Ala
    210                 215                 220
Val Glu Leu Tyr Glu Thr Val Ser Val Lys Lys Asp Leu Lys Arg Gly
225                 230                 235                 240
Arg Glu Leu Trp Thr Lys Ile Trp Pro Ile Cys Lys Phe Leu Glu Ser
                245                 250                 255
His Asn Tyr Ala Ala Ala Val Lys Ala Gly Val Glu Leu Thr Gly Gln
            260                 265                 270
Glu Thr Gly Gly Leu Arg Asn Pro Phe Lys Ser Leu Gly Pro Glu Leu
        275                 280                 285
Gln Ala Glu Leu Lys Gln Leu Leu Ile Asp Ala Gly Val Ser Thr Val
    290                 295                 300
```

```
Arg Met Ala Ser Leu His Pro Gly Trp Lys Phe Asp Gly Val
305                 310                 315

<210> 25465
<211> 185
<212> PRT
<213> A.fumigatus

<400> 25465
Gln Ser Thr Ala Phe Ser Val Asn Gln His Leu Val Ser Tyr Leu Ala
1               5                   10                  15
Leu Tyr Ser Asp Val Arg Asn Pro Tyr Arg Asp Leu Thr Phe Leu Val
            20                  25                  30
Gly Asp Ser Pro Val Leu Ala His Ala Leu Ala Ala Thr Gly Ala Leu
        35                  40                  45
His His Ala Ile Leu Arg Asn Leu Glu Phe Ser Leu Pro Trp Ser Pro
    50                  55                  60
Tyr Thr Ala Gly Asp Gly Gly Thr Ala Leu Ser Pro Glu Glu Val Glu
65                  70                  75                  80
Arg Ala Val Ile Ser Ser Met Ala Arg Arg Pro Ser Ser Lys Asp Tyr
                85                  90                  95
Glu His Phe Leu Gly Phe Lys Gln Arg Ala Leu Arg Gln Leu Ser Leu
            100                 105                 110
Asp Ile Cys Asp Pro Ile Met Arg Asn Asp Asn Arg Thr Leu Ala Ala
        115                 120                 125
Ile Met Val Leu Ala Leu Met Asp Ala Ile Glu Ser Gly Asp Gly Ala
    130                 135                 140
Trp Lys Tyr His Leu Glu Gly Ala Lys Lys Leu Leu Lys Ser Arg Gln
145                 150                 155                 160
Gln Ser Glu Ser Pro Thr Gln Ala Gln Gly Met Met Asn Trp Leu Asp
                165                 170                 175
Thr Phe Ala Ile Asp Gly Cys Leu Leu
            180                 185

<210> 25466
<211> 116
<212> PRT
<213> A.fumigatus

<400> 25466
Ser Ile Ile Ser Arg Ile Gln Leu Met Gly Ser Thr Leu Ala Arg Pro
1               5                   10                  15
Gly Ser Leu Thr Gln Pro Phe Tyr Ser Ser Thr Met Gly Pro Ala Val
            20                  25                  30
Leu Lys Arg Leu Glu Glu Thr Ser Trp Val Gly Cys Pro Ala Tyr Leu
        35                  40                  45
Leu Glu Val Ile Phe Phe Val Glu Ala Gly His Phe Met Ala Pro Gly
    50                  55                  60
Lys Asp Pro Phe Ser Gln His Thr Thr Ser Phe Ser Ser Val Phe Leu
65                  70                  75                  80
Pro Asp Asp Ser Lys Pro Leu Gln Ser Pro Glu Ala Leu Leu Gly His
                85                  90                  95
Ile Gln Ala Phe Asp Pro Val Ala Trp Ala Glu Ser Met Gln Ser Cys
            100                 105                 110
Leu Tyr Leu Glu
        115
```

<210> 25467
<211> 83
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (36)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25467
Lys Gly Ile Cys Asp Leu Glu Ile Ser Leu Leu Leu Glu Ser Asn Leu
1 5 10 15
Thr Met Ala Ala Val Phe Ser Asp Asn Asp Asn Asn Leu Asp Gly Thr
20 25 30
Ile Gly Glu Xaa Gly Pro Ser Lys Ser Glu Val Val Ala Glu Thr Ile
35 40 45
Arg Arg Asn Glu Met Ala Phe Phe Gly Ser Thr Gly Ser Pro Gln Lys
50 55 60
Ala Gln Phe Phe Pro Ile Ala Lys Gly Asn Trp Ser Asn Val Trp Arg
65 70 75 80
Ala Asn Pro

<210> 25468
<211> 88
<212> PRT
<213> A.fumigatus

<400> 25468
Lys Ile Lys Tyr Phe Asp Thr Val His Ile Ala Ser Ser Leu Leu Ile
1 5 10 15
Leu Lys Ser Gly Phe Leu Tyr Val Ala Ser Glu Ala Gly Asn His His
20 25 30
Phe Tyr Gln Phe Glu Lys Leu Gly Asp Asp Asp Glu Glu Thr Glu Phe
35 40 45
Asn Ser Glu Asn Phe Pro Ala Asp Leu Ser Val Thr Cys Glu Pro Val
50 55 60
Phe Phe Arg Pro Arg Gly Ala Glu Asn Leu Asn Leu Arg Arg Asp Ala
65 70 75 80
Gln Leu Ser Gln Pro Phe Asp Arg
85

<210> 25469
<211> 419
<212> PRT
<213> A.fumigatus

<400> 25469
Arg Val Val Ser Phe Thr Leu Pro Val Lys Gln Glu Thr Ile Thr Ser
1 5 10 15
Thr Asn Ser Arg Ser Trp Glu Thr Thr Thr Lys Arg Leu Asn Ser Thr
20 25 30
Val Lys Thr Phe Leu Arg Ile Ser Leu Leu Pro Val Ser Arg Cys Ser
35 40 45

```
Ser Asp Arg Glu Glu Leu Lys Thr Ser Thr Phe Val Glu Thr Leu Asn
    50                  55                  60
Ser Leu Asn Pro Leu Ile Asp Ser Lys Ile Val Asn Leu Asn Glu Asp
65                  70                  75                  80
Asp Ala Pro Gln Ile Tyr Thr Val Ser Gly Ser Gly Ala Arg Ser Ser
                85                  90                  95
Phe Arg Thr Leu Lys His Gly Leu Glu Val Ser Glu Ile Val Glu Ser
            100                 105                 110
Glu Leu Pro Ser Val Pro Ser Ala Val Trp Thr Thr Lys Leu Thr Arg
        115                 120                 125
Ala Asp Glu Phe Asp Ala Tyr Ile Ile Leu Ser Phe Ala Asn Gly Thr
    130                 135                 140
Leu Val Leu Ser Ile Gly Glu Thr Val Glu Glu Val Thr Asp Thr Gly
145                 150                 155                 160
Phe Leu Ser Thr Ala Pro Thr Leu Ala Val Gln Gln Leu Gly Glu Asp
                165                 170                 175
Ser Leu Ile Gln Val His Pro Arg Gly Ile Arg His Ile Leu Ala Asp
            180                 185                 190
Arg Arg Val Asn Glu Trp Pro Ala Pro Gln His Arg Ser Ile Val Ala
        195                 200                 205
Ala Ala Thr Asn Glu Arg Gln Val Ala Val Ala Leu Ser Ser Gly Glu
    210                 215                 220
Ile Val Tyr Phe Glu Met Asp Ala Asp Gly Thr Leu Ala Glu Tyr Asp
225                 230                 235                 240
Glu Arg Arg Gln Met Ser Gly Thr Val Thr Cys Leu Ser Leu Gly Glu
                245                 250                 255
Val Pro Glu Gly Arg Val Arg Ser Ser Phe Leu Ala Val Gly Cys Asp
            260                 265                 270
Asp Ser Thr Val Arg Ile Leu Ser Leu Asp Pro Asp Ser Thr Leu Glu
        275                 280                 285
Asn Lys Ser Val Gln Ala Leu Thr Ser Ala Pro Ser Ala Leu Asn Ile
    290                 295                 300
Met Ser Met Ala Asp Ser Ser Ser Gly Gly Thr Thr Leu Tyr Leu His
305                 310                 315                 320
Ile Gly Leu Tyr Ser Gly Val Tyr Leu Arg Thr Val Leu Asp Glu Val
                325                 330                 335
Thr Gly Glu Leu Ser Asp Thr Arg Thr Arg Phe Leu Gly Ala Lys Pro
            340                 345                 350
Val Lys Leu Phe Arg Val Ser Val Lys Gly Gln Thr Ala Val Leu Ala
        355                 360                 365
Leu Ser Ser Arg Pro Trp Leu Gly Tyr Ser Asp Ile Gln Thr Lys Gly
    370                 375                 380
Phe Met Leu Thr Pro Leu Asp Tyr Val Gly Leu Glu Trp Gly Trp Asn
385                 390                 395                 400
Phe Ser Ser Glu Gln Cys Val Glu Gly Met Val Gly Ile Gln Ala Gln
                405                 410                 415
Asn Leu Arg
```

<210> 25470
<211> 79
<212> PRT
<213> A.fumigatus

<400> 25470
Thr Thr Leu Lys Arg Leu Ala Ile Tyr Val Gly Val Lys Glu Pro Ala

```
1               5                   10                  15
Met Cys Thr His Cys Val Ile Met Asp Tyr Ile Ile Thr Ser Cys Gly
            20                  25                  30
Thr Ser Thr Ala Asn Thr Ser Thr Pro Pro Ser Ile Cys Asp Leu Asp
        35                  40                  45
Gly Met Leu Pro Arg Arg Ile Asn Ser Ala His Leu Asp Ile Met Gly
    50                  55                  60
Ser Met Pro Ile Val Ala Thr Ala Thr Thr Val Ser Pro Leu Gln
65                  70                  75
```

<210> 25471
<211> 426
<212> PRT
<213> A.fumigatus

<400> 25471

```
Arg Val Gly Leu Tyr Ser Gly Ser Gly Thr Leu Gly Leu Ile Gln Ala
1               5                   10                  15
Leu Arg Glu Leu Lys Tyr Lys Gly Gly Val Thr Ile Ile Ser Lys Glu
            20                  25                  30
Pro Asn Leu Ile Ile Asp Arg Thr Lys Leu Ser Lys Ala Leu Ile Pro
        35                  40                  45
Asp Ala Glu Lys Ile Gln Trp Arg Pro Lys Glu Trp Tyr Glu Ala Ala
    50                  55                  60
Ser Ile Glu Thr Ile Phe Asp Glu Val Thr Ser Val Asp Phe Ser Ser
65                  70                  75                  80
Lys Ser Val Ser Thr Lys Ser Gly Lys Ser Ile Pro Tyr Thr Lys Leu
                85                  90                  95
Val Leu Ala Thr Gly Gly Val Pro Arg Thr Leu Pro Met Lys Gly Phe
            100                 105                 110
Asn Asp Leu Gly Asn Ile Phe Leu Leu Arg Phe Val Thr Asp Val Gln
        115                 120                 125
Asn Ile Leu Lys Ala Val Gly Asp Lys Asn Lys Lys Ile Val Ile Val
    130                 135                 140
Gly Ser Ser Phe Ile Gly Met Glu Val Gly Asn Ala Leu Ser Lys Glu
145                 150                 155                 160
Asn Glu Val Thr Ile Val Gly Gln Glu Glu Ala Pro Met Glu Arg Ile
                165                 170                 175
Met Gly Val Glu Val Gly Arg Ile Phe Gln Arg Asn Leu Glu Lys Asn
            180                 185                 190
Gly Val Lys Phe Lys Met Ala Thr Gly Val Glu Lys Ala Thr Pro Ser
        195                 200                 205
Thr Ala Asp Pro Thr Lys Val Gly Ala Val His Leu Lys Asp Gly Thr
    210                 215                 220
Val Leu Pro Ala Asp Leu Val Ile Leu Gly Val Gly Val Arg Pro Ala
225                 230                 235                 240
Thr Asp Phe Leu Arg Asp Asn Pro Ala Val Gln Leu Glu Lys Asp Gly
                245                 250                 255
Ser Leu Lys Thr Asp Glu Tyr Phe Ala Val Pro Gly Leu Asn Asn Asp
            260                 265                 270
Val Phe Ala Ile Gly Asp Ile Ala Thr Tyr Pro Tyr Arg Gly Pro Gly
        275                 280                 285
Ala Asp Pro Val Asn Gly Thr Ala Thr Arg Ile Glu His Trp Asn Val
    290                 295                 300
Ala Gln Asn Ala Gly Arg Gly Val Gly Arg Ala Ile Val His Ala Leu
305                 310                 315                 320
```

```
Asn Thr Gly Ser Leu Gln Ser Leu Arg Pro Lys Ala Phe Ile Pro Ile
                325                 330                 335
Phe Trp Ser Ala Leu Gly Ala Gln Leu Arg Tyr Cys Gly Asn Ala Pro
            340                 345                 350
Thr Gly Trp Asp Ala Leu Val Leu Lys Gly Glu Pro Asp Asn Ala Lys
        355                 360                 365
Phe Ala Ala Tyr Tyr Cys Lys Gly Glu Thr Val Val Ala Val Ala Thr
    370                 375                 380
Met Gly Met Asp Pro Ile Met Ser Lys Cys Ala Glu Leu Met Arg Arg
385                 390                 395                 400
Gly Asn Met Pro Ser Lys Ser Gln Ile Glu Gly Gly Val Asp Val Leu
                405                 410                 415
Ala Val Asp Val Pro Gln Glu Val Met Met
            420                 425
```

<210> 25472
<211> 137
<212> PRT
<213> A.fumigatus

```
<400> 25472
Tyr Cys Gly Ser Glu Val Ser Thr Gly Asp Pro Cys Gln Gln Ser His
1               5                   10                  15
Ala Ser Trp Met Leu Ile Asn Ala Leu Cys Ser Val Ala Thr Gly Tyr
            20                  25                  30
Gly Gln Pro Pro Gly Thr Ile Tyr Asp Trp Ala Leu Glu Pro Pro Ser
        35                  40                  45
Leu Arg Asp Ala Asp Tyr Asn Pro Ser Asp Asp Leu Arg Ile Arg Leu
    50                  55                  60
Arg Ile Glu Lys Phe Cys Asp Arg Val Thr Lys Ala Leu Tyr Ser Gly
65                  70                  75                  80
Lys Pro Asp Pro Ala Glu Phe Ile Ser Ser Glu Lys Leu Leu Ile Val
                85                  90                  95
Gln Leu Leu Glu Ser Glu Leu Arg Glu Met Glu Val Asp Phe Gly Arg
            100                 105                 110
Asp Ile Ser Ser Met Asn Ile Trp Thr Ala Val Val Val Glu Pro Leu
        115                 120                 125
Leu Asn Cys His Leu Gln Ile Ser Ile
    130                 135
```

<210> 25473
<211> 188
<212> PRT
<213> A.fumigatus

```
<400> 25473
Ala Ala Thr Lys Leu Ser Ser Ser Asp Ile Asn Met Ile His Leu Arg
1               5                   10                  15
Ala Ala Glu Leu His Leu Arg Tyr Phe Val Phe Leu Gly Ser Asn Pro
            20                  25                  30
Arg Gly Glu Asp Leu Thr Lys Leu Phe Ile Ala Thr Thr Ser Phe Leu
        35                  40                  45
Gly Arg Val Leu Asp Leu Glu Thr Ser Pro Gly Glu Leu Ile Gly His
    50                  55                  60
Ala Thr Asn Tyr Ile Leu Gln Met Ile Val Ser Ala Ala Phe Ala Leu
65                  70                  75                  80
```

```
Met Lys Leu Leu Lys Ser Asp Phe Ser Arg His Ile Asp Phe Asp His
                85                  90                  95
Gly Lys Leu Leu Phe Asn Gly Ala Ile Ser Ala Ile Arg Arg Ile Ser
            100                 105                 110
Val Met Asp His Asp Arg Pro Val Arg Leu Ala Asp Ile Leu Ala Gln
        115                 120                 125
Met Trp Asn Ala Asn Glu Ala Ala His Ser Pro Gly Asp Asn Val Leu
    130                 135                 140
Glu Leu Lys Val Arg Cys Arg Met Ser Met Ser His Val Tyr Asp Thr
145                 150                 155                 160
Val Trp Arg Trp Arg Gln Arg Phe Arg Pro Met Arg Ser Ile Glu Asp
                165                 170                 175
Ser His Ile Arg Pro Ala Gly Trp Lys Ile Asn Ala
            180                 185
```

<210> 25474
<211> 269
<212> PRT
<213> A.fumigatus

<400> 25474

```
Val Val Val His Glu Ser Gln Ser Glu Asn Met Asn Phe Gln Ala Lys
1               5                   10                  15
Asn Phe Ser Tyr Met Thr Lys Ala Phe Gly Asp Phe Leu Asp Glu Val
            20                  25                  30
His Ala Gly Gly Arg Gln Tyr Leu Arg Ser Ile Ser Ala Glu Leu Pro
        35                  40                  45
Ser Lys Leu Pro Ala Asn Leu Ala Ala Asp Phe Pro Gly Leu Lys Asp
    50                  55                  60
Asp Phe Lys Leu Pro Gln Ala Leu Ser Leu Val Thr Glu Asn Ala His
65                  70                  75                  80
Ser Ser Pro Leu Arg Ile Ser Gly Pro Val Thr Met Trp Leu His Tyr
                85                  90                  95
Asp Val Ser Ser Asn Thr Lys Gln Glu Gly Trp Lys Leu Arg Val Ala
            100                 105                 110
Asp Arg Tyr Ala Gln Val Met Ala Asn Val Leu Cys Gln Ile Arg Gly
        115                 120                 125
Lys Arg Arg Leu Val Leu Phe Pro Pro Ala Asp Val Gln Tyr Leu Gln
    130                 135                 140
Val Pro Pro Gly Ala Ser Ser Ser Thr Ile Asp Ile Phe Gln Asn Ile
145                 150                 155                 160
Lys Asp Gly Ser Ile Val Ser Ile Pro His Thr Ser Pro Gln Glu Ala
                165                 170                 175
Val Leu His Ser Gly Asp Ile Leu Phe Ile Pro Pro Met Trp Leu His
            180                 185                 190
Thr Ala Ser Pro Thr Gly Gly Val Ser Val Ala Val Asn Val Phe Phe
        195                 200                 205
Arg Ser Leu Pro Lys Gly Tyr Ala Ala Gly Arg Asp Val Tyr Gly Asn
    210                 215                 220
Arg Asp Leu Gln Ala Tyr Glu Lys Ala Arg Ile Asp Ile Gln Lys Met
225                 230                 235                 240
Val Arg Ser Phe Asp Gly Leu Pro Ser Asp Ile Ser Arg Phe Tyr Leu
                245                 250                 255
Leu Arg Leu Ala Gln Glu Leu Lys Asp Asn Ala Gly Val
            260                 265
```

<210> 25475
<211> 98
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3),(24),(91)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25475
Glu Ala Xaa Cys Ala Thr Ser Gln Tyr Gln Asn Leu Val Trp Val Tyr
1 5 10 15
Arg Thr Gly His Met Ala Asp Xaa Ala Arg Ser Ser Thr Phe Ala Tyr
20 25 30
Ala Thr Glu Ser Tyr Arg Arg Gln Lys Ser Val Ala Pro Gly Arg Leu
35 40 45
Gly Phe Asp Val Ile Glu Glu Leu Ser Tyr Ile Gln Ala Gln Tyr Phe
50 55 60
Thr Phe Val Trp Asp His Leu Ser Arg Asn Asp Ser Asn Asn Tyr Asp
65 70 75 80
Gln Ala Pro Arg Lys Ser Cys Asp Trp Gly Xaa Lys Ile Val Glu Val
85 90 95
Pro Thr

<210> 25476
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25476
Thr Leu Ala Arg Cys Phe Arg Pro Arg Gly Glu Asp Asn Gln Val Lys
1 5 10 15
Ser Tyr Ala Asn Ser Gln Val Ser Leu Thr Lys Lys Leu Val Ser Gln
20 25 30
Ile Ser Ser Ile Pro Thr Thr Val Gln Trp Ser Tyr Asp Asn Thr Asn
35 40 45
Thr Arg Ala Asp Val Ala Tyr Asp Leu Phe Thr Ala Ala Asp Pro Asn
50 55 60
His Val Thr Tyr Ser Gly Asp Tyr Glu Leu Met Ile Trp Tyr Glu Ile
65 70 75 80
Ala Leu Phe Met Ser Asp Trp Met Ala Phe Ala Asp Trp His Arg Leu
85 90 95
Ala Arg Tyr Gly Asn Val Gln Pro Ile Gly Ser Gln Ile Ala Ser Val
100 105 110
Asn Ile Gly Gly His Asn Trp Glu Leu Trp Tyr Gly Gly Ser Thr Gln
115 120 125
Lys Thr Tyr Ser Phe Val Ser Ala Thr Pro Ile Thr Ser Phe Ser Gly
130 135 140
Asn Val Met Asp Phe Trp Asn Tyr Leu Thr Arg Asn His Gly Tyr Pro
145 150 155 160
Ala Ser Ser Gln Tyr Leu Ile Ser Thr Ser Ala Thr Ser Pro Cys Ser
165 170 175
Ser Ala Thr Asp
180

<210> 25477
<211> 440
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (198)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25477

```
Lys Thr Leu Leu Val Glu Ala Pro Asn Gly His Gly Ser Leu Tyr Lys
1               5                  10                  15
Glu Val Arg Phe Ser Pro Thr Ala Thr Pro Ile Arg Arg Ala Gln Ser
            20                  25                  30
Gly Ser Thr Ser Asn Pro Ala Ser Thr Phe Asp His Arg Arg Val Leu
        35                  40                  45
Gly Lys Ala Glu Ser Asp Arg Phe Ser Tyr Ser Ala Leu Ser Thr Asp
    50                  55                  60
Tyr Leu Glu Gln Ala Arg Thr Leu Leu His Arg Gln Arg Ala Ser Phe
65                  70                  75                  80
Glu Asn Glu Arg Ala Leu Phe Ala Glu Glu Arg Gln Leu Trp Glu Lys
                85                  90                  95
Glu Arg Glu Leu Leu Lys Leu Arg Ile Ser Glu Leu Glu Ala Leu Leu
            100                 105                 110
Lys Ser Lys Asp Thr Leu Asn Asn Asn His Ser Thr Pro Asp Thr Leu
        115                 120                 125
Val Lys Phe Ser Leu His Pro Phe Gly Gly Pro Leu Ser Pro Asn Leu
    130                 135                 140
Ser Asn Glu Arg His Arg Asn His Asp Tyr Ile Ser Ala Gln Val Trp
145                 150                 155                 160
Glu Gly Pro Ser Pro Thr Ala Arg Pro Thr Arg Val Phe His Ser Val
                165                 170                 175
Glu Lys Thr Asp Gly Gln Asp His Leu Ala Ser Ile Thr Glu Gln Gly
            180                 185                 190
Ala His Met Pro Leu Xaa Ala Ser Ser Leu Asp Ala Ala Tyr Pro Pro
        195                 200                 205
Lys Leu Arg Ala Ala Glu Leu Ser Ser Cys Met Ser Ile Pro Phe Pro
    210                 215                 220
Ile Glu Lys Leu Asp Ser Lys Leu Asp Gly Ile Thr Leu Lys Ser Ser
225                 230                 235                 240
Ala Leu Pro Pro Asp Val Val Ala Arg Val Met Thr Pro Pro Ser Leu
                245                 250                 255
Ser Pro Met Asp Val Ser Pro Glu Ser Pro Asp Arg Ser Lys Leu Ser
            260                 265                 270
Ser Glu Arg Lys Asn Ser Leu Lys Leu Lys Leu Ser Glu Leu Gly Pro
        275                 280                 285
Pro Asp Val Asn Leu Val Arg Asp Ala Gly His Thr Pro Met Val Leu
    290                 295                 300
Ile Asp Ala Asp Ala Asp Thr Glu Gln Ala Ser Val Asn Gly Asp Ala
305                 310                 315                 320
Ile Pro Gln Val Gln Gly Lys Glu Asp Glu Pro Phe Ala Pro Arg Ala
                325                 330                 335
Ala Met Val Gly Gln Pro Ala Glu Asn Ser Asp Ser Tyr Phe Pro Asp
            340                 345                 350
```

```
Leu Pro Asp Asp Pro Ala Leu Lys Gly Pro Leu Ser Leu Leu Asn Glu
        355                 360                 365
Glu Glu His Asp Ser Glu Phe Leu Gln Glu Leu Asp Leu Lys Leu Leu
    370                 375                 380
Asp Gln Ala Arg Arg Ala Ile Gly Arg Ser Ser Asp Ala Asp Pro Asp
385                 390                 395                 400
Asp Glu Lys Ile Ala Asp Ala Asp Pro Thr Glu Ser Val Pro Glu Leu
                405                 410                 415
Lys Phe Lys Asn Thr Thr Asn Phe Gly Thr Ala Phe Gly Gly Leu Asn
            420                 425                 430
His Ala Ala Gly Arg Lys Asp Val
        435                 440
```

<210> 25478
<211> 124
<212> PRT
<213> A.fumigatus

<400> 25478

```
Ile Ala Ser Asn Leu Tyr Gly Gln Leu Lys Val Asn Ala Ala Pro Ile
1               5                   10                  15
Leu Leu Leu Tyr Ser Leu Phe Met Arg Leu Ile Arg Leu Leu Leu Ser
            20                  25                  30
Val Glu Leu Glu Glu Ser Arg Phe His Thr Leu Met Met Pro Thr Thr
        35                  40                  45
Lys Ser Ile Leu Gly Leu Ser Leu Ala Val Ala Ser Lys Ala Tyr Ala
    50                  55                  60
Ala Thr Thr Leu Phe Asn Gly Leu Gln Ser Ala Ile Phe Pro Thr Thr
65                  70                  75                  80
Thr Ser Ala Glu Cys Leu Ala Ser Phe Asn Thr Ser Leu Gln Cys Asp
                85                  90                  95
Pro Leu Val Ser Arg Leu Tyr Met Gln Thr Asp Trp Val Gly Trp Asn
            100                 105                 110
Ala Thr Asn Leu Thr Ala Phe Val Ser Pro Asp Asn
        115                 120
```

<210> 25479
<211> 235
<212> PRT
<213> A.fumigatus

<400> 25479

```
Lys Glu Gln Lys Lys Glu Tyr Ser Leu Thr Lys Leu Cys Cys Arg Glu
1               5                   10                  15
Leu Gly Leu Leu Ala Thr Gln Pro Ile Leu Ala Leu Leu Thr Leu Tyr
            20                  25                  30
Gln Ser Phe Val Tyr Gly Val Met Phe Leu Phe Tyr Gln Met Tyr Pro
        35                  40                  45
Val Ala Phe Gly Asp Asp Arg Asn Trp Thr Thr Ser Leu Lys Tyr Leu
    50                  55                  60
Pro Leu Leu Ala Ile Ile Thr Gly Thr Phe Val Gly Ala Leu Gly Ile
65                  70                  75                  80
Val Leu His Asn His Leu Tyr Phe Arg His His Cys His Asn Pro Asp
                85                  90                  95
Gly Thr Tyr Ile Pro Glu Ser Arg Leu Pro Pro Met Ile Val Gly Cys
            100                 105                 110
```

```
Val Met Val Pro Ala Gly Met Phe Trp Phe Ala Trp Thr Ala Ser Pro
        115                 120                 125
Asp Asn Val Ser Trp Ala Ser Pro Ile Cys Ala Ser Phe Met Thr Gly
    130                 135                 140
Cys Gly Met Tyr Leu Leu Phe Ile Gln Gly Trp Asn Tyr Ile Ile Asp
145                 150                 155                 160
Cys Tyr Thr Ser Met Ala Asn Ser Ala Met Gly Ile Asn Gly Ser Met
                165                 170                 175
Arg Ser Val Phe Gly Ala Val Phe Pro Leu Phe Ala Asn Gln Met Val
            180                 185                 190
Gly Ala Leu Gly Val Ala Lys Thr Thr Thr Val Leu Ala Ala Val Ser
        195                 200                 205
Val Met Leu Val Pro Val Pro Val Cys Phe Trp His Trp Gly Ser Leu
    210                 215                 220
His His Gly Ala Gly Arg Ile Arg Gly Gly Ala
225                 230                 235

<210> 25480
<211> 199
<212> PRT
<213> A.fumigatus

<400> 25480
Gly Pro Leu Ser Glu Arg Phe Gly Arg Lys Trp Pro Met Leu Ile Gly
1               5                   10                  15
Ile Thr Ala Ser Ser Leu Phe Asp Val Met Pro Ala Leu Gly Thr Asn
            20                  25                  30
Val Ala Thr Val Leu Ile Gly Arg Ile Phe Gly Gly Leu Phe Gly Val
        35                  40                  45
Ala Pro Val Ala Ile Phe Gly Gly Val Leu Ser Asp Cys Trp Pro Leu
    50                  55                  60
Ala Gln Arg Gly Ile Ala Met Ala Leu Ala Val Ser Leu Val Phe Ser
65                  70                  75                  80
Gly Pro Thr Trp Gly Pro Val Cys Gly Gly Phe Ile Met Gly Ser Pro
                85                  90                  95
Ser Leu Gly Trp Arg Trp Thr Met Trp Val Val Val Ile Ile Gly Leu
            100                 105                 110
Gly Phe Thr Leu Leu Cys Val Phe Leu Tyr Pro Glu Thr Tyr Pro Pro
        115                 120                 125
Val Ile Leu Arg Ala Lys Leu Gln Ala Leu Arg Arg Lys Asn Gly Asn
    130                 135                 140
Leu Asn Ile Arg Thr Ala Leu Asp Lys Gly Gly Leu Ser Ile Gln Asn
145                 150                 155                 160
Ile Met Ser Val Tyr Leu Val Arg Pro Phe Cys Glu Val Ser Tyr Phe
                165                 170                 175
Pro Ile Phe Lys Asp Phe Thr Glu His Arg Cys Asp Ser Leu Glu Lys
            180                 185                 190
Asn Lys Arg Lys Ser Ile His
        195

<210> 25481
<211> 151
<212> PRT
<213> A.fumigatus

<400> 25481
```

```
Ile Glu Pro Ala Ala Gly Ser Ser Gln Pro Arg Cys Glu Asp Asp Arg
1               5                  10                  15
Gln His Arg Lys Tyr Phe Ser Thr Gly Ala Ser Ala Glu Pro Asp Asn
            20                  25                  30
Leu Arg Arg Asp Lys Gly Asp Gly Arg Leu Leu Tyr Gln Val Leu Val
        35                  40                  45
Ser Gly Val Thr Ile His Met Trp Tyr Pro Val Lys Ile Leu Ser Ile
    50                  55                  60
Ile Tyr Arg Ala Lys Glu Leu Pro Pro Lys Tyr Gly Cys Thr Val Asn
65                  70                  75                  80
Ala Val Ser Pro Gly Pro Thr Met Thr Glu Gly Phe Ala Ala Ala Gly
                85                  90                  95
Lys Glu Gln Met Lys Ile Leu Gln Pro Ile Ile Asp Gln Thr Pro Val
            100                 105                 110
Gly Pro Arg Met Ala Gln Pro Asp Glu Ile Ala Tyr Ala Val Ala Phe
        115                 120                 125
Leu Cys Glu Glu Arg Ala Arg Trp Ile Asn Gly Ala His Leu Ile Ala
    130                 135                 140
Ser Gly Gly Leu Phe Ile Asp
145                 150
```

<210> 25482
<211> 170
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (111),(133)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25482

```
Leu His Asp Cys Leu Lys Asp Gly Val Asn Phe Ile Asp Ile Thr Glu
1               5                  10                  15
Glu His Asn Thr Gly Phe Tyr Pro Thr Leu His Ser Ala Ser Tyr Val
            20                  25                  30
Lys Tyr Pro Pro Lys Met Gln Tyr Ala Glu Glu Val Ala Ala Leu Asn
        35                  40                  45
Lys Asn Leu Ser Lys Glu Asn Met Lys Ala Asn Leu Glu Arg Phe Thr
    50                  55                  60
Ser Phe His Thr Arg Tyr Tyr Lys Ser Gln Thr Gly Ile Arg Ser Ala
65                  70                  75                  80
Thr Trp Leu Phe Asp Gln Val Gln Arg Val Val Ser Glu Ser Gly Ala
                85                  90                  95
Ala Glu Tyr Gly Ala Thr Val Glu Arg Phe Ser His Pro Trp Xaa Gln
            100                 105                 110
Phe Ser Ile Ile Ala Arg Ile Pro Gly Arg Thr Asn Lys Thr Val Val
        115                 120                 125
Leu Gly Ala His Xaa Asp Ser Ile Asn Leu Phe Leu Pro Ser Phe Leu
    130                 135                 140
Ala Ala Pro Gly Ala Asp Asp His Gly Arg Trp Thr Val Thr Ile Leu
145                 150                 155                 160
Glu Ala Leu Arg Gly Leu Cys Asn Gln Thr
                165                 170
```

<210> 25483

<211> 65
<212> PRT
<213> A.fumigatus

<400> 25483
Ser Arg Gln Thr Arg Ser Leu His Asp Phe Glu Gln Pro Met Leu Ser
1 5 10 15
Asn Ala Leu Gln Gly Gly Pro Ser Thr Phe Cys Gly Gly Phe His Ser
20 25 30
Lys Phe Ser Ser Ala Gly Gln Thr Glu Asp Val Thr Gly Gly Cys Ser
35 40 45
Cys Arg Lys Cys Thr Ile Ile Gln Glu Ala Pro Ile Gln Leu Lys Glu
50 55 60
Val
65

<210> 25484
<211> 368
<212> PRT
<213> A.fumigatus

<400> 25484
Ile Ile Ser Ala Phe Ser Thr His Pro Pro Ser Lys Ile Gly Ile Leu
1 5 10 15
Ser Ile Met Glu Ser Lys Glu Val Asp Ile Thr Leu Glu Lys Gln Gln
20 25 30
Asp Tyr Gln Glu Lys Leu Trp Lys Thr Ala Gln Ser Glu Trp Lys Ser
35 40 45
Asp Ile Leu Pro Arg Ala Asn His Leu Ala His Ala Arg Ala Ser Leu
50 55 60
Pro Lys Ser Leu Ser Tyr Ala Gly Met Gly Tyr Glu Ala Ala Lys Gln
65 70 75 80
His Ile Leu Asp Asp Ile Ile Pro Gly Leu Asn Gly Ser Ser Ile Ser
85 90 95
Pro Asn Tyr Tyr Gly Phe Val Thr Gly Gly Val Thr Pro Ala Ala Leu
100 105 110
Phe Ala Asp Asn Val Val Ser Ala Tyr Asp Gln Asn Val Gln Val His
115 120 125
Leu Pro Glu His Ser Val Ala Thr Asp Val Glu Tyr Ser Ala Leu Gly
130 135 140
Leu Leu Leu Asp Leu Leu Gln Leu Asp Arg Ser Phe Leu Tyr Asn Gly
145 150 155 160
Thr Phe Thr Thr Gly Ala Thr Ala Ser Asn Ile Leu Gly Leu Ala Cys
165 170 175
Gly Arg Glu Phe Ala Val Glu Ala Ala Ala Lys Ser Arg Gly Ala Ala
180 185 190
Leu Gln Ser Val Gly Gln His Gly Leu Phe Glu Val Met Gln Ala Ser
195 200 205
Gly Leu Ser Gly Leu Gln Val Leu Ser Thr Leu Pro His Ser Ser Leu
210 215 220
Val Lys Ala Ala Gly Ile Leu Gly Ile Gly Arg Ala Asn Val Lys Asn
225 230 235 240
Ile Ser Arg Asp Asp Asn Pro Leu Leu Phe Asp Leu Ala Arg Leu Glu
245 250 255
Gly Glu Leu Ala Arg Thr Glu Lys Ala Thr Ile Val Ala Val Ser Cys
260 265 270

```
Gly Glu Val Asn Thr Gly His Phe Ala Thr Ala Gly Leu Glu Glu Met
        275                 280                 285
Leu Glu Ile Arg Arg Leu Cys Asp Glu Tyr Gly Ala Trp Leu His Val
    290                 295                 300
Asp Gly Ala Phe Gly Ile Phe Gly Arg Val Leu Asp Asp Ser Pro Glu
305                 310                 315                 320
Phe Ser Ser Ile Lys Lys Ala Cys Gln Gly Ile Glu Leu Ala Asp Ser
                325                 330                 335
Ile Thr Gly Asp Gly His Lys Leu Leu Asn Val Pro Tyr Asp Cys Gly
            340                 345                 350
Ser Phe Ser Val Val Ser Leu His His Lys Gly Ser Lys Asp Pro Arg
        355                 360                 365

<210> 25485
<211> 108
<212> PRT
<213> A.fumigatus

<400> 25485
Pro Glu Thr Ile Arg Asn Ser Phe Ala Gly Ala Gly Leu Val Pro Phe
1               5                   10                  15
Asn Pro Asp Arg Val Leu Ser Gln Leu Asp Ile Gln Leu Lys Thr Arg
            20                  25                  30
Thr Pro Pro Gly Ser Arg Ser Thr Asn Ser Ala Pro Lys Thr Pro Tyr
        35                  40                  45
Thr Thr Arg Gln Leu Glu Lys Gln Ala Ser Thr Ala Lys Arg Leu Leu
    50                  55                  60
Lys Glu His Thr Tyr Ser Pro Leu Pro Leu Leu Glu Ala Arg Leu Asp
65                  70                  75                  80
Lys Ile Ile Lys Gly His Lys Ile Ala Leu Asn Glu Leu Val Leu Thr
                85                  90                  95
Arg Asn Glu Leu His Asn His His Ala Asn Asn Lys
            100                 105

<210> 25486
<211> 101
<212> PRT
<213> A.fumigatus

<400> 25486
Leu Ser Asn Asp Asp Gly Leu Ala Thr Trp Phe Ala Arg Leu Ser Pro
1               5                   10                  15
Thr Ser Thr Glu Tyr Val Ile Tyr Glu Met Glu Met Leu Ala Met Ile
            20                  25                  30
Gln Pro Val Leu Ser Phe Gln Ala Val Cys Ser Ile Ser Ser Ile Met
        35                  40                  45
Lys Gln Gly Tyr Thr Phe Gly His Ser Gln Asn Glu Met Thr Arg Phe
    50                  55                  60
Ile Arg Thr Gln Thr Val Val Asn Ser Asn Arg Ser Ile Leu Leu Cys
65                  70                  75                  80
Ser Thr Val Asn Asp Asp Leu Gly Asp Met Ser Tyr Gln Val Phe Thr
                85                  90                  95
Arg Ser Ser Gly Ala
            100

<210> 25487
```

<211> 77
<212> PRT
<213> A.fumigatus

<400> 25487
Phe Thr Thr Lys Leu Val Leu Thr Val Leu Tyr Cys Ile Asp Val Leu
1 5 10 15
Arg Met Val Leu Gly Asn Thr Lys Trp Ala Leu Asp Phe Ser Phe Tyr
20 25 30
Val Leu Asn Glu Leu Phe Asp Leu Ala Asp Asp Phe Glu Ser Leu Ser
35 40 45
Gly Asp Gln Glu Ala Phe Thr Gln Lys Cys Ser Trp Gly Leu Ala Ser
50 55 60
Thr Tyr Leu Val Asn His Ala Asn Pro His Phe Arg Gln
65 70 75

<210> 25488
<211> 113
<212> PRT
<213> A.fumigatus

<400> 25488
His Pro Val Ser Ser Pro Pro Ser Ile Val Ala Met Ser Leu Ser Ala
1 5 10 15
Asn Lys Cys Thr Glu Ala Gln Ala Thr Phe Ile Asn Glu Ala Tyr Arg
20 25 30
Ala Leu Pro Ile Asn Cys Asn Phe Thr Val Glu Gln Asp Lys Leu Met
35 40 45
Asn His Pro Tyr Ile Pro Arg Cys Leu Ser Ile Gln Ala Ala Leu Gly
50 55 60
Phe Lys Asn Lys Tyr Thr Pro Arg Ser Phe Ala Ser Ser Ile Pro Trp
65 70 75 80
Ala Val Leu Gln Leu Arg His Ala Ser Val Leu Tyr Ala Phe Phe Phe
85 90 95
Gln Tyr Asn Lys Gly Gly Thr Thr Glu Pro His Asp Pro Gly Glu Ile
100 105 110
Thr

<210> 25489
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25489
Leu Arg Arg Ala Phe Thr Thr His Gln Ser Pro Gln Val Ser Asp Ile
1 5 10 15
Phe Gly Arg Ile Ala Ser Thr Thr Leu Thr Tyr Gly Phe Ala Ala Gly
20 25 30
Leu His Ile Ser Phe Ser Pro Asn Ala Cys Ala Ala Val Met Leu Asp
35 40 45
Gly Glu Gly Gln Thr His Leu Arg Leu Thr Glu His Ser Tyr Gly Ala
50 55 60
Glu Gly Gly Leu His Asp Glu Ser Thr Cys Leu Asp Cys Lys Val Met
65 70 75 80
Ser Arg Arg Ile Phe

85

<210> 25490
<211> 116
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (80),(95),(97),(98),(99),(105),(106)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25490
Pro Pro Phe Pro Ala Val Lys Ser Thr Ser Ser Leu Pro Leu Ile Ile
1 5 10 15
Leu Leu Ser Ser Met Ser Arg Ala Phe Leu Arg Phe Ile Cys Arg Gly
20 25 30
Leu Arg Arg Ile Tyr Ala Gly Tyr Ala Thr Ala Ala Pro Leu Ser Gly
35 40 45
Asp Ala Arg Val Tyr Tyr Ala Glu Asn Tyr Gln Thr Leu Glu Ser Ala
50 55 60
Pro Ile Arg Ile Asp Ala Tyr Glu Lys Phe Leu Ala Gly Val Asp Xaa
65 70 75 80
Ala Val Arg His Ala Phe Thr Arg Cys Arg Val Arg Arg Asn Xaa Asn
85 90 95
Xaa Xaa Xaa Arg Glu Lys Arg Thr Xaa Xaa Ser Thr Pro Arg Val Ala
100 105 110
Pro Arg Ala Trp
115

<210> 25491
<211> 226
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (129)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25491
Lys Thr Thr Gln Gly Pro Ile Ala Met Ser Glu Glu Ala Pro Lys His
1 5 10 15
Glu Ser Pro Ser Val Ile Ser Pro Ile Glu Asn Glu Glu Lys Gly Leu
20 25 30
Ala Pro Lys Pro Leu Glu Arg Val Pro Pro Asn Gly Gly Ala Lys Ala
35 40 45
Trp Ala Cys Val Ala Gly Ser Phe Leu Leu Gln Phe Cys Ser Phe Gly
50 55 60
Tyr Val Asn Ala Tyr Val Ser Ile Leu Phe Ser Ser Leu Phe Val Ser
65 70 75 80
Phe Glu Lys Gln Pro Thr Asp Leu Pro Glu Asn Arg Cys Gly Ile Phe
85 90 95
Gln Leu Tyr Tyr Gln Glu Thr Met Leu Lys Asp Gln Thr Ser Ser Ala
100 105 110
Leu Ala Trp Ile Thr Thr Leu Gln Ile Phe Leu Leu Phe Met Phe Gly

```
        115                 120                 125
Xaa Ala Val Gly Lys Met Ile Asp Val Tyr Gly Cys Arg Arg Thr Leu
    130                 135                 140
Pro Pro Phe Ser Ile Gly Ala Val Phe Ser Val Cys Met Leu Ser Leu
145                 150                 155                 160
Cys Thr Lys Tyr Trp Gln Val Met Leu Ala Gln Gly Val Ala Phe Gly
                165                 170                 175
Leu Ala Ala Ala Gly Leu Ser Leu Pro Ala Met Ala Thr Ala Thr Gln
            180                 185                 190
Trp Phe Ser Thr Lys Lys Gly Leu Ala Val Gly Ile Val Ser Ala Gly
        195                 200                 205
Ser Ser Leu Gly Lys Asn Gly Glu Pro Leu Gln Pro Asn Ser His Leu
    210                 215                 220
Asp Gly
225
```

<210> 25492
<211> 99
<212> PRT
<213> A.fumigatus

<400> 25492

```
Ser Thr Pro Pro Cys Thr Ser Ser Ser Leu Val Ser Ser Leu Ala Ser
1               5                   10                  15
Pro Ser His Ser Gly Leu Lys Thr Ser Ser Val Ser Ser Val Pro Asn
            20                  25                  30
Ser Ser Ser Ala Thr Lys Ser Thr Gly His Leu Ala Ser Thr Ala Thr
        35                  40                  45
Tyr Gln Ile Ser Thr Tyr Asp Ser Thr Leu Pro Ser Phe Ser Ala Ser
    50                  55                  60
Ile Ala His Val Ala Pro Thr Val Ala Ala Ala Asn Asp Leu Leu Glu
65                  70                  75                  80
Ala Pro Leu Gly Met Gly Val Phe Cys Ala Leu Leu Gly Gly Leu Ile
                85                  90                  95
Ala Ile Phe
```

<210> 25493
<211> 165
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (57),(64),(109),(118)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25493

```
Gln His Arg Ile Ser Glu Asn Gly Gln Ser Gly Ser Asn Lys Pro Gln
1               5                   10                  15
Glu Ala Thr Gly Tyr Ala Asp Glu Phe Ser Phe His Phe His Ala Val
            20                  25                  30
Thr Lys Ala Asn Leu Lys Gln Ser Phe Ser Ser Asn Ile Arg Thr Ser
        35                  40                  45
Arg Ile His Ser His Arg Trp Arg Xaa Lys Leu Val Ile Ser Ser Xaa
    50                  55                  60
```

```
Lys Gln Arg Ser Ile Ser Thr Phe Cys Phe His Ser Lys Leu Leu Ala
65                  70                  75                  80
Ala Leu Thr Tyr Thr Arg Leu Val Ile Glu Thr Leu Glu Pro Leu Pro
                85                  90                  95
Glu Asp Arg Lys Cys Phe Arg Met Gly Lys Arg Val Xaa Val Glu Arg
            100                 105                 110
Thr Val Lys Asp Val Xaa Ser Ala Leu Lys Thr Asn Ser Asp Gly Leu
        115                 120                 125
Lys Gln Val Leu Asp Glu Thr Val Lys Gln Tyr Gln Ser Lys Gln Ser
    130                 135                 140
Glu Leu Asp Asp Trp Lys Val Ser Leu Ser Met Pro Gly Val His Val
145                 150                 155                 160
Asn Ser Ile Asp Asp
                165
```

<210> 25494
<211> 174
<212> PRT
<213> A.fumigatus

<400> 25494

```
Trp Thr Glu Thr Gly Ser Phe Gln Pro Arg Gly Glu Asp Tyr Gly Arg
1               5                   10                  15
Gly Gly Pro Tyr Gly Gly Pro Arg Gly Pro Pro Pro Asn Gly Arg Gly
            20                  25                  30
Gly Pro Met Gly Pro Met Arg Gly Ala Pro Ser Gly Met Met Gly Arg
        35                  40                  45
Gly Gln Arg Gly Pro Asn Pro Ala Gly Tyr Gly Tyr Gly Pro Val Ser
    50                  55                  60
Thr Gly Leu Asn Pro Gly Tyr Asp Ala Tyr Asn Tyr Gly Pro Gly Pro
65                  70                  75                  80
Arg Pro Ser Gln Arg Phe Gly Glu Asn Gly Ile Asp Tyr His Gly Pro
                85                  90                  95
Ser Pro Val Glu Thr Ala Arg Arg Pro Ser Pro Gly Pro Ile Gly Met
            100                 105                 110
Ala Val Ser Pro Pro Glu Thr Ala Pro Ile Gly Gln Ala Ile Glu Met
        115                 120                 125
Thr Ser Gln Pro Arg His Thr Asp Ser Ala Val Glu Leu Gly Pro Asn
    130                 135                 140
Ala Val Pro Glu Glu Glu Gln Pro His Ala Val Ser Asn Asp Gly His
145                 150                 155                 160
Pro Glu Pro Val Ser Pro Ser Ser Leu Tyr Ser Arg Ser Ala
                165                 170
```

<210> 25495
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25495

```
Arg Arg Gly Arg Asn Arg Ser Pro Gln Asp Leu Asp Pro Ala Ala Arg
1               5                   10                  15
Val Pro Ser Tyr Leu Lys Gly Leu Leu Ala Trp Gly Pro Trp Ala Arg
            20                  25                  30
Pro Tyr His Trp Ala Glu Val Leu Trp Gly Leu Arg Arg Asp Leu Pro
        35                  40                  45
```

```
Asp His Ser Leu His His Gly Ala Gly Arg Ile Gln Ser Gln Ser
    50                  55                  60

<210> 25496
<211> 299
<212> PRT
<213> A.fumigatus

<400> 25496
Lys Val Glu Pro Asn Asp Asn Ala Thr Gly Asn Asp Ser Glu Gln Met
1               5                   10                  15
Asn Tyr Leu Asn Ser Leu Trp Ser Lys Trp Met Pro Glu Ala Ser Pro
            20                  25                  30
Arg Ile Ala Val Asp Ser His Pro Arg Leu Ser Gly Ile Gln Asp Thr
        35                  40                  45
Ile Asn Ala Thr Asp Ala His Gly Pro Ala Thr Arg Leu Pro Ala Glu
    50                  55                  60
Phe Tyr Asp Lys Lys Ala Arg Glu Tyr Thr Asn Thr Ile Ala Val Asp
65                  70                  75                  80
Glu Trp Phe Ala Gly Tyr Ala Glu Ser Arg Glu Tyr Arg Lys Leu Gly
                85                  90                  95
Ile Gly Ala Leu Met Gly Asp Val Val Asp Arg Met Val Asn Ala Ala
            100                 105                 110
Ala Asn Gly Gly Trp Arg Ser Glu Arg Ser Ala Ser Gly Ser Ser Thr
        115                 120                 125
Glu Asn Gly Lys Ala Ile Lys Phe Ala Met Ser Gly Cys His Asp Thr
    130                 135                 140
Thr Leu Ala Ala Ile Leu Gly Ser Val Gly Ala Phe Asp Ala Lys Trp
145                 150                 155                 160
Pro Pro Phe Thr Ser Ser Ile Ala Ile Glu Leu Phe Ser Arg Met Glu
                165                 170                 175
Asn Gln Pro Pro Ser Ser Pro Ser Pro Ser Ala Lys Gln Arg Ser Leu
            180                 185                 190
Val Ser Tyr Leu Thr Gly His Asp Ala Val Pro Ser Ser Asn Thr Asp
        195                 200                 205
Arg Thr Pro Leu Ser Ser Leu Pro Asn Ser Thr Arg Gln Ala Leu Gln
    210                 215                 220
Asn His Tyr Val Arg Ile Arg Tyr Asn Asp Val Pro Val Arg Ile Pro
225                 230                 235                 240
Gly Cys Ala Ala Lys Ala Glu Asn His Leu Pro Gly Asp Glu Thr Phe
                245                 250                 255
Cys Thr Leu Asp Ala Phe Lys Gln Ile Val Asp Lys Phe Thr Pro Lys
            260                 265                 270
Asn Trp Arg Glu Glu Cys Val Gln Asn Leu Gly Glu Gly Leu Tyr Gly
        275                 280                 285
Lys Asp Asp Ala Glu Lys Ala Val Ala Gly Phe
    290                 295

<210> 25497
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25497
Arg His Pro Asp Pro Cys Gly Met Lys Gly Arg Leu Ser Ser Gly Ile
1               5                   10                  15
```

```
Phe Gly Val Arg Trp Asn Asp Leu Tyr Ala Pro Gly Ser Arg Met Leu
            20                  25                  30
Ser Ser Val Thr Val Lys Glu Phe Leu Gly Phe Cys Arg Glu Leu Ala
        35                  40                  45
Ser Glu His Val Glu Ala Ile Ile Phe Leu Val Gln Val His Leu Ile
    50                  55                  60
Met Ile
65
```

<210> 25498
<211> 123
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25498

```
Leu Leu Thr Gln Ser Lys Gln Ser Leu Gln Leu Ile Leu Phe Val Lys
1               5                   10                  15
Ser Ser Leu Asn Glu Val Asp Pro His Thr Leu Leu Leu Leu Ser Ile
            20                  25                  30
Ala Ile Val Leu Gln Ser Leu Leu Lys His Asn Thr Pro Leu Asn Arg
        35                  40                  45
Ser Phe Ala Met Phe Phe Ser Lys Leu Leu Phe Ile Xaa Ala Phe Ala
    50                  55                  60
Leu Ala Val Ser Thr Leu Pro Gln Phe Tyr Pro Gly Gly Ser Met Thr
65                  70                  75                  80
Arg His Asp Ala Thr Pro Thr Ser Ser Thr Ser Ile Ser Pro Thr Ser
                85                  90                  95
Thr Phe Ala Ser Asn Ser Ala Arg Pro Ser Ala Thr Thr Asn Arg His
            100                 105                 110
Gly Ser Val His Ile Val Tyr Gln Leu Asp Pro
        115                 120
```

<210> 25499
<211> 312
<212> PRT
<213> A.fumigatus

<400> 25499

```
Pro Gly Val Tyr Pro Ser Lys Pro Ile Leu Asn Cys Val Phe Cys Val
1               5                   10                  15
Ile Gln Cys Ser Tyr Gly Val Asn Phe Pro Arg Ser Leu Gly Asn Asn
            20                  25                  30
Thr Pro Gly Ser Leu Trp Asp Asn Val Ala Asp Arg Thr Gly Gln Asn
        35                  40                  45
Leu Phe Thr Ser Asn Arg Tyr Gly His Leu Lys Arg Gln Ile Tyr Gln
    50                  55                  60
Ser Val Arg Arg Ala Asp Phe Cys Gly Phe Trp Leu Cys Arg Gly Leu
65                  70                  75                  80
Ser Ala Glu Ala Thr His Pro Arg Asp Ala Asp Leu Val Leu Phe His
                85                  90                  95
Cys His Gly Gly Gly Tyr Val Ser Phe His Pro Ser Ala Gly Ala Pro
```

```
            100                 105                 110
Glu His Leu Phe Met Ala Glu Leu Leu Gln Arg His Gly Leu Thr Val
        115                 120                 125
Ala Ile Phe Ser Leu Asp Tyr Thr Leu Ala Pro Ala Ala Thr Phe Pro
    130                 135                 140
Lys Gln Arg Asp Glu Ala Ile Ala Ala Tyr Asp Trp Ile Asn Lys Glu
145                 150                 155                 160
Leu Gly Val Asp Ala Ser Lys Ile Val Val Ile Gly Asp Ser Ala Gly
                165                 170                 175
Gly His Leu Ile Met Ser Leu Leu Thr Gly Leu His Gln Arg Tyr Pro
            180                 185                 190
Arg Ala Asn Asp Gly Arg Ser Ala Asp His His Arg Asp Arg Pro Ala
        195                 200                 205
Gly Ala Ile Leu Val Ser Pro Trp Leu Asn Leu Tyr Thr Ser His Pro
    210                 215                 220
Arg Thr Leu Ala Leu His Trp Glu Glu Arg Leu Phe Lys Arg Ser Leu
225                 230                 235                 240
Asp Lys Cys Cys Glu Gln Val Met Arg Asp Thr Pro Ala Asp Ile Ala
                245                 250                 255
Glu Val Tyr Gly Asn Phe Ala Val Asp Val Ala Ala Arg Gly Ser Trp
            260                 265                 270
Lys Glu Ile Leu Pro Asp Arg Thr Trp Val Ser Ala Gly Ala Glu Ser
        275                 280                 285
Trp Tyr Ser Cys Thr Thr Leu Lys Ile Leu Trp Pro Met His Gly Val
    290                 295                 300
Thr Gly Gln Gln Ser Arg Trp Met
305                 310
```

<210> 25500
<211> 196
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (185)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25500

```
Glu Thr Val Glu Glu Asn Ile Met Ala Ala Leu Val Gln Thr Ile Pro
1               5                   10                  15
Gln Gln Ser Ser Thr Val Ser Val Leu Gln Thr Arg Pro Ser Ser Ser
            20                  25                  30
Ser Gly Ser Phe Ala Pro Ser Pro Gln Pro Ser Gln Gln Gln Asn Ser
        35                  40                  45
Arg Ser Ser Thr Met Ser Trp Asn Ser Tyr Asn Thr Val Ser Gly Ser
    50                  55                  60
Gln Gly Tyr Arg Ala Gly His Gln Val Val Ala Pro Tyr Ala Phe Thr
65                  70                  75                  80
Gly Thr Pro Ser Ile Pro Asn Ala Ser Phe Asn Thr Thr Gln Asn Ser
                85                  90                  95
Gln Ser Trp Ser Pro His Leu Arg Pro Glu Asn Arg Thr Ser Ser Ala
            100                 105                 110
Pro Ser Val Pro Gln Gly Thr Pro Val His Pro His Ala Ile Gly Ser
        115                 120                 125
Asn Pro Arg Phe Ser His His Pro Ala Ala Gly Ser Val Ser Thr Ser
```

```
    130                 135                 140
Ser Ser Asn Ser Ser Val Gln Ser Tyr Arg Ser Lys Asp Asp Ser Ala
145                 150                 155                 160
Ile Pro Ser Arg Gln Ser Arg Ser Asp Pro Pro Leu Arg Pro Leu Ser
                165                 170                 175
Thr Ala Asn Leu Pro Ser Pro Trp Xaa Tyr Thr Ala Gly Met Ala Gly
            180                 185                 190
Asn Ala Val Glu
        195
```

<210> 25501
<211> 406
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25501

```
Thr Cys Ser Pro Phe Ile Thr Val Phe His Phe Glu Thr Leu Pro Thr
1               5                   10                  15
Arg Arg Glu Pro Gly Thr Asn Ser Ser Ile Val Xaa Gly Arg Ser Lys
            20                  25                  30
Gly Asn Arg Leu Ala Thr Leu Trp Asn Leu Leu Asp Thr Gly Ala Ser
        35                  40                  45
Ala Pro Trp Pro Thr Leu Phe Ser Met Ala Ala Glu His Asp Ser Val
    50                  55                  60
Leu Ala Met Lys Val Leu Leu Leu Gln Asp Gly Ala Asp Thr Asn Ala
65                  70                  75                  80
Val Glu His Thr Glu Gly Ile Pro Leu Met Val Thr Ala Val Val Asn
                85                  90                  95
Arg Ser Pro Lys Val Val Arg Phe Leu Leu Thr Arg Asp Gly Val Asp
            100                 105                 110
Pro Asn Val Lys Asn His Asp Gly Gln Thr Pro Leu Ala Tyr Ala Ala
        115                 120                 125
Cys Glu Cys Phe Asn Asp Ile Val Lys Ile Leu Leu Lys Cys Pro Gln
    130                 135                 140
Val Asp Val Asn Cys Thr Asp Asn Ala Gly Cys Thr Pro Leu Arg Leu
145                 150                 155                 160
Ala Ala Gly Arg Ser His Val Phe Val Val Arg Thr Leu Leu Ser Asn
                165                 170                 175
Pro Trp Val Asp Val Ser Val Arg Asp Asn Ile Leu His Met Thr Ala
            180                 185                 190
Leu Ser Ala Ala Val Ala Ala Leu Ala Asn Arg Ile Ala Trp Ser Pro
        195                 200                 205
Glu Lys Val Lys Leu Lys His Arg Arg Thr Ile Gln Ala Leu Leu Glu
    210                 215                 220
His Pro Ala Thr Ser Val Asn Tyr Asp Met Asp Pro Asp Leu Leu Pro
225                 230                 235                 240
Leu Tyr Arg Phe Ser Ala Gln Tyr Gly Tyr Glu Glu Ile Phe Lys Leu
                245                 250                 255
Leu Trp Ser Lys Gly Ala Gly Gln Leu Pro Ala Glu Leu Asp Arg Ser
            260                 265                 270
Gly Ile Leu Phe Phe Val Ala Glu His Gly Gln Ala Gly Ile Met Lys
```

```
        275                 280                 285
Met Leu Phe Ala Asn Gly Phe Glu Pro Glu Ala Gln Thr Asp Thr Gly
    290                 295                 300
Arg Thr Thr Leu Ser Ile Ala Ala Glu His Lys Gln Leu Glu Val Ile
305                 310                 315                 320
Cys Leu Leu Leu Ser Thr Gly Lys Val Asp Val Asn Ser Lys Asp Gln
                325                 330                 335
Ala Gly Arg Thr Pro Leu Trp Trp Ala Met Thr His Gly Trp Arg Lys
            340                 345                 350
Thr Gly Thr Asp Glu Thr Leu Lys Leu Leu Ile Ala His Asp Ala Thr
        355                 360                 365
Ile Pro Thr Ile Glu Arg Arg Lys Trp Leu Gln Lys Ser Leu Cys Asn
    370                 375                 380
Ala Leu Glu Tyr Gly Asn Cys Phe Leu Cys Leu Pro Thr Gly Leu Glu
385                 390                 395                 400
Gly Ser Ala Arg Ala Leu
                405
```

<210> 25502
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25502

```
Ser Cys Trp Lys Leu Gly Gly Arg Phe Met Val Asp Ile Val Leu Tyr
1               5                   10                  15
Leu Leu Asp Asp Ala Asn Ala Val Asn His Gln Ile Tyr His Gln Leu
            20                  25                  30
Gly Glu Ser Gly Lys Leu Leu Ile Leu Glu Cys Leu Val Gly Leu Asp
        35                  40                  45
Val Ser Leu Tyr Met Gly Leu Arg Glu Arg Ala Ser Gly Met Leu Tyr
    50                  55                  60
Ile Ser His Val Val Ala
65                  70
```

<210> 25503
<211> 312
<212> PRT
<213> A.fumigatus

<400> 25503

```
Gln Leu Ile Pro Ser Ile Pro Ala Leu Arg Pro Thr Glu Glu Asn Glu
1               5                   10                  15
Val Lys Ser Pro Asp Val Pro Ser Lys Pro Ala Ile Pro Ser Arg Pro
            20                  25                  30
Gln Lys Leu Ser Gln Gln Thr Pro Ala Val Asp Ala Ser Ser Ala Thr
        35                  40                  45
Ser Pro Thr Glu Lys Arg Gln Pro Pro Ser Ile Pro Asp Arg Pro Lys
    50                  55                  60
Pro Gln Ile Pro Pro Arg Pro Ala Lys Pro Ile Thr Arg Gly Ala Gly
65                  70                  75                  80
Glu Glu Val Pro Ala Lys Glu Lys Pro Ala Val Pro Ile Arg Pro Asn
                85                  90                  95
Gly Ser Lys Ile Ala Ala Leu Arg Ala Gly Phe Leu Ser Asp Leu Asn
            100                 105                 110
Ser Arg Leu Gln Leu Gly Pro Gln Ala Pro Lys Pro Gln Glu Lys Lys
```

```
        115                 120                 125
Glu Glu Glu Ala Pro Ala Glu Lys Ala Pro Leu Ser Asp Ala Arg Lys
    130                 135                 140
Gly Arg Ala Arg Gly Pro Ser Arg Arg Lys Pro Ala Ser Gln Asn Val
145                 150                 155                 160
Ser Thr Arg Leu Pro Thr Ile Pro Glu Ile Arg Ile Ile Glu Thr Trp
                165                 170                 175
Asn Val Trp Gln Val Gly Glu Asp Gly Asn Leu Thr Val Glu Thr Gly
            180                 185                 190
Val Lys Ala Lys Gln Pro Glu Pro Ala Ala Pro Glu Val Ser Thr Ser
        195                 200                 205
Lys Asp Ser Met Ala Pro Ala Leu Ser Lys Asn Val Ala Gly Glu Ser
    210                 215                 220
Thr Asp Pro Ser Pro Met Thr Ala Thr Lys Glu Ser Ala Pro Glu Thr
225                 230                 235                 240
Ala Glu Thr Ile Pro Ser Thr Val Gly Asp Ala Ala Ala Val Ser Ala
                245                 250                 255
Thr Glu Leu Thr Lys Pro Asn Glu Ser Glu Val Gln Gln Lys Ser Ala
            260                 265                 270
Asp Ala Gln Ser Gly Ile Thr Ser Ser Thr Ser Ala Pro Val Asp Asp
        275                 280                 285
Val Ile Glu Ala Leu Ala Ala Thr Ala Asp Gly Lys Arg Ser Ser Glu
    290                 295                 300
Gly Ser Val Pro Pro Glu Glu Gln
305                 310
```

<210> 25504
<211> 344
<212> PRT
<213> A.fumigatus

<400> 25504

```
His Pro Val Val Lys Thr Leu Asp Pro Val Asp Arg Ala Phe Tyr Ala
1               5                   10                  15
Gly Tyr Glu Asp Gly Ser Val Gln Ser Val Asp Phe Tyr Lys Ser Gln
            20                  25                  30
Ser Ile Gln His Thr Leu His Asp Pro Ser Leu His Ser Thr Pro Ser
        35                  40                  45
Gln Pro Ser Ala Glu Asp Arg Trp Leu Ala Pro Ser Ser Asp Phe Gly
    50                  55                  60
Gly Val His Ser Leu Ser Leu Ser Tyr Asp Gly Met Thr Leu Leu Ser
65                  70                  75                  80
Gly His Gln Asn Gly Lys Val Leu Ser Trp Asn Val Ala Arg Arg Lys
                85                  90                  95
Tyr Ala Ser Thr Leu Ala Asp Tyr Thr His Pro Val Thr Asn Ile Ile
            100                 105                 110
Ala Leu Pro Leu Glu Gly Leu Pro Ser Ser Gly Asn Glu Leu Arg Arg
        115                 120                 125
Val Ala His Thr Ile Val Lys Pro Arg Tyr Asp His Ala Leu Ser Glu
    130                 135                 140
Ser Ser Gly Thr Pro Asp Ala Val Pro Ala Asp Tyr Thr Phe Ser Thr
145                 150                 155                 160
His Leu Leu Ala Ser Asp Thr Ala Gln Leu Thr Leu Ser Asp His Gln
                165                 170                 175
Arg Asp Gln Phe Ser Thr Ala Leu Thr His Ala Phe Phe Pro Glu Ser
            180                 185                 190
```

```
Met Met Glu Glu Gly Leu Ala Glu Leu Ala Ala Leu Lys His Ser Gly
        195                 200                 205
Asn Asn Gly Asn His Val Ser Thr Ile Ser Gln Ser Val Val Ser Gln
    210                 215                 220
Gln Ala Ala Ile Val Asp Asp Ser Gln Ile Ala Ser Leu Glu Glu Glu
225                 230                 235                 240
Ile Thr Thr Leu Lys Lys Lys Leu Ala Val Asn Glu Ala Ala Arg Gln
                245                 250                 255
Val Thr Thr Asp Glu Val Thr Lys Leu Arg Ser Asp Leu Val Asn Leu
            260                 265                 270
His Asp Tyr Val Asn Glu Leu His Gln Lys Gln Glu His Ala His Arg
        275                 280                 285
Glu Lys Leu Leu Arg Gln Ala Arg Lys Glu Glu Arg Glu Thr Arg Arg
    290                 295                 300
Arg Glu Ala Trp Phe Ala Ala Glu Arg Lys Gly Lys Lys Gly Asp Ala
305                 310                 315                 320
Val Leu Arg Arg Met Glu Leu Glu Glu Glu Ala Gln Thr Ser Glu Thr
                325                 330                 335
Asp Asp Gln Ser Ser Asp Glu Gln
            340
```

<210> 25505
<211> 79
<212> PRT
<213> A.fumigatus

<400> 25505

```
Lys Arg Gln Ser Leu Leu Val Thr Ala Leu Ile Ile Gly Phe Ala Gly
1               5                   10                  15
Leu Ser Phe Leu Phe Gln Phe His Thr Pro Lys Tyr Gly Ile Thr Leu
            20                  25                  30
Leu Pro Phe Pro Leu Gly Ser Glu Pro Gly Phe Pro Pro Ala Ser Phe
        35                  40                  45
Ala Leu Phe Leu Ser Ser Leu Thr Gln Glu Leu Leu Ala Met Gly Met
    50                  55                  60
Leu Leu Leu Leu Met Gln Leu Ile Asp Val Val Met Gln Val Asp
65                  70                  75
```

<210> 25506
<211> 141
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25506

```
Xaa Gly Asn Pro Arg Leu Gly Ser Gly Tyr Asp Cys Ser Ser Ser Val
1               5                   10                  15
Val Arg Gly Glu Gln Ala Ser Leu Phe Met Thr Gly Thr Trp Gln Ser
            20                  25                  30
Lys Pro Gly Glu Val Glu Arg Ala Val Ser His Ala Ile Ser Val Gly
        35                  40                  45
Tyr Arg His Ile Asp Thr Ala Tyr Cys Tyr Gln Asn Glu Thr Glu Val
```

```
    50                  55                  60
Gly Asn Gly Ile Lys Glu Ala Leu Gln Ser Gly Lys Val Lys Arg Glu
65                  70                  75                  80
Asp Leu Phe Val Thr Thr Lys Leu Trp Cys Thr Tyr His Thr Arg Val
                85                  90                  95
Glu Glu Ala Leu Asp Lys Ser Leu Lys Asn Leu Gly Leu Asp Tyr Val
            100                 105                 110
Asp Leu Tyr Leu Met His Trp Pro Leu Ala Met Asn Pro Glu Gly Lys
        115                 120                 125
His Leu Ser Thr Leu Ala Asn His Arg Asn Leu Thr Gly
    130                 135                 140
```

<210> 25507
<211> 179
<212> PRT
<213> A.fumigatus

<400> 25507

```
Ala Ser Phe Asn Pro Cys Lys Pro Gln Lys Pro Asn Trp Leu Lys Gly
1               5                   10                  15
Asn His Glu Leu Phe Pro Lys His Pro Asp Gly Ser Arg Asp Ile Val
            20                  25                  30
His Ser His Ser His Ile Thr Thr Trp Lys Ser Met Glu Lys Leu Leu
        35                  40                  45
Ala Thr Gly Lys Thr Lys Ala Ile Gly Val Ser Asn Tyr Ser Lys Arg
    50                  55                  60
Tyr Leu Glu Gln Leu Leu Pro Glu Ala Thr Val Val Pro Ala Val Asn
65                  70                  75                  80
Gln Ile Glu Asn His Pro Ser Leu Pro Gln Gln Glu Ile Val Asp Phe
                85                  90                  95
Cys Lys Glu Lys Gly Ile His Ile Thr Ala Tyr Ser Pro Leu Gly Ser
            100                 105                 110
Thr Gly Ser Pro Leu Phe Thr Ala Glu Pro Ile Val Ala Val Ala Lys
        115                 120                 125
Lys Arg Gly Val Ser Pro Ala Ser Val Leu Leu Ser Trp His Ser Thr
    130                 135                 140
Phe Pro Phe Ala Ser Pro Ile Ser Leu Phe Ala Cys Asn Pro Leu Thr
145                 150                 155                 160
Ile Ile Tyr Cys Asn Ser Phe His Leu Arg Glu Leu Asp Ala Ser Ala
                165                 170                 175
Leu Ser Asp
```

<210> 25508
<211> 453
<212> PRT
<213> A.fumigatus

<400> 25508

```
Lys Arg Asn Glu Thr Lys Leu Leu Gly Lys Met Thr His Ser Gln Glu
1               5                   10                  15
Ile Leu Ala Leu Leu Glu Tyr Leu Arg Met Gln Arg Met Asn Ser Val
            20                  25                  30
Val Ala Ser His His Ile Thr Lys Asp Phe Pro Asp Leu Phe Tyr Ala
        35                  40                  45
Pro Gly Phe Lys His Ile Ser Gly Met Leu Tyr Val Pro Leu Ser Ala
```

```
    50                  55                  60
Gly Gly Thr Asp Phe Met Val Phe Phe Arg Arg Gly His Leu Thr Glu
65                  70                  75                  80
Ile Lys Trp Ala Gly Asn Pro Tyr Asp Lys Lys Pro Gln Asn Gly His
                85                  90                  95
Leu Glu Pro Arg Lys Ser Phe Gln Thr Trp Arg Glu Thr Val Leu Asp
            100                 105                 110
Gln Ser Arg Glu Trp Thr Glu Ser Asp Val Glu Thr Ala Ala Val Leu
        115                 120                 125
Cys Leu Val Tyr Gly Lys Phe Ile Lys Val Trp Arg Gln Lys Glu Ala
    130                 135                 140
Ala Met Glu Asn Ser Gln Leu Thr Arg Leu Leu Leu Ala Asn Ser Ala
145                 150                 155                 160
His Glu Phe Arg Thr Pro Leu Asn Ala Val Ile Asn Tyr Leu Glu Ile
                165                 170                 175
Ala Leu Glu Gly Ser Leu Asp Pro Glu Thr Arg Asp Asn Leu Thr Lys
            180                 185                 190
Ser Tyr Ser Ala Ser Lys Ser Leu Ile Tyr Val Ile Asn Asp Leu Leu
        195                 200                 205
Asp Leu Thr Asn Ala Glu Lys Gly Gln Lys Leu Ile Lys Asp Glu Ile
    210                 215                 220
Phe Asp Leu Pro Ala Thr Phe Arg Glu Ala Thr Asp Met Phe Glu Gly
225                 230                 235                 240
Glu Ala Lys Arg Lys Ser Ile His Tyr Lys Val Val Ala His Pro Gly
                245                 250                 255
Leu Pro Pro Ala Val Ile Gly Asp Gln Arg Arg Val Arg Gln Val Phe
            260                 265                 270
Thr Asn Leu Ile Ser Asn Ala Val Arg His Thr Thr Ala Gly Ser Val
        275                 280                 285
Thr Thr Glu Ile Trp Arg Ser Leu Glu Gln Ala Gln Pro Gly Cys Val
    290                 295                 300
Val Val Gln Met Thr Val Leu Asp Thr Gly Ser Gly Met Ser Gln Ser
305                 310                 315                 320
Thr Leu Glu Ala Leu Phe Gln Glu Leu Glu Gln Val Ser Thr Asp Asp
                325                 330                 335
Asp Asn Tyr Trp Phe Asp Pro Glu Asp Gln Thr His Pro Leu Asp Ser
            340                 345                 350
Cys Ser Gln Asp Lys Arg Val Leu Gly Leu Gly Leu Ala Leu Val Ala
        355                 360                 365
Arg Ile Val Arg Asn Met His Gly Gln Leu Ser Val Arg Ser Glu Lys
    370                 375                 380
Gly Lys Gly Ser Tyr Phe Glu Ile Ser Leu Asn Phe Pro Val Pro Asp
385                 390                 395                 400
Asp Val Ala Ser Gly Glu Ser Glu Glu Pro Ser Val Pro Asp Ile Val
                405                 410                 415
Glu Pro Ala Val Pro Ile Gln Gln Glu Val Glu Phe Met Leu Val Asp
            420                 425                 430
Ser Lys Ser Thr Arg Gly Gly Glu Gln Arg Arg Arg Ser Thr Gly Ser
        435                 440                 445
Asp His Ser Lys Gly
    450
```

<210> 25509
<211> 101
<212> PRT
<213> A.fumigatus

<400> 25509
Leu Arg Leu Asn Leu Leu Gln Val Pro Asp Asn Gln Ile Phe Leu Leu
1 5 10 15
Asp Thr Phe Ala Arg Pro Arg Phe Val Leu Thr His Ala Ala Asn Lys
20 25 30
Gln Ile Gln Asp Leu His Val Leu Val Ile Arg Asp Leu Arg Leu Leu
35 40 45
Thr Arg Ser Cys Phe Arg Met Val Thr His Gly Thr Val Thr Phe Pro
50 55 60
Ile Pro Ile Ser His Leu Val Ile Leu Phe Thr Ser Ala Cys Ile Arg
65 70 75 80
Met Ser Ala Phe Val Val Val Asn Phe Asn Ile Ile Leu Leu Asp Gly
85 90 95
Asp Asp Ala Leu Ala
100

<210> 25510
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25510
Ile Thr Ser Val Leu Leu Ser Arg Leu Ala Ser Leu Leu Arg Pro Val
1 5 10 15
Ile Thr Tyr Gln Leu Pro Tyr Leu Pro Leu Ile Ser Leu Ser Gly Arg
20 25 30
Phe Tyr Glu Phe Val Phe Leu Lys Ser Phe Ser Ile Asp Thr Ser Thr
35 40 45
Ser Ser Cys His Leu Asp Leu Thr Ile Cys Leu Asp Pro Thr
50 55 60

<210> 25511
<211> 327
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (60)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25511
His Ala Ala Pro Ile Leu Asn Phe Ser Ala Leu Ile Met Ser Arg Phe
1 5 10 15
Asp Cys Phe Phe Val Ile Arg Asp Glu Pro Asn Glu Ala Val Asp Arg
20 25 30
Asn Leu Ala Asp His Ile Val Asn Val His Met Asn Arg Asp Glu Ala
35 40 45
Val Gln Pro Glu Leu Ser Thr Glu Gln Leu Gln Xaa Tyr Ile Arg Phe
50 55 60
Ala Arg Thr Phe Arg Pro Val Phe Thr Glu Glu Ala Lys Ala Leu Leu
65 70 75 80
Val Glu Lys Tyr Lys Glu Leu Arg Ala Asn Asp Ala Gln Gly Gly Ile
85 90 95
Gly Arg Ser Ser Tyr Arg Ile Thr Val Arg Gln Leu Glu Ser Leu Ile

```
            100                 105                 110
Arg Leu Ser Glu Ala Val Ala Lys Ala Asn Cys Val Glu Glu Ile Val
        115                 120                 125
Pro Ser Phe Val Arg Glu Ala Tyr Asp Leu Leu Arg Gln Ser Ile Val
    130                 135                 140
Thr Val Glu Lys Asp Asp Val Glu Val Asp Asp Asp Glu Gly Thr His
145                 150                 155                 160
Ala Asn Ala Gly Ala Gly Glu Glu Asp His Glu Met Ala Asp Arg Asp
                165                 170                 175
Arg Glu Gly Asp Ser Pro Met Arg Asp His Ala Glu Ala Arg Pro Arg
            180                 185                 190
Gln Lys Thr Lys Ile Thr Tyr Asp Lys Tyr Met Lys Ile Leu Asn Leu
        195                 200                 205
Phe Val Arg Arg Val Ser Glu Asp Glu Ser Arg Ser Gly Glu Gly Val
    210                 215                 220
Glu Gln Glu Asp Leu Ile Val Trp Tyr Leu Glu Gln Ile Glu Ser Glu
225                 230                 235                 240
Leu Asn Ser Glu Glu Asp Leu Gln Arg Glu Arg Asp Leu Ala Gly Lys
                245                 250                 255
Val Leu Lys Arg Met Val Lys Val Arg Ser Ser Pro Thr Ala Ser Val
            260                 265                 270
Phe Val Thr Ala Cys Phe Thr Asp Tyr Leu Arg His Asn Arg Lys Ile
        275                 280                 285
Ser Ser Cys Gln Ser Glu Glu Arg Val Trp Trp Met Leu Met Gly Ile
    290                 295                 300
Arg Lys Asn Arg Phe Asn Gly Pro Ser Met Cys Cys Ile Leu Thr Val
305                 310                 315                 320
Pro Thr Arg Arg Leu Lys Arg
                325
```

<210> 25512
<211> 271
<212> PRT
<213> A.fumigatus

<400> 25512

```
Phe Leu Cys Val Lys Gly Pro Lys Val Gly His Leu Ala His Phe Trp
1               5                   10                  15
His Met Val Phe His Glu Ser Lys Asp Val Ala Val Ile Val Met Leu
            20                  25                  30
Thr Gln Thr Val Glu Ser Gly Arg Glu Lys Cys Ala Gln Tyr Phe Ser
        35                  40                  45
Leu Asp His Asp Arg Pro Ser Met Ile Leu Arg His Asp Glu Asp Asp
    50                  55                  60
Pro Phe Glu His Asn Glu Glu Tyr Glu Glu Ala Asn Asp Asn Val Met
65                  70                  75                  80
Gly Glu Val Thr Leu Leu Glu Ser Ser Phe Asp Gln Asn Ser Arg Ser
                85                  90                  95
Glu Val Arg Lys Leu Arg Leu Thr Leu Ala Asn Glu Ser Lys Ile Val
            100                 105                 110
Trp His Phe Leu Phe Ala Gly Trp Ala Asp Tyr Ser Lys Pro Glu Gly
        115                 120                 125
Glu Asp Arg Glu Ala Leu Leu His Leu Ile Glu Leu Ser Ala Ser Lys
    130                 135                 140
Cys Ser Ser Asp Asn Pro Arg Ile Val His Cys Ser Ala Gly Val Gly
145                 150                 155                 160
```

```
Arg Thr Gly Thr Phe Ile Ala Leu Asp His Leu Leu Arg Glu Leu Glu
                165                 170                 175
Ser Gly Gln Leu Leu Lys Val Thr Asp Ser Gln Thr Asp Pro Val Phe
            180                 185                 190
Glu Thr Val Asn Arg Met Arg Glu Gln Arg Met Met Met Val Tyr Asn
        195                 200                 205
Glu Met Gln Leu Gln Phe Ile Tyr Glu Val Leu Arg Glu Gln Val Asp
    210                 215                 220
Leu Lys Leu Gly Lys Arg Thr Ser Asn Ala Gly Arg Arg Leu Asp Glu
225                 230                 235                 240
Arg Ser Ala Lys Met Ala Lys Leu Ser Asn Ser Ser Glu Tyr Leu Pro
                245                 250                 255
Ser His Lys Pro Glu Leu Glu Pro Val Asn Asp Gly Pro Ser Pro
            260                 265                 270
```

<210> 25513
<211> 179
<212> PRT
<213> A.fumigatus

<400> 25513

```
Arg Arg Arg Pro Gly Phe Val Cys Asp His Pro Pro Glu Cys Phe Arg
1               5                   10                  15
Gly Ile Val Ala Thr Cys Gln Ala Ala Ala Gln Asn Trp Glu Gly Met
            20                  25                  30
Met Ala Leu Arg Phe Leu Leu Gly Leu Ser Glu Ser Ala Phe Gly Pro
        35                  40                  45
Gly Thr Pro Tyr Leu Leu Ser Phe Phe Tyr Arg Arg His Glu Leu Gly
    50                  55                  60
Leu Arg Ile Gly Leu Val Phe Ser Ala Ala Pro Leu Ala Asn Thr Phe
65                  70                  75                  80
Ala Gly Ala Leu Ala Tyr Gly Ile Thr Ser Gly His Ser Lys Leu Ala
                85                  90                  95
His Trp Arg Leu Leu Phe Leu Val Glu Gly Ala Pro Ser Ile Val Ala
            100                 105                 110
Ala Phe Leu Ala Trp Phe Tyr Leu Pro Asp His Pro Ala Ser Ala Arg
        115                 120                 125
Phe Leu Thr Asp Glu Glu Lys Glu Val Ala Arg Ala Arg Gly Leu Arg
    130                 135                 140
Lys Ser Gly Glu Gly Glu Arg Val Ala Gly Ile Asp Trp Thr Asp Ile
145                 150                 155                 160
Gly Arg Thr Leu Leu Asp Val Lys Ala Trp Ile Ala Ala Val Cys Cys
                165                 170                 175
Ala Ser Pro
```

<210> 25514
<211> 131
<212> PRT
<213> A.fumigatus

<400> 25514

```
Tyr Thr Ser Leu Gly Thr Gln Cys Val Ile Thr Asn Ser Leu Ser Ser
1               5                   10                  15
Asp Gln Met Leu Ile Asn His Leu Asp Asn Gln Gly Ser Asp Thr Arg
            20                  25                  30
```

```
Arg Gly Met Gly Ile Val Ile Leu Asn Leu Val Gly Gln Cys Gly Pro
        35                  40                  45
Phe Leu Gly Thr Asn Ile Phe Pro Glu Asn Asp Ala Pro Arg Tyr Val
    50                  55                  60
Arg Gly Gln Ser Val Cys Ala Ala Phe Met Ile Phe Val Thr Thr Leu
65                  70                  75                  80
Ala Leu Thr Leu Arg Cys Leu Leu Val Trp Glu Asn Lys Arg Leu Asp
                85                  90                  95
Gln Lys Tyr Gly Thr Lys Asn Glu Glu Ser Thr Lys Gly Gly Pro Asn
            100                 105                 110
Gly Asn Asp Asp Gly Val Ala Glu Glu Asn Tyr Gly Ser Thr Phe Arg
        115                 120                 125
Tyr Val Leu
    130
```

<210> 25515
<211> 161
<212> PRT
<213> A.fumigatus

```
<400> 25515
Gln Ala Leu Thr Gly Arg Ile Leu Ala Val Pro Cys Trp Met Leu Lys
1               5                   10                  15
Pro Gly Ser Gln Arg Tyr Val Val Leu Pro Leu Glu Pro Arg Ser Ser
            20                  25                  30
Cys Pro Asp Thr Glu Leu Gln Leu Met Tyr Phe Ser Cys Asn Val Ser
        35                  40                  45
Phe Ser Ser Leu Pro Val Phe Leu Pro Lys Ile Ile Lys Asp Met Gly
    50                  55                  60
Phe Thr Ser Ile Asn Ala Gln Gly Leu Thr Ala Pro Pro Tyr Phe Ala
65                  70                  75                  80
Ser Phe Leu Val Thr Ile Ala Thr Thr Trp Leu Ala Asp Arg Leu Gln
                85                  90                  95
Gln Arg Gly Leu Met Ile Ile Leu Leu Ser Leu Thr Gly Ala Ile Gly
            100                 105                 110
Tyr Val Leu Leu Ala Thr Cys Thr Ser Val Gly Val Arg Tyr Leu Gly
        115                 120                 125
Val Phe Leu Ala Ala Val Gly Val Phe Pro Ser Ile Ala Asn Ile Leu
    130                 135                 140
Pro Trp Val Leu Ser Ala Ser Ser Pro Ile Pro Tyr Arg Leu Thr Arg
145                 150                 155                 160
Cys
```

<210> 25516
<211> 64
<212> PRT
<213> A.fumigatus

```
<400> 25516
Thr Gln Ser Ser Lys Tyr Ala Asp Arg Ala Lys Arg Asn Leu Asp Glu
1               5                   10                  15
Lys Tyr Ser Tyr Leu Ala Gly Asn Ala Phe Gly Arg Asp Lys Lys Gly
            20                  25                  30
Arg Val Lys Arg Asp Asp Pro His Glu Met Gln Ala Gly Ala Glu Gly
        35                  40                  45
```

```
Gly Gly Ala Glu Tyr Thr Ala Tyr Val Tyr Tyr Glu Phe Glu Phe Asn
    50                  55                  60

<210> 25517
<211> 144
<212> PRT
<213> A.fumigatus

<400> 25517
His Ile Trp Phe Ser Arg Leu Val Ser Phe Asn Ser Tyr Val Ser Leu
1               5                   10                  15
Val Leu Pro Ala Ser Arg Pro Asp Ile Met Ser Lys Ser Asn Lys Tyr
            20                  25                  30
Leu Leu Val Ser Leu Pro Thr Ser Ile Thr Pro Ser His His Arg Asp
        35                  40                  45
Asp Ala Leu Asp Ala Val Ser Ala Thr Val Ser Pro Asp Asn Gly Ser
    50                  55                  60
Val Ala Pro Phe Pro Ile Pro Glu Phe Lys Ile Gly Thr Leu Asp Ala
65                  70                  75                  80
Leu Val Gln Gln Ala Asp Glu Leu Ala Lys Leu Glu Ala Ser Cys Gln
                85                  90                  95
Gly Val Val Ala Lys Val Gly Asp Ala Leu Lys Gly Val Leu Glu Gly
            100                 105                 110
Asp Glu Thr Gln Ile Asp Lys Met Lys Thr Val Asn Asp Ser Met Ser
        115                 120                 125
Thr Val Ser Ala Ala Ser Val Gly Glu Gly Gly Ser Leu Leu Ala Asp
    130                 135                 140

<210> 25518
<211> 204
<212> PRT
<213> A.fumigatus

<400> 25518
Val Leu Ala Ile Gln Pro Gly Glu Glu Tyr Ala Gly Asp Ser Ser Thr
1               5                   10                  15
Gln Thr Asn Val Arg Ala Ser Pro Leu Ser Leu Gln His Ser Ser Asn
            20                  25                  30
Ser Phe Leu Ile Cys Arg Gly Asn Leu Ser Thr Lys Ser Leu Ala Ser
        35                  40                  45
Val Val Asp Pro Arg Thr Leu Val Arg Asp Ser Glu Tyr Ile Glu Thr
    50                  55                  60
His Leu Val Ala Val Pro Ala Gln Gln Val Lys Glu Phe Leu Lys Thr
65                  70                  75                  80
Tyr Glu Thr Val Ala Pro Met Val Val Pro Arg Ser Ala Thr Leu Val
                85                  90                  95
Ala Ser Asp Asp Glu Phe Thr Leu Tyr Ala Val Thr Thr Phe Lys Lys
            100                 105                 110
His Ser Pro Glu Phe Val His Arg Cys Arg Glu His Lys Trp Ile Pro
        115                 120                 125
Arg Asp Phe Lys Tyr Val Glu Gly Gly Lys Glu Glu Glu Gln Lys Glu
    130                 135                 140
Val Glu Arg Val Gly Gly Asp Glu Arg Lys Leu Trp Gly Glu Thr Leu
145                 150                 155                 160
Arg Leu Gly Arg Thr Ala Trp Ser Glu Ala Val Met Val Trp Ile His
                165                 170                 175
```

```
Val Leu Val Leu Arg Val Phe Val Glu Thr Val Leu Arg Tyr Gly Leu
            180                 185                 190
Pro Leu Asp Phe Val Cys Thr Ile Ile Arg Val Cys
        195                 200
```

<210> 25519
<211> 253
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (245)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25519

```
Asp Asp Ser Gly Asp Pro His Arg Arg Arg Arg Leu Leu Met Ile Leu
1               5                   10                  15
Val Arg Thr Thr Asp His Pro Ser Ser Arg Gly Leu Pro Glu His His
            20                  25                  30
Leu Val Ala Leu Pro Pro Arg Gly Glu Asp Ser Val His Asn Leu Leu
        35                  40                  45
Gly Phe Arg Asn Leu Asp Leu Tyr Arg Thr Ile Asp Thr Ser Ser Ile
    50                  55                  60
Leu Ile Gln Phe Leu Val Phe Ala Leu Thr Val Leu Thr Pro Ser Thr
65                  70                  75                  80
Pro Trp Phe Gln Phe Leu Phe Val Ala Asn Ala Ala Val Trp Arg Ile
                85                  90                  95
Trp Tyr Ser Val Gly Ile Gly Phe Val Leu Asn Arg Gln Ser Asn Cys
            100                 105                 110
Lys Ala Trp Thr Arg His Phe Val Lys Tyr Gly Glu Ser Pro Gln Glu
        115                 120                 125
Ala Trp Asn Gln Trp Lys Gly Thr Tyr His Ile Ser Met Val Met Cys
    130                 135                 140
Tyr Ala Ser Phe Ile Ala Ala Val Trp Lys Met Tyr Ser Phe Pro Ala
145                 150                 155                 160
Asp Trp Gly Tyr Gly Leu Val Leu Leu Arg His Val Leu Gly Ala Gly
                165                 170                 175
Leu Ile Ala Leu Gln Ile Trp Thr Ser Val Ser Ile Tyr Glu Ser Leu
            180                 185                 190
Gly Glu Phe Gly Trp Phe Tyr Gly Asp Phe Phe Phe Asp Glu Ser Pro
        195                 200                 205
Lys Leu Thr Tyr Asp Gly Ile Tyr Arg Phe Leu Asn Asn Pro Glu Arg
    210                 215                 220
Val Leu Gly Leu Ala Gly Val Trp Gly Ala Val Leu Ile Thr Ser Ser
225                 230                 235                 240
Gly Ala Val Thr Xaa Pro Cys Pro Gly Trp Ala Ile Phe
                245                 250
```

<210> 25520
<211> 232
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (67)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25520
Pro Pro Pro Pro Pro Pro Arg Pro Pro Pro Pro Pro Pro Ala Pro Pro
1 5 10 15
Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro His
20 25 30
Pro Pro Pro Pro Ser Pro Arg Pro Pro Pro Arg Ala Gln Arg Gly Ile
35 40 45
Ile Ser Pro Gly Ala Asp Asp Leu Gly Ser Lys Tyr Gly Pro Pro Arg
50 55 60
Ala Arg Xaa Ser Asp Ser Pro Thr Ala Gly Asp Lys Asp Gly Ala Pro
65 70 75 80
Asn Thr Cys Gln Pro Gln Asn Thr Leu Arg Val Val Gln Glu Thr Ile
85 90 95
Asn Ala Val Ile Arg Gln Phe Gly Arg Phe Val Glu Glu Glu Ile Ser
100 105 110
Val Glu Pro Thr Lys Leu Ser Lys Gly Phe Val Asp Ala Asp Gly Cys
115 120 125
Pro Asp Leu Gln Gly Asn Glu Pro Cys Thr Gln Asp Val Ser Glu Gln
130 135 140
His Lys Ala Ile Ala Pro Ile Arg Arg Lys Thr Val His Leu Pro Asp
145 150 155 160
Gly Ser Asn Glu Ala Arg Val Ala His Asn His Ala Asp Met Ile Ser
165 170 175
Ala Phe Pro Leu Ile Pro Gly Leu Leu Arg Ala Phe Ala Ile Phe Tyr
180 185 190
Lys Val Ser Ser Pro Gly Leu Thr Ile Arg Leu Thr Val Glu His Glu
195 200 205
Thr Asp Thr Asn Arg Ile Pro Asp Ser Pro Asp Cys Arg Val Gly Asp
210 215 220
Lys Lys Glu Leu Glu Pro Arg Ser
225 230

<210> 25521
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25521
Asn Cys Cys Thr Cys Ala Leu Lys Pro Ser Gly Ser Leu Leu Ala Tyr
1 5 10 15
Gln Trp Ile Ala Thr Lys Ser Ile Val Gln Val Leu Gln Cys Ser Lys
20 25 30
Asn Trp Ser Ile His Pro Val Pro Met Leu Gly Gly Gly Pro Phe Val
35 40 45
Thr Ala Gly Val Glu Met Arg Thr Trp Ala Ala Asn Gly Cys Arg Leu
50 55 60
Thr Arg
65

<210> 25522
<211> 100
<212> PRT
<213> A.fumigatus

<400> 25522
Asp Leu Pro Ser Pro Ser Pro Arg Glu Ser Ala Val Ser Arg Ile Thr
1 5 10 15
Thr Ala Pro Ser Gln Ile Ser Ser Ala Asp Ile Ala Thr Ser Pro Gly
20 25 30
Val Thr Thr Gly Ala Thr Ser Ala Thr Gly Ser Ala Pro Pro Trp Thr
35 40 45
Ser Ile Pro Cys Ser Gly Ala Cys Pro Pro Arg Trp Thr Pro Ser Gly
50 55 60
Pro Pro Pro Phe Thr Gln Pro Ala Ser Lys Pro Ser Trp Ala Ser Thr
65 70 75 80
Ser Leu Thr Ser Ala Pro Asn Arg Thr Leu Ala Arg Pro Thr Arg Pro
85 90 95
Pro Ala Thr Trp
100

<210> 25523
<211> 265
<212> PRT
<213> A.fumigatus

<400> 25523
Thr Cys Ala Asp Ala Arg Ser Pro Glu Val Lys Ile Leu Ile Ser Ile
1 5 10 15
Thr Met Ile Phe Lys Ala Ile Phe Pro Ile Leu Tyr Ala Leu Gly Pro
20 25 30
Ala Leu Ala Leu Ala Gln Gly Lys Arg Gly Leu Ala Tyr Asn Asp Gly
35 40 45
Ala Leu Ala Asn Leu Phe Ser Gly Tyr Ser His Val Thr Trp Gly Tyr
50 55 60
Asn Trp Gly Tyr Glu Arg Asn Gly Leu Gly Ala Ser Leu Asp Phe Asn
65 70 75 80
Pro Met Leu Trp Gly Leu Pro Ser Ser Leu Asp Pro Gln Trp Thr Ala
85 90 95
Ala Val His Ala Thr Gly Val Glu Ala Ile Leu Gly Phe Asn Glu Pro
100 105 110
Asp Leu Gly Ser Gln Ser Asn Ile Ser Pro Ala Asp Ala Ala Ala Gly
115 120 125
Tyr Leu Val Ser Leu Gln Pro Phe Ala Ala Gln Val Arg Ile Ser Thr
130 135 140
Pro Ala Val Thr Asn Gly Pro Pro Pro Asn Met Gly Thr Gly Trp Met
145 150 155 160
Asp Gln Phe Phe Glu His Cys Arg Thr Cys Thr Ile Asp Leu Val Ala
165 170 175
Ile His Trp Tyr Ala Asn Asn Asp Pro Glu Gly Phe Lys Ala His Val
180 185 190
Gln Gln Phe Tyr Asp Lys Tyr His Leu Pro Ile Trp Ile Thr Glu Phe
195 200 205
Ala Ser Ser Gly Ser Glu Ala Glu Gln Ile Gln Phe Leu Gln Ala Val
210 215 220
Leu Pro Trp Leu Asp Ala Gln Pro Tyr Val Glu Arg Tyr Ala Tyr Phe
225 230 235 240
Gly Val Phe Pro Gly Phe Leu Val Asn Glu Gly Gly Asp Gly Leu Ser
245 250 255
Gln Leu Gly Gln Val Tyr Ala Thr Tyr

260 265

<210> 25524
<211> 159
<212> PRT
<213> A.fumigatus

<400> 25524
Leu Thr His Cys Ala Asp Pro Ser Gly Pro Val Val Lys Thr Pro Tyr
1 5 10 15
Ile Gln Ser Tyr Phe Ala Thr Thr His Trp Ala Tyr Gln Lys Leu Ala
20 25 30
Ala Leu Glu Lys Arg Leu Arg Asp Leu Lys Leu Phe Lys Ser Ser Ser
35 40 45
Gly Asp Ala Ser Glu Arg Pro Trp Phe Ala Asp Gly Ala Lys Asn Glu
50 55 60
His Gln Leu Thr Thr Ala Gly Ser Ile Gln Asp Asp His Ile Pro Phe
65 70 75 80
Leu Ala Arg Gly Val Glu Ile Leu His Val Ile Asp Ala Ser Pro Met
85 90 95
Thr Gly Phe Pro Ser Val Trp His Ser Met Asp Asp Asp Gly Glu His
100 105 110
Leu Asp Leu Asp Thr Val Glu Asp Trp Ser Leu Leu Phe Thr Ala Phe
115 120 125
Ala Ala Glu Trp Met Glu Leu Glu Asp Phe Met Pro Gly Asn Glu Ala
130 135 140
Arg Leu Lys Glu Lys Arg Ser His Ser Glu Arg Lys Thr Glu Leu
145 150 155

<210> 25525
<211> 240
<212> PRT
<213> A.fumigatus

<400> 25525
Ile Arg Met Val Ala Gly Cys Thr Ser Ala His Met Leu Cys Val Leu
1 5 10 15
Ser Arg Leu Ser Pro Arg Ser Leu Ile Ala Thr Ala Ile Phe Phe Thr
20 25 30
Thr Ala Leu Leu Thr Ala Asn Phe Val Asn Gly Gly Gln Asn Ile Pro
35 40 45
Ser Cys Pro Ser Gly Ile Pro Cys Tyr Thr Pro Val Tyr Pro Ser Thr
50 55 60
Glu Glu Leu Ala Phe Met Val Thr Thr Thr Ala Leu Thr Leu Val Thr
65 70 75 80
Asn Phe Val Ile Val Pro Arg Val Leu Asp Arg Ser Lys Lys Ser Arg
85 90 95
Thr Ile Phe Ser Tyr Leu Ala Gly Leu Gln Phe Gly Leu Gly Leu Phe
100 105 110
Ile Ser Gly Met Ala Asp Pro Ala Lys Val Leu Arg Phe Phe Ala Val
115 120 125
Leu Thr Asp Pro Ala Arg Trp Asp Pro Ser Leu Ala Leu Ile Ile Leu
130 135 140
Phe Gly Ile Gly Pro Ser Leu Ala Thr Tyr Leu Ser Val Lys Pro Gly
145 150 155 160
Gln Lys Lys Gly Glu Lys Gln Lys Gly Glu Glu Ser Ala Lys Pro Thr

```
                165                 170                 175
Leu Ala Asp Asn Trp Lys Leu Pro Thr Leu Thr Met Ala Asp Ile Asp
            180                 185                 190
Trp Arg Phe Val Thr Gly Ala Val Ala Phe Gly Leu Ala Trp Gly Leu
        195                 200                 205
Arg Gly Val Cys Pro Gly Pro Ala Ile Leu Arg Thr Val Val Gln Pro
    210                 215                 220
Thr Trp Gly Leu Val Ala Met Thr Gly Tyr Met Leu Gly Asn Leu Phe
225                 230                 235                 240
```

<210> 25526
<211> 123
<212> PRT
<213> A.fumigatus

<400> 25526

```
Cys Pro Ser Ser Tyr Thr Gln Val Arg Leu Phe Val Glu Arg Thr Phe
1               5                   10                  15
Pro Pro Leu Arg Ala Glu Glu Leu Cys Arg Gly Arg Phe Asp Ile Asp
            20                  25                  30
Met Tyr Glu Ser Ser Phe Arg Leu Arg Gly Lys Thr Tyr Asp Tyr Lys
        35                  40                  45
Ile Gln Tyr Ala Ser Ile Lys Lys Phe Phe Leu Leu Pro Lys Asn Asp
    50                  55                  60
Glu Met His Thr Leu Ile Val Leu Gly Leu Asp Pro Pro Leu Arg Gln
65                  70                  75                  80
Gly Gln Thr Arg Tyr Pro Phe Leu Val Met Gln Leu Lys Leu Asp Glu
                85                  90                  95
Glu Ile Ser Leu Glu Leu Asn Met Thr Glu Ser Val Leu Pro Lys Phe
            100                 105                 110
Arg Phe Asp Val Asp Leu Gly Thr Asn Ser Leu
        115                 120
```

<210> 25527
<211> 74
<212> PRT
<213> A.fumigatus

<400> 25527

```
Tyr Ala Cys Ala Gly Phe Arg Pro Pro Trp Ser Ser Thr Gly Lys Cys
1               5                   10                  15
Lys Leu Ala Glu Ser Gly Leu Gly Trp Arg Pro Ser Gly Gly Gly Glu
            20                  25                  30
Thr Phe Thr Leu Asp Ser Asn Asn Ile Gly Ala Ala Gln Trp Ser Arg
        35                  40                  45
Ala Ala Lys Gly Tyr Glu Leu Lys Ile Leu Ser Arg Ser Ser Gly Val
    50                  55                  60
Ile Gln Leu Asp Gly Phe Asp Gln Glu Val
65                  70
```

<210> 25528
<211> 236
<212> PRT
<213> A.fumigatus

<400> 25528

```
Asp Phe Glu Arg Leu Ser Lys Ala Phe Lys Ile Trp Tyr Gly Ile Asn
1               5                  10                  15
Val Glu Asn Arg Glu His Ala Leu Arg Gly Trp Asn Trp Gly Lys Ala
            20                  25                  30
Glu Phe Thr Lys Ala Lys Leu Ala Phe Asn Val Gln Asn Arg Pro Ala
        35                  40                  45
Phe Glu Ile Pro Tyr Ser Glu Ile Ser Asn Thr Asn Leu Ala Gly Lys
    50                  55                  60
Asn Glu Val Ala Val Glu Phe Ala Leu Thr Ser Asp Gly Asp Ala Asn
65                  70                  75                  80
Ala Gln Pro Ser Gly Ser Thr Lys Asn Arg Gly Arg Lys Ala Ala Ala
                85                  90                  95
Gly Pro Asp Glu Leu Val Glu Met Arg Phe Tyr Ile Pro Gly Thr Ala
            100                 105                 110
Val Lys Thr Glu Lys Gly Ile Lys Thr Glu Asn Asp Glu Asn Gly Glu
        115                 120                 125
Glu Glu Glu Glu Gly Glu Glu Gln Asn Ala Ala Asn Leu Phe Tyr Asp
    130                 135                 140
Thr Leu Met Glu Lys Ala Glu Ile Gly Asp Val Ala Gly Asp Thr Phe
145                 150                 155                 160
Ala Thr Phe Leu Asp Val Leu His Leu Thr Pro Arg Tyr Val Ser Leu
                165                 170                 175
Leu Asn Ala Leu Phe Arg His Cys Val Leu Arg Asn Ser Ala Glu Val
            180                 185                 190
Ala Leu Ile Ser Thr Cys Thr Asn Arg Arg Ser Asp Phe Ala Ala Lys
        195                 200                 205
His Thr Thr Ile Arg Phe Asn Thr Pro Leu Ser Arg Asn Ser Ser Cys
    210                 215                 220
Phe Leu Arg Thr Thr Arg Cys Thr His Ser Leu Tyr
225                 230                 235
```

<210> 25529
<211> 326
<212> PRT
<213> A.fumigatus

```
<400> 25529
Arg Ala Gly Ser Leu Phe Ile Phe Phe Pro Asn Leu Val Leu Cys Arg
1               5                  10                  15
Thr Ser Gln Arg Met Ser Lys Gly Ser Ile Ala Met Asp Thr Pro Pro
            20                  25                  30
Glu Lys Asp Trp Ile Gln Leu Asp His Gly Gln Val Arg Ser Gly Leu
        35                  40                  45
Gly Leu Val Ser Ser Arg Thr Ser Glu Arg Leu Asn Gln Val Asp Arg
    50                  55                  60
Ile Arg Ala Asn Gly Val Gly Asp His Ile Ala Leu Pro Gln Leu Val
65                  70                  75                  80
Val Cys Gly Asp Gln Ser Ala Gly Lys Ser Ser Val Leu Glu Gly Ile
                85                  90                  95
Ser Gly Ile Pro Phe Pro Arg Gln Asp Gly Val Cys Thr Arg Phe Ala
            100                 105                 110
Thr Glu Ile Ile Leu Arg His Glu Pro Asn His Arg Arg Asn Thr Ala
        115                 120                 125
Thr Ile Leu Pro His Ile Ser Arg Thr Glu Glu Glu Lys Ala Lys Leu
    130                 135                 140
Ser Ala Phe Arg Arg Glu Val Ser Asp Leu Ala Gln Leu Pro Gly Ile
```

```
145                 150                 155                 160
Ile Glu Glu Ala Ala Arg Leu Met Gly Val Gln Gly Met Asn Asp Leu
                165                 170                 175
Ala Asp Ala Pro Thr Phe Ala Ala Asp Val Leu Arg Leu Glu Ile Val
            180                 185                 190
Gly Asp Thr Gly Leu His Leu Thr Leu Val Asp Leu Pro Gly Leu Ile
        195                 200                 205
Ser Val Ser Glu Asn Asp Asp Asp Val Gln Leu Val Gly Asp Leu Val
    210                 215                 220
Asn Ser Tyr Leu Glu Asn Ser Arg Ser Ile Ile Leu Ala Val Val Pro
225                 230                 235                 240
Ala Ser Ser Asp Val Asp Thr Gln Ser Ile Ile Gln Arg Ala Arg Arg
                245                 250                 255
Phe Asp Lys Asp Gly Phe Arg Thr Val Gly Ile Ile Thr Lys Pro Asp
            260                 265                 270
Leu Ile Asn Asp Gly Thr Glu Gly Arg Ile Ala Lys Leu Ala Asn Asn
        275                 280                 285
Ala Asp Arg Thr Lys Leu Arg Leu Gly Phe Phe Leu Val Lys Asn Pro
    290                 295                 300
Arg Pro Ile Asp Leu Glu Lys Val Phe Thr Thr Gly Val Glu Ala Thr
305                 310                 315                 320
Ala Glu Val Tyr Pro His
                325
```

<210> 25530
<211> 174
<212> PRT
<213> A.fumigatus

<400> 25530

```
Ile Pro Ser Asn Pro Arg Gly Gln Arg Arg Gly Asp Arg Arg Arg Arg
1               5                   10                  15
Arg Arg Thr His Thr Arg Arg Asn Arg Arg His Arg Arg Arg Arg Thr
            20                  25                  30
Met Arg Arg Arg Ser Pro Gly Tyr Arg Gly Arg Leu Arg Arg Thr Leu
        35                  40                  45
Ile Arg Glu Leu Pro Arg Leu Asp Gln His Gly Asn His Arg Ala Arg
    50                  55                  60
Leu Glu Arg Glu Gly Pro Met Pro Lys His Pro Gln Gln Thr Arg Asn
65                  70                  75                  80
Leu Ala Arg Met Arg Arg His Thr His Lys Gln Ile Leu Ala Ile Ser
                85                  90                  95
Ala Leu Lys His Leu Ile Gln Arg Thr Leu Thr Pro Arg Ile Leu Arg
            100                 105                 110
Arg Pro Arg Leu Pro Ser His Pro Ile Pro Gln Leu Val Leu Leu Thr
        115                 120                 125
Lys Pro Leu Phe Asn Arg Pro Pro Gly Lys Arg Pro Arg Asn Val Arg
    130                 135                 140
Ser Thr Pro Pro Met Ile Thr Arg Met Gln Thr Asn Pro Leu Ala Gln
145                 150                 155                 160
Pro Leu His His Gln Arg Leu Lys Arg Arg Ser Val Leu Gly
                165                 170
```

<210> 25531
<211> 240
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25531

```
Tyr Trp Ser Phe Leu Asp Gly Asn Gly Thr Ala Xaa Trp Ser Asp Ala
1               5                  10                  15
Asp Leu Thr Pro Ala Gly Val Ala Gln Ala Gln Thr Ala His Asp Phe
            20                  25                  30
Trp Ala Ser Leu Ile Thr Arg Glu Gly Ile His Thr Pro Asp Ala Tyr
        35                  40                  45
Phe Val Ser Pro Leu Thr Arg Ala Leu Arg Thr Ala Asn Ile Thr Phe
    50                  55                  60
Gly Gly Leu Ala Leu Pro Lys Asp Ala Ala Ala Phe Glu Pro Leu Val
65                  70                  75                  80
Met Glu Gly Leu Arg Glu Gly Ile Ser Leu His Thr Cys Asp His Arg
                85                  90                  95
Arg Ser Arg Ser Tyr Ile Ala Gly Ser Phe Pro Gly Trp Ala Ile Glu
            100                 105                 110
Glu Gly Phe Ser Glu Glu Asp Glu Leu Trp Asn Gly Val Thr Gly Glu
        115                 120                 125
Thr Arg Ala Ala Gln Asp Ala Arg Ser Lys Ser Ala Leu Asp Glu Met
    130                 135                 140
Phe Glu Arg Thr Asp Gly Lys Asp Leu Phe Val Ser Val Thr Ala His
145                 150                 155                 160
Ser Gly Glu Ile Ala Ser Leu Leu Arg Val Leu Gly His Arg Ala Phe
                165                 170                 175
Ser Leu Lys Thr Gly Ala Val Ile Pro Val Leu Val Lys Ala Arg Lys
            180                 185                 190
Phe Ser Asn Lys Cys Ala Pro Glu Pro Thr Thr Val Pro Trp Thr Thr
        195                 200                 205
Ser Ala His Cys Thr Ala Pro Pro Val Thr Ser Val Thr Ala Cys Val
    210                 215                 220
Cys Ala Ser Ser Ala Ala Pro Val Thr Thr Pro Leu Ala Thr Gly Val
225                 230                 235                 240
```

<210> 25532
<211> 307
<212> PRT
<213> A.fumigatus

<400> 25532

```
Lys Tyr Phe Asp Trp Tyr Trp Ala Tyr Thr Gly Arg Asp Glu Thr Lys
1               5                  10                  15
Asp Ser Cys Leu Gly Met Pro His Ile Trp Asp Thr Ser Ala Gly Trp
            20                  25                  30
Thr Ile Arg Phe Asp Leu Val Asp Asn Gln Gly Phe Phe Asp Ala Leu
        35                  40                  45
Ala Ala Glu Thr Gly Ile Asp Ala Ser Trp Val Thr Phe Gly Asp Glu
    50                  55                  60
Thr Ser Asp Tyr Val Cys Ala Asp Pro Gly Asp Val Arg Pro Gly Leu
65                  70                  75                  80
Gly His Val Pro Cys Arg Lys Leu Tyr Cys Gln Lys Leu Asn Tyr Pro
```

```
                85                  90                  95
Gln Lys Ala Ser Asp Asp Ala Ile His Val Gly Asn Pro Lys Lys Leu
            100                 105                 110
Ile Glu Ala Ser Leu Gly Asn Val Thr Ala Leu Arg Thr Ser Leu Leu
        115                 120                 125
Ser Ser Tyr Leu Ser Val Gly Leu Ser Phe Tyr Asp Asp Gly Pro Asn
    130                 135                 140
Asp Gly Ala Ala Ser Asp Ala Val Val Ala Tyr Ser Met Pro Val Leu
145                 150                 155                 160
Gln Leu Ala Glu Ala Val Ser Ser Met Lys Asp Ile Lys Asp Ile Gly
                165                 170                 175
Glu Lys Ala Lys Glu Glu Ala Lys Lys Gln Leu Ile Phe Lys Ile Leu
            180                 185                 190
Ser Ile Val Phe Met Val Leu Pro Phe Val Gly Glu Ala Leu Gly Pro
        195                 200                 205
Leu Ile Gly Ser Ala Ala Ser Ile Ala Arg Ile Ala Leu Leu Ile Gly
    210                 215                 220
Glu Ala Gly Asn Gly Ala Leu Thr Val Ala Asp Ile Ile Glu Asp Pro
225                 230                 235                 240
Ser Ser Ala Pro Phe Ala Ile Leu Gly Leu Ile Ala Gly Val Gly Ser
                245                 250                 255
Gly Thr Gly Lys Leu Ser Lys Gly Glu Ala Leu Ala Asp Ala Ser Lys
            260                 265                 270
Ala Arg Gly Leu Leu Lys Ala Ser Asp Leu Ala Lys Phe Pro Gln Arg
        275                 280                 285
Phe Arg Asp Gln Asp Ala Leu Val Gln Lys Ile Val Lys Ser Leu Cys
    290                 295                 300
Ala Arg Lys
305
```

<210> 25533
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25533

```
Thr Gln Val Leu Ser Phe His Arg Gly Val Lys Asn Gln Leu Asn Ser
1               5                   10                  15
Cys Ser His Asn Tyr Leu Gly Tyr Ile Asp Ser Phe Ser Gly Asn Ser
            20                  25                  30
Gly Tyr Gln His Lys Val Thr Cys Thr Met Ile Cys Thr Leu Asp Val
        35                  40                  45
Glu Gln Asn Asn Glu Tyr Pro Val Val Arg Arg Trp Gly Ser Cys Gly
    50                  55                  60
Arg Phe Leu Gly Thr Gly Arg His Leu Arg Pro
65                  70                  75
```

<210> 25534
<211> 169
<212> PRT
<213> A.fumigatus

<400> 25534

```
Arg Thr Thr Arg Ser Ser Ala Arg Asp Arg Ser Leu Glu Arg Ser His
1               5                   10                  15
Gly Leu Gly Pro Pro Cys Gly Gly Gly Ser Asn Arg Cys Arg Glu Cys
```

```
            20                  25                  30
Arg His Pro Glu Gly Met Cys Pro Pro Pro Ser Gly Cys Gly Thr Arg
        35                  40                  45
Asp Cys Leu Trp Thr Asp Tyr Phe Ala Gly Ile Arg Ile Glu Pro Pro
    50                  55                  60
Asn Pro Leu Pro Arg Arg Leu Ala Val Ser Gly Ser Trp Phe Ser Pro
65                  70                  75                  80
Trp Arg Pro Glu Leu Pro Leu Val Ser Thr Thr Gly Arg Ala Arg Tyr
                85                  90                  95
Phe Arg Cys Ala His Gln Pro Pro Arg His Gln Glu Met Gln Leu His
            100                 105                 110
Arg Val Asp Pro Val Gly Arg Ile Ile Ala Ser Gln Ala Ala Leu Ala
        115                 120                 125
Leu Lys Pro Val Leu Leu Glu Leu Gly Gly Lys Asn Phe Ala Val Val
    130                 135                 140
Leu Asp Asp Ala Asp Leu Asp Leu Ala Ala Arg Glu Ile Thr Lys Gly
145                 150                 155                 160
Ala Phe Leu Asn Val Ser Pro His Ile
                165
```

<210> 25535
<211> 203
<212> PRT
<213> A.fumigatus

<400> 25535

```
Leu Gly Ser Val Arg Thr Thr Glu Leu Thr Leu Met Gln Asn Gly Gln
1               5                   10                  15
Ile Cys Met Ser Thr Asp Leu Val Leu Val Thr Thr Ala Val Ala Ser
            20                  25                  30
Ala Leu Glu Asp Lys Ile Leu Ala Ile Leu Gln Asp Ile Asn Thr Pro
        35                  40                  45
Ser Val Leu Ile Ser Pro Ala Ala Lys Ser Lys Val Glu Met Leu Val
    50                  55                  60
Ser Asp Ala His Asp Arg Gly Ala Gln Ile His Ala His Pro Met Gly
65                  70                  75                  80
His Asp Ala Ser Pro Arg Ser Phe Pro Pro Thr Val Val Thr Gly Leu
                85                  90                  95
Thr Pro Glu Met Lys Leu Tyr Glu Ile Glu Ser Phe Gly Pro Val Val
            100                 105                 110
Gly Ile Met Ala Val Glu Arg Glu Glu Gln Phe Met Ala Ile Ile Glu
        115                 120                 125
Ala Ala Lys Tyr Gly Leu Ser Ser Ser Ile Phe Ser Arg Asn His Tyr
    130                 135                 140
Arg Ser Leu Asp Leu Ala Gly Thr Ile Lys Ala Gly Ala Val His Ile
145                 150                 155                 160
Asn Ser Met Thr Val His Asp Glu Pro Thr Leu Pro His Gly Gly Tyr
                165                 170                 175
Gly Asp Ser Gly Trp Gly Arg Phe Gly Ala Arg Trp Gly Leu Glu Glu
            180                 185                 190
Phe Ile Gln Thr Lys Ile Val Thr Leu His Pro
        195                 200
```

<210> 25536
<211> 210
<212> PRT

<213> A.fumigatus

<400> 25536
Thr Pro Gly Tyr Phe Gly Glu Thr Leu Thr His Gln Gly Asp Gln Val
1 5 10 15
Leu Arg Asn Arg Ala Lys Glu Ile Lys Arg Val Cys Asp Glu Glu Ile
20 25 30
His Cys Gly Pro Arg Trp Ala Glu Ile Ile Thr Asn Asp Ala Ile Gly
35 40 45
Leu Ile Glu Glu Tyr Gly Ala Leu Thr Thr Ser Ile Ala Thr Gly Ser
50 55 60
Leu Pro Phe Ile Gln His Gly His Gly Leu Val Leu Lys Glu Pro Leu
65 70 75 80
Gly Val Val Leu Gly Ile Ala Pro Trp Asn Ala Pro Met Val Leu Gly
85 90 95
Leu Arg Ala Val Val Ala Pro Ile Ala Ala Gly Asn Val Ala Ile Leu
100 105 110
Lys Ala Cys Ala Leu Arg Gln Ala Asp Ala Glu Arg Glu Ile Val Ser
115 120 125
Gly Leu Thr Ile Ser Gln Gly Ser Glu Leu Ser Pro Gln Thr His Tyr
130 135 140
Leu Val Ala Ser Leu Phe Gln Glu Ala Gly Phe Pro Pro Gly Val Leu
145 150 155 160
Asn Phe Leu Leu Tyr Arg Pro Gln Asp Ala Pro Asp Ile Phe Asp Val
165 170 175
Leu Ile Asn His Pro Ala Ile Lys Lys Cys Asn Phe Thr Gly Ser Thr
180 185 190
Gln Ser Gly Val Ser Ser Pro Arg Lys Pro Pro Trp Pro Ser Ser Pro
195 200 205
Cys Cys
210

<210> 25537
<211> 205
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(7)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25537
Arg Arg Phe Xaa Tyr Ala Xaa Pro Ser Ile Pro Val Leu Lys Thr Pro
1 5 10 15
Ile Pro Pro Pro Pro Arg Gln Asp Leu Lys Thr Gly Leu Thr Pro Arg
20 25 30
Gly Ser Leu Glu Pro Ser Glu Ser Pro Pro Gly Pro Gly Pro Trp Glu
35 40 45
Tyr Pro Leu Trp Met Gln Gly Asp Asp Phe Arg Leu Asp Glu Leu Leu
50 55 60
Gln Pro Pro Ala Ser Ala Lys Pro Thr Pro Thr Thr Ile Pro Ile Ala
65 70 75 80
Ser Met Arg Gln Ser Arg Leu Val Met His Gly His Gly Ile Asn Val
85 90 95
Asp Arg Thr Arg Leu Asp Ser Ala Ser Glu Ile Lys Gly Ala Val Val

```
            100                 105                 110
Ile Pro Gly Lys Tyr Arg Ala Arg Gln Ser Val Leu Gly Arg Leu Asp
        115                 120                 125
Asn Gly His Lys Leu Phe Phe Pro Leu Asn Arg His Asp Ala Tyr His
    130                 135                 140
Arg Pro Glu Gly Leu Asp Phe Val Gln Leu His Leu Arg Arg Gln Pro
145                 150                 155                 160
Arg Tyr His Cys Gly Arg Glu Ala Pro Arg Arg Gly Val Val Pro His
                165                 170                 175
Gly Val Cys Met Asp Leu Ser Ala Pro Ile Val Arg Val Gly Tyr Glu
            180                 185                 190
His Leu Asp Leu Gly Phe Gly Cys Arg Gly Asp Glu His
        195                 200                 205
```

<210> 25538
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25538

```
Phe Arg Glu Asn Ile Glu Leu Asp Asn Pro Tyr Leu Ala Ala Ser Ile
1               5                   10                  15
Met Ala Ile Asn Cys Ser Ser Leu Ser Thr Ala Met Met Pro Thr Thr
            20                  25                  30
Gly Pro Lys Asp Ser Ile Ser Tyr Ser Phe Ile Ser Gly Val Asn Pro
        35                  40                  45
Val Thr Thr Val Gly Gly Lys Leu Arg Gly Glu Ala Ser Cys Pro Met
    50                  55                  60
Gly Cys Ala Trp Ile
65
```

<210> 25539
<211> 574
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (458)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25539

```
Ser Leu Asn Cys Gly Ser Ala His Pro Arg Val Lys Thr Ile Tyr Thr
1               5                   10                  15
Ala Phe Ser Gln Gly Ser His Gln Ala Tyr Ser Pro Leu Asn Ser His
            20                  25                  30
Glu Ser Gln Glu Ile Ile Leu Leu Tyr Pro Asp Lys Ala Leu Gln Thr
        35                  40                  45
Ser Lys Leu Val Phe Ala Pro Cys Gly Thr Pro Pro Gly Ile Lys Phe
    50                  55                  60
Val Ala Glu Gly Leu Ala Arg Lys Ala Ala Leu Ser Thr Thr Ser Asn
65                  70                  75                  80
Ser Leu Leu Ser Leu Ala Lys Ile Tyr Gln Asp Gly Met Ser Asn Ile
                85                  90                  95
Ser Gly Ser Gly Ile Pro Lys Lys Ser Pro Gly Val Arg Asp Ile Leu
            100                 105                 110
```

```
Ala Leu Tyr Tyr Leu Ser Leu Ser Leu Gln Pro Ser Pro Ser Thr Ala
        115                 120                 125
Asn Asn Val Gly Ile Leu Leu Ala Gly Ile Gln Asn Asn Ala Ala Gly
    130                 135                 140
Lys Ser Leu Pro Arg Ser Ser Gly Glu Ala Gln His Pro Glu Val Pro
145                 150                 155                 160
Gly Val Val Pro Gly Ser Gly Ile Ser Leu Ala Leu Ala Tyr Tyr Asn
                165                 170                 175
Tyr Gly Leu His Leu Asp Ser Arg His Ala His Leu Tyr Thr Asn Leu
            180                 185                 190
Gly Ser Leu Leu Lys Asp Ile Gly Gln Leu Gln Ala Ala Ile Arg Met
        195                 200                 205
Tyr Glu Gln Ala Val Gln Cys Asp Gly Asn Phe Asp Ile Ala Leu Ala
    210                 215                 220
Asn Leu Ala Asn Ala Val Lys Asp Ala Gly Arg Val Asn Asp Ala Ile
225                 230                 235                 240
Thr Tyr Tyr Lys Arg Ala Val Lys Val Asn Pro Glu Phe Ala Glu Ala
                245                 250                 255
Val Cys Gly Leu Ala Asn Ala Leu Asn Ser Val Cys Asn Trp Val Gly
            260                 265                 270
Arg Gly Gly Ile Ala Asn Gly Tyr Gly Phe Arg Asp Arg Trp His Val
        275                 280                 285
Thr Glu Gln Gly Met Leu Arg Asp Ala Ser Thr Ser Glu Thr Gly Ser
    290                 295                 300
Gly Trp Ile Gln Arg Val Val Asp Ile Val Asn Arg Gln Leu Lys Glu
305                 310                 315                 320
Gly Glu Ser Trp Gly Leu Gly Leu Leu Ser Pro Asn Thr Ile Glu Gln
                325                 330                 335
Leu Cys Val Gln Ile Ala Pro Ala Leu Glu Ser Arg Arg Ser Ala Cys
            340                 345                 350
Gly Ser Leu Ala Thr Ile Leu Gln Ser Trp Ala Gly Gln Arg Trp Glu
        355                 360                 365
Gly Ser Arg Ile Val Lys Leu Ile Glu Arg Ala Asn Arg Ser Ile Thr
    370                 375                 380
Trp Gln Trp Tyr Gln Asp Arg Tyr Ile Tyr Gly Lys Glu Tyr Pro Leu
385                 390                 395                 400
Thr Lys Tyr Gln Arg Pro Gln Leu Pro Ser Gly Leu Thr Val Pro Asn
                405                 410                 415
Ala Pro Thr Val Leu Pro Phe His Thr Phe Thr Cys Pro Leu Ser Ala
            420                 425                 430
Lys Gln Ile Arg Gln Ile Ser Gln Arg Asn Gly Leu Arg Ile Ser Cys
        435                 440                 445
Ser Thr Leu Arg Ser Pro Trp Leu Pro Xaa Thr Val Tyr Pro Pro Pro
    450                 455                 460
Pro Pro Pro Asn Pro Tyr Leu Lys Val Gly Tyr Val Ser Ser Asp Phe
465                 470                 475                 480
Asn Asn His Pro Leu Ala His Leu Met Gln Ser Val Phe Gly Leu His
                485                 490                 495
Asn Pro Ser Arg Val Lys Ala Tyr Cys Tyr Ala Thr Thr Ala Ser Asp
            500                 505                 510
Lys Ser Val His Arg Gln Gln Ile Glu Lys Glu Ala Pro Val Phe His
        515                 520                 525
Asp Ala Ser Cys Trp Pro Ile Glu Arg Leu Val Lys Gln Ile Val Asp
    530                 535                 540
Asp Gly Ile His Ile Leu Val Asn Leu Asn Gly Tyr Thr Arg Gly Ala
545                 550                 555                 560
```

```
Arg Asn Asp Leu His Gln Gln Gly Glu Ala His Ala Trp Glu
                565                 570

<210> 25540
<211> 269
<212> PRT
<213> A.fumigatus

<400> 25540
Val Arg Glu Val Asp Arg His Arg Ser Asn Glu Gly Pro Gly Phe Arg
1               5                  10                  15
Arg Ser Ser Pro Ala Trp Gly Glu Gly Arg Ser Gln Asp Gly Ser Arg
            20                  25                  30
Pro Pro Arg Arg Glu Phe Gln Glu Arg Thr Pro Thr Ala Ala Glu Leu
        35                  40                  45
Asp Asn Ser Trp Arg Ala Arg Met Arg Pro Asp Gln Pro Pro Ala Lys
    50                  55                  60
Glu Pro Ser Asn Pro Arg Ser Pro Ala Asp Thr Pro Ala Ser Pro Ala
65                  70                  75                  80
Ala Pro Ala Cys Arg Arg Lys Leu Asn Leu Gln Lys Arg Thr Val Thr
                85                  90                  95
Asp Thr Pro Ser Ser Pro Ala Pro Ser Thr Asp Ser Lys Ala Ser Pro
            100                 105                 110
Phe Gly Gly Ala Arg Pro Ile Asp Thr Ala Ala Arg Glu Arg Gln Val
        115                 120                 125
Glu Glu Arg Arg Gln Leu Ala Leu Arg Gln Lys Lys Glu Ala Glu Glu
    130                 135                 140
Lys Ala Lys Ala Glu Lys Ala Glu Lys Gln Arg Gln Ser Lys Glu Gln
145                 150                 155                 160
Ala Lys Ser Glu Lys Ser Val Pro Ala Ala Asp Pro Asn Gly Lys Asp
                165                 170                 175
Ser Met Asp Ile Pro Gln Gly Gly Lys Asn Phe Glu Ile Leu Arg Gln
            180                 185                 190
Ala Gly Glu Asp Glu Gly Gly Ala Ala Glu Gln Glu Gln Pro Glu Glu
        195                 200                 205
Ala Pro Ala Ala Ala Ala Gly Asp Glu Ala Ser Lys Gln Ala Pro Ala
    210                 215                 220
Ser Lys Thr Asn Gly Asn Trp Arg Ser Gly Gly Pro Thr Gln Pro Ala
225                 230                 235                 240
Glu Ala Ala Ala Asp Glu Glu Gly Trp Ser Thr Val Ser Ser Arg Gln
                245                 250                 255
Arg Asn Asn Arg Arg Gly Gln Ser Gly Arg Thr Phe Ala
            260                 265

<210> 25541
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25541
Asn Pro Ala Ile Leu Pro Pro Gly Pro Leu Arg Arg Met Gln Glu His
1               5                  10                  15
Tyr Leu Ala Gly Ser Leu Thr Ile Tyr Arg His Val Thr Leu Leu Ile
            20                  25                  30
Ser Val Phe Arg Tyr Leu Leu Ser Tyr Val Thr Phe Asn Tyr Tyr Ser
        35                  40                  45
```

```
Ser Ala Ala Gln Val Thr Tyr Arg Leu Ala Phe Ile Ala Ala Ala Gly
    50                  55                  60
Thr Tyr Gly Ile Val Val Tyr Lys Ala His Ile Ala Arg Gly Arg Leu
65                  70                  75                  80
Gln Gly Ser Val Pro Ser
                85
```

<210> 25542
<211> 463
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (452)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25542

```
Tyr Ala Met Arg Val Ser Phe Gln Pro Arg Val Val Lys Thr Ile Thr
1               5                  10                  15
Asp Phe Val Arg Tyr Arg Asn Ala Thr Arg Asp Met Asn Glu Arg Tyr
            20                  25                  30
Pro Asp Ala Thr Pro Glu Glu Val Ala Arg Glu Asp Val Cys Ile Ile
        35                  40                  45
Cys Arg Glu Glu Met Ala His Trp Gln Glu Pro Ala Gly Val Gly Glu
    50                  55                  60
Gly Gly Ala Ala Pro Ala Gln Pro Arg Pro Arg Ile Pro Glu Arg Leu
65                  70                  75                  80
Arg Pro Lys Lys Leu Pro Cys Gly His Ile Leu His Phe Ser Cys Leu
                85                  90                  95
Arg Ser Trp Leu Glu Arg Gln Gln Asn Cys Pro Thr Cys Arg Arg Pro
            100                 105                 110
Val Met Ala Pro Thr Arg Gly Arg Asp Pro Leu Pro Ala Asn Ile Asn
        115                 120                 125
Leu Gly Gln Gly Asn Gly Gly Ala Gly Pro Gln Pro Asn Val Pro Ala
    130                 135                 140
Gly Asn Gln Pro Phe Gly Gln Asn Gly Pro Ala Asp Asn Leu Pro Arg
145                 150                 155                 160
Ala Arg Ile Phe Gln Phe Gly Pro Phe Arg Ile Gly Phe Gly Ala Gly
                165                 170                 175
Arg Gly Asp Leu Phe Arg Asn Phe His Gln Gln Ile His Gln Gly Asn
            180                 185                 190
Ala Pro Ala Gln Gln Ala Asn Asn Gly Ile Pro Pro Gly Ala Arg Gln
        195                 200                 205
Ile Gly Phe Gly Leu Gly Phe Gly Arg Pro Thr Pro Ala Pro Val Pro
    210                 215                 220
Gln Ala Leu Pro Thr Asn Thr Pro Ser Asn Phe Val Gln Met Gln Asn
225                 230                 235                 240
Gln Leu His Gln Met Glu Leu Gln Ile Met Gln Glu Ile Asn Asn Leu
                245                 250                 255
Arg Val Thr Ala Glu Gln Leu His Tyr Val Arg Leu Leu Gln Ala Glu
            260                 265                 270
Leu Gln Arg Leu Arg Asn Pro Pro Ala Ala Ser Ser Asp Pro Asn Thr
        275                 280                 285
Thr Ile Thr Pro Ala Ser Thr Phe Gln Pro Ser Ser Ser Leu Ser Ala
    290                 295                 300
```

```
Thr Leu Arg Arg Gln Phe Thr Ser Asp Pro Gln Ala Ser Ala Ile Pro
305                 310                 315                 320
Ser Gly Asp Ser Arg Leu Pro Glu Gly Leu Ser Leu Pro Glu Gly Trp
                325                 330                 335
Ser Leu Ile Pro Leu Gln Ser Ala Gly Gln Gly Pro Ser Gly Ile Ser
            340                 345                 350
Ser Pro Val Pro Thr Thr Ala Pro Glu Pro Ile Pro Thr Val Gln Val
        355                 360                 365
Arg Glu Gly Pro Ser Val Thr Glu Asn Ser Ala Ser Ala Ala Gly Met
    370                 375                 380
Asn Gly Glu Ser Ser Ser Thr Val Asp Ala Ala Arg Ser Pro Thr Ser
385                 390                 395                 400
Ser Leu Pro Asp Trp Gly Ser Glu Thr Pro Thr Ala Ala Ala His Ser
                405                 410                 415
Tyr Ile Glu Ser Ser Pro Gln Asn Leu Asp Lys Glu Leu Phe Gly Lys
            420                 425                 430
Pro Ser Glu Thr Lys Glu Ser Ser Ala Trp Asp Asp Glu Ala Pro Asn
        435                 440                 445
Thr Asp Leu Xaa Tyr Thr Pro Gly Gln Lys His Ile Val Thr Pro
    450                 455                 460
```

<210> 25543
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25543

```
Trp Leu Thr Gly Lys Ala Gly Asp Cys Thr Asn Ser Ala Gly Thr Leu
1               5                   10                  15
Ser Phe Ser Glu Ile Glu Ala Ile Leu Lys Asp Ala Ser Arg Asn Ala
            20                  25                  30
Thr Gln Thr Tyr Asp Glu Ala Ser Ser Val Gln Ile Val Thr Phe Asp
        35                  40                  45
Gly Asn Gln Trp Val Ser Tyr Asp Asn Trp Ala Ser Phe Gln Ala Lys
    50                  55                  60
Leu Asp Tyr Ala Asn Ser His Cys Ile Gly Gly
65                  70                  75
```

<210> 25544
<211> 254
<212> PRT
<213> A.fumigatus

<400> 25544

```
Tyr Val Pro Arg Pro Gly Thr Ser His Asn Pro Gly Trp Gly Lys Phe
1               5                   10                  15
Ala Ser Ile Asp Gln His Phe Cys Val Leu Asp Cys Glu Thr Asn Thr
            20                  25                  30
Phe Ile Ala Asp His Glu Leu Ser Arg Ala Asn Gln Leu His Pro Pro
        35                  40                  45
Arg Pro Arg Met Gly Gly Cys Val Trp Ser Leu Gly Asp Ser Pro Asp
    50                  55                  60
Ala Trp Val Val Glu Ala Asp Thr Gly Arg Pro Val Gln Pro Leu Arg
65                  70                  75                  80
Gly His Arg Asp Phe Gly Phe Ala Cys Ala Trp Ser Pro Asp Met Arg
                85                  90                  95
```

```
His Ile Ala Thr Ser Asn Gln Asp Lys Thr Val Ile Ile Trp Asp Ala
            100                 105                 110
Arg Thr Trp Arg Ile Leu Gln Thr Ile Glu Ser Asp Val Ala Gly Tyr
        115                 120                 125
Arg Ser Val Arg Phe Ser Pro Val Gly Gly Gly Pro Arg Thr Leu Leu
    130                 135                 140
Leu Ala Glu Pro Ala Asp Arg Ile Ala Ile Val Asn Ala Gln Thr Tyr
145                 150                 155                 160
Gln Thr Arg Gln Val His Asp Phe Phe Gly Glu Ile Gly Gly Ala Asp
                165                 170                 175
Phe Ser Pro Glu Gly Ser Thr Ile Trp Val Ala Asn Thr Asp Glu His
            180                 185                 190
Phe Gly Gly Phe Met Glu Phe Asp Arg Arg Gln Trp Gly Gln Pro Tyr
        195                 200                 205
Gly Pro Arg Gly Leu Pro Asn Glu Trp Ile Arg Glu Ala Asp Leu Asp
    210                 215                 220
Glu Asp Glu Arg Cys Val Leu Ser Glu Arg Glu Arg Gln Met Arg Phe
225                 230                 235                 240
Trp Trp Asn Leu Ser Asp Glu Glu His Glu Ala Leu Leu Leu
                245                 250
```

<210> 25545
<211> 222
<212> PRT
<213> A.fumigatus

<400> 25545

```
Gln Phe Cys Ile Gly Ala Pro Val Tyr Leu Ala Ala Val Leu Glu Tyr
1               5                   10                  15
Leu Ala Ala Glu Ile Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp Asn
            20                  25                  30
Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln Leu Ala Ile Arg Asn
        35                  40                  45
Asp Glu Glu Leu Asn Lys Leu Leu Gly His Val Thr Ile Ala Gln Gly
    50                  55                  60
Gly Val Leu Pro Asn Ile His Gln Ser Arg Phe Arg Thr Leu Phe Ser
65                  70                  75                  80
Ser Ser Leu Tyr Phe Leu Thr Asn Phe Gln Thr Phe Tyr Gln Arg Arg
                85                  90                  95
Leu Leu Arg Val Glu Arg Val Leu Ala Arg Ser Phe Asn Cys Pro Ile
            100                 105                 110
Phe Leu Ser Phe Leu Phe Gly Phe Leu Asn Arg Arg Ala Leu Val Ser
        115                 120                 125
His Asp Val Ile Thr Gly Phe Trp Thr Gly His Asn Tyr Gly Ser Val
    130                 135                 140
Phe His Ala Phe Thr Tyr Gly Cys Thr Leu Cys Leu Arg Ala Leu Asn
145                 150                 155                 160
Asp Thr Asp Ser Phe Leu Asn Glu Ile Cys Leu Ser Glu Thr Met Gly
                165                 170                 175
Ile Leu Val Asn Leu Thr Leu Ser Arg His Lys Gly Leu Tyr Leu Gln
            180                 185                 190
Ser Phe Leu Gln Tyr Thr Thr Lys Ala Phe Leu His Phe Asn Ile Asn
        195                 200                 205
Val Gln Ser Asn Val Gln Asp Arg Ser Phe Glu Val Arg Tyr
    210                 215                 220
```

<210> 25546
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25546
Met Leu Leu Asn Ile Gln Met Pro Thr Lys Leu Gly Arg Arg Thr Arg
1 5 10 15
Ser Met Tyr Leu Arg Gln Leu Asp Glu Thr Thr Met Ser Ser Leu Leu
20 25 30
Glu Asp Arg His Gly Val Leu Ile Thr Tyr Phe Glu Thr Ser Val Leu
35 40 45
Asp Val Ala Leu Asn Ile Tyr Val Lys Val Gln Lys Cys Phe Ser Gly
50 55 60
Val Leu
65

<210> 25547
<211> 174
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25547
Leu Gly Asn Ser Glu Xaa Trp Gly Thr Gln Asp Glu Tyr Thr Ser Ser
1 5 10 15
Glu Ser Ala Asp Glu Asp Glu Glu Gly Asn Asp Pro Asp Asp Asn Ala
20 25 30
Asp Glu Glu His Lys Ala Glu Ser Asp Leu Ala Asp Lys Gly Lys Ala
35 40 45
Glu Val Ser Pro Pro Gly Ser Pro Ser Gln Arg Ser Glu Gln Thr Thr
50 55 60
Gln Ser Ser Gly Ser Gln Ala Ala Ser Gln Tyr Leu Pro Phe Ser Ile
65 70 75 80
Leu Ser Pro Asp Pro His Ser Leu Glu Ala Gly Asp Glu Pro Val Gly
85 90 95
Arg Lys Phe Pro Trp Gly Phe Ala Asn Pro Tyr Asp Pro Glu His Cys
100 105 110
Asp Phe Val Lys Leu Lys Asp Ser Val Phe Thr Asp Trp Arg Thr Glu
115 120 125
Leu Arg Glu Ala Ser Arg Val Val Trp Tyr Glu Arg Trp Arg Thr Ser
130 135 140
Arg Leu Asn Arg Asn Gly Ile Ser Ala Ser Pro Met Gln Lys Ile Tyr
145 150 155 160
Ser Gly Arg Met Gly Pro Ser His Asp Gly Arg Arg Thr Arg
165 170

<210> 25548
<211> 181
<212> PRT
<213> A.fumigatus

<400> 25548
Ala Leu Arg Pro Ser Trp Pro Ser Thr Val Ser Leu Asp Trp Val Phe
1 5 10 15
Cys Ser Ser Phe Pro Ser Asn Ser Val Ala Asn Arg Met Ala Ala Asn
20 25 30
Cys Gly Ser Ile Ser Ala Ile Thr Ile Ile Arg Ile Arg Val Leu Thr
35 40 45
Thr Val Asp Phe Phe Asp Leu Pro Tyr Ser Met Ile Trp Ala Ala Phe
50 55 60
Trp Ser Val Thr Glu Pro Ala Leu Ala Asn Leu Asn Ala Cys Val Pro
65 70 75 80
Met Leu Arg Pro Val Phe Lys Ala Ala Phe Pro Thr Leu Phe Ala Ser
85 90 95
Arg Lys Met Tyr Ser Thr Gln Pro Gly Ser Gly Ala Ser Gly Ile Lys
100 105 110
Asn Lys Ala Phe Lys Arg Met Asn Glu Val Glu Ser Asp Leu Gln Leu
115 120 125
Thr Asn Leu Thr Gln Leu Glu Pro Val Arg Thr Ser Arg Glu Gly Arg
130 135 140
Ile Ser Glu His Gly Asp Asp Gly Ser His Asp Asp Arg Ser Gln Asp
145 150 155 160
Gly Arg Ser Gln Asp Glu Ser Thr His Val Pro Arg Ser Val Ile Val
165 170 175
Asn Arg Pro Trp Thr
180

<210> 25549
<211> 131
<212> PRT
<213> A.fumigatus

<400> 25549
Ala Arg Phe Leu Pro Ala Pro Ser Arg Glu Asp Asn Ala Met Val Leu
1 5 10 15
Ala Lys Leu Ser Tyr Leu Phe Phe Tyr Leu Arg Ile Phe Val Thr Lys
20 25 30
Gly Phe Arg Ile Ala Ala Trp Val Cys Met Gly Cys Ala Cys Ala Tyr
35 40 45
Trp Thr Gly Ser Met Leu Gln Ile Phe Phe Ile Cys Gln Pro Phe Gln
50 55 60
Lys Asn Trp Asn Pro Thr Leu Pro Gly His Cys Ala Ser Gln Asn Val
65 70 75 80
Ala Phe Ser Thr Ile Gly Ala Phe Asn Leu Ile Thr Asp Val Met Ile
85 90 95
Met Val Leu Pro Leu His Phe Ile Trp Lys Leu Gln Met Ser Thr Ala
100 105 110
Thr Lys Leu Ala Leu Tyr Gly Ile Phe Gly Leu Gly Leu Leu Phe Val
115 120 125
Val Pro Phe
130

<210> 25550
<211> 270
<212> PRT
<213> A.fumigatus

<400> 25550
Arg Thr Pro Phe Ile Val Leu Cys Ile Tyr Val Ser Ile His Leu Phe
1 5 10 15
Gly Val Leu Ala Asp Ile Cys Thr Gln Phe Ser Ser Leu Glu Thr Ser
20 25 30
Phe Ala Ser His Trp Leu His Glu Thr Thr Leu Pro Leu Ala Asn Leu
35 40 45
Cys Ile Arg Leu Pro Gln Thr Phe Gln Arg Arg Pro Phe Ser Gln Ser
50 55 60
Leu Tyr Phe Phe Phe Leu Leu Asp Cys Cys Ala Arg Val Ala Pro Leu
65 70 75 80
Pro Met Glu Val Ala Ala Ser Arg Asp Ser Ala Pro Val Gly Pro Pro
85 90 95
Thr Gly Pro Asp Ala Thr Ile Thr Asn Gly Asp Gln Asp Leu Leu Leu
100 105 110
Asp Asp Ser Leu Met Asp Asp Gly Arg Ser Ser Ser Leu Ser Asp Ile
115 120 125
Asp Asp Val Leu Asp Asn Glu Pro Ser Asp Tyr Glu Glu Ser Pro Lys
130 135 140
Pro Glu Lys Leu Ala Ala Glu Asn Asp Ser Glu Ala Glu Thr Glu Arg
145 150 155 160
Ile Glu Asp Ser Pro Asn His Phe Arg Arg Thr Asn Ile Val Val Ser
165 170 175
Ser Tyr Gly Pro Ser Pro Ser Lys Leu Ala Gln Ser Thr Thr Tyr Asp
180 185 190
Asp Ala Val Asp Gly Asp Asp Gln Ile Glu Asp Ser Pro Ser Lys Pro
195 200 205
Arg Ser Lys Pro Asn Gly Ile Leu Glu Ser Ala Glu Asp Ile Leu Gly
210 215 220
Leu Glu Asp Ser Thr Leu Ser Glu Ser Tyr Gly Lys Arg Ser Ala Lys
225 230 235 240
Arg Pro Glu Ser Gly Ala Asp Val Glu Gly Glu Thr Gly Gly Arg Ser
245 250 255
Asp Pro Pro Gln Lys Thr Arg Arg Val Arg Glu Lys Val Asn
260 265 270

<210> 25551
<211> 105
<212> PRT
<213> A.fumigatus

<400> 25551
Ser Phe Leu Tyr Thr Ile Thr Glu Met Arg Leu Pro Cys Ala Pro Ser
1 5 10 15
Leu Ala Leu Arg Ala Ala Arg Thr Pro Leu Ala Phe Ala Arg Asn Gly
20 25 30
Gln Lys His Ser Leu His Thr Gly Thr Tyr Asn Ala Ala Val Ile Gly
35 40 45
Gly Gly Ile Thr Gly Leu Ala Thr Ala Phe Arg Leu Ser Gln Asp Pro
50 55 60
Lys Cys Thr His Ile Thr Leu Tyr Glu Lys Gln Gln Arg Val Gly Gly
65 70 75 80
Trp Met Met Ser Glu Thr Ile Pro Leu Gly Asp Asp Asp Gly Asn Leu
85 90 95
His His Gly Val Glu Gly Pro Arg Leu
100 105

<210> 25552
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25552
Leu Asn Ile Ser Glu Arg Ala Asp Gly Tyr Ser Cys Ser Leu Ile Asp
1 5 10 15
Glu Asn Leu Arg Val Thr His Phe Glu Thr Val His Asp Tyr Leu Thr
20 25 30
Arg Val Tyr Leu Ile Tyr Lys Thr Thr Asn Met Met Met Phe Cys His
35 40 45
Tyr Thr Ala Pro Met Asp Glu Leu Val Arg Asn Gln Gln Thr Pro Phe
50 55 60
Gln Pro Ala Ile Val His Lys
65 70

<210> 25553
<211> 93
<212> PRT
<213> A.fumigatus

<400> 25553
Gln Cys Leu Phe Val Leu Ser Leu Cys Lys Leu Thr Val Pro Gln Phe
1 5 10 15
Pro Lys Ser Gln Pro Leu Ile Lys Glu Lys Trp Tyr Leu Thr Ile Arg
20 25 30
Ala Leu Leu Met Gln Asn His Glu Val Lys Glu Val Met Ser His Ala
35 40 45
Ala Tyr Leu Cys Leu Phe Ser Met Met Cys Ile Ile Met Ile Ala Leu
50 55 60
Gln Val Thr Asp Val Leu Cys Thr Tyr Gln Gly Arg Ser Phe Cys Asp
65 70 75 80
Val Glu Val Thr Asn Val Cys Ser Gly Cys Val Glu Ile
85 90

<210> 25554
<211> 212
<212> PRT
<213> A.fumigatus

<400> 25554
Gln Leu Ser Ser Ser Tyr Ser Glu Ser Ile Ile Arg Asp Ser Arg Val
1 5 10 15
Leu Arg Phe His Asp Ser Tyr Leu Arg Ser Gly Ala Met Asn Tyr Pro
20 25 30
Pro Ser His Asn Gly Gln Tyr Pro Pro Gln Tyr Leu Gln Gln Pro Gln
35 40 45
Gln Leu Leu Tyr Asn Asn Ala Asp Ser Asn Val Ser Pro Tyr Glu Tyr
50 55 60
Gly Lys Pro Val Ala Tyr Pro Gln Thr Ile Ile Ser Pro Tyr Ser Ser
65 70 75 80
Tyr Gly Gln Ala Tyr Asn Ile Glu Gln His Gln His Gln Pro Gln Ser
85 90 95
His His Gln Gln Gln Pro Pro Gln Gln Gln Pro Gln Gln Gln Tyr Val

```
            100                 105                 110
Asn Pro Ser Asp Val Phe His Gln Pro Leu Leu Pro Pro Ala Ser Ser
        115                 120                 125
Ser Gln Leu Ala His Gly Ser Thr Gln Tyr Gly Ala Gln Pro Met Val
    130                 135                 140
Ser Val Ala Gly Asn Ser Asn Arg Ser Pro Ala Val Ala Ser Ala Ser
145                 150                 155                 160
Thr Ser Ala Gln Ser Thr Pro Ala Pro Ser Thr Gln Ser Ala Tyr Gln
                165                 170                 175
Thr Ala Pro Thr Leu Asn Pro Arg Asn Asn Val Phe Asn Gln Tyr Ser
            180                 185                 190
Gln Val Ala Leu Pro Ala Pro Ser Val Pro Ser Ser Asn Ser Val Ala
        195                 200                 205
Thr Ala Pro Ser
    210
```

<210> 25555
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25555

```
Arg Ser Leu Leu Leu Val Tyr Ser Val Ser Lys Leu Ala Val Tyr Leu
1               5                   10                  15
Lys Thr Asn Leu Leu Ala Asn Tyr Asn Phe Ile Phe Asn Leu Leu Asp
            20                  25                  30
Arg Leu Thr Leu Asn Lys Ala Thr Ile Tyr Ile Tyr Ile Val Asn Tyr
        35                  40                  45
Lys Phe Ser Phe Ile Lys Val Cys Asn Lys Thr Pro Thr Leu Ile Ile
    50                  55                  60
Val Thr Tyr Tyr Thr Tyr Ile Gly Ile Ile Ser Asn Thr Asn Phe Ile
65                  70                  75                  80
Thr Ala Tyr
```

<210> 25556
<211> 131
<212> PRT
<213> A.fumigatus

<400> 25556

```
His Ser Thr Leu Ile Ile Met Ser Val Ser Ile Thr Ala Asp Thr Pro
1               5                   10                  15
Val Ala Ser Ala Thr Lys Pro Ala Asp Val Ser Leu Gly Ser Lys Gly
            20                  25                  30
Arg Met Pro Glu Phe Ser Leu Ala Gly Lys Val Val Leu Val Ser Gly
        35                  40                  45
Ala Ala Arg Gly Leu Gly Leu Thr Gln Ala Glu Ala Leu Leu Glu Ala
    50                  55                  60
Gly Ala Lys Val Tyr Gly Leu Asp Arg Leu Glu Glu Pro Val Ser Asn
65                  70                  75                  80
Pro Val Phe Tyr Asn Leu Ala His Gly Ala Ser Cys Leu Thr Met Leu
                85                  90                  95
Asp Gly Asp Ser Pro Pro Ser Ser Ser Arg Phe Lys Ser Glu Pro Arg
            100                 105                 110
Arg Asn Trp Gly Arg Ser Cys Thr Ile Val Val Leu Met Cys Val Thr
```

```
        115                 120                 125
Arg Asn Cys
    130

<210> 25557
<211> 138
<212> PRT
<213> A.fumigatus

<400> 25557
Ser Ala Glu Phe Phe Glu Ile Gln Lys Arg Ala Lys Glu Glu Leu Gly
1               5                  10                  15
Thr Glu Leu His Tyr Arg Arg Ile Asp Val Arg Asp Thr Glu Leu Leu
            20                  25                  30
Thr Ser Thr Val Glu Gln Ile Ala Asp Val Glu Gly Arg Met Asp Gly
        35                  40                  45
Leu Ile Ala Ala Ala Gly Ile Gln Gln Glu Thr Pro Ala Leu Glu Tyr
    50                  55                  60
Thr Ala Lys Asp Ala Asn Thr Met Phe Glu Val Asn Val Thr Gly Val
65                  70                  75                  80
Phe Met Thr Ala Gln Ala Val Ala Lys Gln Met Ile Arg Phe Gly Asn
                85                  90                  95
Gly Gly Ser Ile Ala Leu Ile Ala Ser Met Ser Gly Thr Val Ala Asn
            100                 105                 110
Arg Val Arg Phe Tyr Gln Phe Leu Ser Arg Val Glu Asn Gly Asp Pro
        115                 120                 125
Arg Val Ser Ser Leu Ser Pro Leu Leu Thr
    130                 135

<210> 25558
<211> 103
<212> PRT
<213> A.fumigatus

<400> 25558
Gly Leu Ile Cys Pro Ala Tyr Asn Ala Ser Lys Ala Ala Val Ile Gln
1               5                  10                  15
Leu Gly Arg Asn Leu Ala Met Glu Trp Gly Gln Tyr Gly Ile Arg Val
            20                  25                  30
Asn Thr Ile Ser Pro Gly Tyr Ile Val Thr Lys Met Val Glu Asp Leu
        35                  40                  45
Phe Val Gln Phe Pro Glu Arg Arg Glu Glu Trp Pro Lys His Asn Met
    50                  55                  60
Leu Gly Arg Leu Ser Thr Pro Asn Glu Tyr Arg Gly Ala Ala Val Phe
65                  70                  75                  80
Leu Leu Ser Asp Ala Ser Ser Phe Met Thr Gly Ser Asp Leu Arg Ile
                85                  90                  95
Asp Gly Gly His Cys Ala Trp
            100

<210> 25559
<211> 187
<212> PRT
<213> A.fumigatus

<400> 25559
```

```
Val Cys Leu Ser Leu Ser Ile Lys Gln Pro Trp Thr Asp Asn Cys Ser
1               5                  10                  15
Gly Arg Ile Ile Ala Thr Gly Ile Ile Glu Leu Pro Pro Ile Pro Ala
            20                  25                  30
Gly Gln Asn Gly Thr Ile Lys Leu Pro Ser Ala Pro Ala Thr Ala Ile
        35                  40                  45
Pro Gly Lys Val Trp Leu Thr Met Ser Phe Leu Gln Lys Gly Glu Thr
    50                  55                  60
Ala Trp Ala Gly Asn Asn Tyr Glu Val Ala Trp Tyr Gln Gln Cys Leu
65                  70                  75                  80
Lys Ser Ser Ser Pro Arg Phe Ser Leu Ala Val Leu Asp Glu Ala Leu
                85                  90                  95
Thr His Ser Ser Thr Lys Thr Ser His Arg Ile Ser Gly Ala Ser Phe
            100                 105                 110
Ser Leu Glu Phe Ser Arg Glu Thr Gly Ser Leu Tyr Ala Trp Thr Ala
        115                 120                 125
Gly Gly Leu Ser Leu Leu Asp Gln Ser Ser Ser Thr Gly Ala Ile Ser
    130                 135                 140
Pro Gly Phe Pro Arg Pro Pro Thr Asp Asn Asp Met Ser His Asp Leu
145                 150                 155                 160
Leu Glu Trp Arg Arg Phe Gly Leu Asp Thr Leu Thr Ser Gln Leu Arg
                165                 170                 175
Lys Met Gln Ser Ser Pro Leu Ala Gly Arg Gly
            180                 185
```

<210> 25560
<211> 446
<212> PRT
<213> A.fumigatus

<400> 25560

```
Ala Leu Pro Thr Pro Ala Met Gly Lys Gly Thr Arg Ser Asn Arg Ser
1               5                  10                  15
Thr Gly Ser Thr Val Gln Thr Glu Lys Tyr Ser Leu Gly Glu Lys Gln
            20                  25                  30
Asp Lys Leu Glu Gly Glu Leu Ser Phe Ser Thr Pro Asn Lys Trp Thr
        35                  40                  45
Ala Glu Thr Pro Asn Leu Tyr Asn Leu Cys Ile Ala Leu Tyr Val Asp
    50                  55                  60
Gly Ala Lys Asp Pro Val Gln Thr Ile Asn His Arg Val Gly Phe Arg
65                  70                  75                  80
Gln Val Glu Ile Lys Asn Gly Asn Ile Thr Val Asn Gly Val Pro Val
                85                  90                  95
Met Phe Arg Gly Val Asn Arg His Asp His His Pro Arg Phe Gly Arg
            100                 105                 110
Ala Val Pro Leu Ser Phe Leu Arg Glu Asp Leu Leu Ile Met Lys Arg
        115                 120                 125
His Asn Val Asn Ala Leu Arg Cys Ser His Tyr Pro Ser His Pro Arg
    130                 135                 140
Leu Tyr Glu Leu Cys Asp Glu Leu Gly Leu Trp Val Met Asp Glu Ala
145                 150                 155                 160
Asp Leu Glu Cys His Gly Phe Tyr Asp Ala Ile Ala Arg Pro Leu Asp
                165                 170                 175
Ile Pro Glu Ser Met Asp Tyr Glu Glu Arg Lys Lys Leu Thr Phe Asp
            180                 185                 190
Gln Ala Ala Gln Phe Thr Thr Asn Asn Pro Glu Trp Lys Glu Ala Tyr
```

```
        195                 200                 205
Val Asp Arg Met Val Gln Met Val Gln Arg Asp Lys Asn His Ser Cys
    210                 215                 220
Ile Val Ile Trp Ser Leu Gly Asn Glu Ala Phe Tyr Gly Ser Asn His
225                 230                 235                 240
Gln Ala Met Tyr Asp Tyr Val Lys Gln Val Asp Pro Ser Arg Pro Val
                245                 250                 255
His Tyr Glu Gly Asp Met Glu Ala Lys Thr Val Asp Met Tyr Ser Tyr
            260                 265                 270
Met Tyr Pro Ser Leu Glu Arg Leu Val Gly Phe Ala Thr Ala Glu Gly
        275                 280                 285
Asp Glu Phe Lys Lys Pro Ile Val Leu Cys Glu Tyr Ala His Ala Met
    290                 295                 300
Gly Asn Ala Pro Gly Gly Leu Glu Glu Tyr Met Glu Ala Phe Arg Ala
305                 310                 315                 320
His Arg Arg Leu Gln Gly Gly Trp Val Trp Glu Trp Ala Asn His Gly
                325                 330                 335
Leu Trp Asp Glu Lys Lys Gly Trp Tyr Gly Tyr Gly Gly Asp Phe Gly
            340                 345                 350
Asp Thr Pro His Asp Gly Asn Phe Val Leu Asp Gly Leu Leu Phe Ser
        355                 360                 365
Asp His Thr Pro Thr Pro Gly Ile Thr Glu Leu Lys Lys Ala Tyr Ala
    370                 375                 380
Pro Val Arg Val Trp Pro Gly Glu Asp Gly Thr Leu Val Val Ala Asn
385                 390                 395                 400
Asp Tyr Asn Phe Val Gly Leu Glu Gly Leu Gln Ala Ser Tyr Lys Ile
                405                 410                 415
Lys Val Leu Gly Asp Arg Tyr Val Cys Leu Tyr Pro Leu Asn Ser Leu
            420                 425                 430
Gly Leu Thr Thr Val Ala Gly Ala Leu Leu Pro Gln Ala Leu
        435                 440                 445
```

<210> 25561
<211> 105
<212> PRT
<213> A.fumigatus

<400> 25561

```
Asp Val Cys Gly Thr Trp Gln Trp Trp Gly Ser Lys Leu Arg Leu Val
1               5                   10                  15
Tyr Leu Ala Ser Ile Leu Phe Thr Phe Ala Ser Ala Glu Thr Leu Ala
            20                  25                  30
Thr Glu Tyr Leu Val Met Gly Val Trp Tyr Ile Asn Glu Glu Asn Val
        35                  40                  45
Tyr Val Leu Arg Ser Val Lys Gly Val Cys Ala Trp Ala Pro Gly Ser
    50                  55                  60
Gly Tyr Cys Ala Arg Ser Leu Leu Arg Ile Leu Asp Gln Lys Val Pro
65                  70                  75                  80
Asn Ile Cys Arg Ser Ile Ile Ala Arg Glu Pro Pro Pro Phe Leu Gly
                85                  90                  95
Glu Ala Ala Pro Ile Phe Phe Ser Leu
            100                 105
```

<210> 25562
<211> 87
<212> PRT

<213> A.fumigatus

<400> 25562
Ser Gly Ile Gly Gly Tyr Asp Arg Asp Gly Ala Gly Glu Ala Gly Gln
1 5 10 15
Gly Val Ala Val Glu Thr Ala Val Leu Thr Ser Ser Trp Met Cys Tyr
20 25 30
Val Ser Ile Tyr Lys Ser Leu Arg Thr Ser Leu Ser Glu Ile Ile Leu
35 40 45
Ser Leu Val Cys Ile Thr Gly Ser Val Lys Ser Tyr Gly Thr Arg Val
50 55 60
Arg Trp Ile Cys Ile His His Tyr Pro Leu Thr Trp Leu Tyr Thr Thr
65 70 75 80
Cys Gln His Ser Gln Gly Arg
85

<210> 25563
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25563
Leu Lys Ile His Arg Tyr Val Leu Pro Pro Thr His Gln Asp Val Gly
1 5 10 15
Asn Val Phe Gln Gly Asn Leu Ser Gly Cys Leu His Thr Ile Asp Trp
20 25 30
Gly Lys Gly Ser Tyr Gly His Trp Ile Gly Asp Ala Lys Ala Asp Asn
35 40 45
Val Leu Ile Trp Tyr His Gly Gln His His Tyr His Leu
50 55 60

<210> 25564
<211> 215
<212> PRT
<213> A.fumigatus

<400> 25564
Cys Asn Gln Phe Asp Lys Asp Ile Gly Gly Gly Phe Ala Leu Pro Ala
1 5 10 15
Asn Met Gly Tyr Phe Lys Phe Phe Ala Asn Leu Val Asp His Ala Ala
20 25 30
Thr His Asn Lys Ser Leu Ala Ile Phe Ser Leu Thr Tyr Thr Leu Ala
35 40 45
Pro Gln Ala Thr Tyr Pro Thr Gln Leu Arg Gln Ala Val Asp Cys Leu
50 55 60
Arg Tyr Ile Leu Ala Asn Thr Ser His Gln Pro Ser Arg Ile Phe Leu
65 70 75 80
Gly Gly Asp Ser Ala Gly Gly Asn Leu Val Gly Gly Val Leu Ser His
85 90 95
Leu Ala His Pro His Pro Gln Ile Asp Pro Leu Asn Val Ser Glu Asn
100 105 110
Leu Ala Gly Ala Val Met Ile Ala Pro Trp Thr Leu Met Asp Thr Asp
115 120 125
Phe Pro Asn Arg Lys Ile Asp Ser Ser Gly Asp Leu Ile Thr Pro Ala
130 135 140
Val Ala Gly Pro Trp Ala Arg Ala Tyr Leu Gly Thr Ala Thr Arg Asp

```
145                 150                 155                 160
Val Tyr Thr Asp Leu Ser Lys Ala Glu Ser Asp Trp Tyr Ser Thr Phe
                165                 170                 175
Pro Val Ala Asn Val Leu Ile Cys Ala Gly Gly Asn Glu Ile Leu Leu
            180                 185                 190
Pro Ile Ile Gln Asp Phe Ala Glu Lys Phe Lys Val Cys Thr Cys Leu
        195                 200                 205
Ile Leu Gly Val Ser Gly Cys
    210                 215
```

<210> 25565
<211> 378
<212> PRT
<213> A.fumigatus

<400> 25565

```
Ala Ile Leu Ile Thr Gln Lys Val Gly Asn Asp Phe Val Arg Gly Val
1               5                   10                  15
Phe Gly Gly Glu Arg Lys Arg Val Ser Ile Gly Met Leu Gln Pro Val
            20                  25                  30
Ser Leu Pro Phe Pro Lys Ala Ile Arg Glu Cys Ala Tyr Val Ser Thr
        35                  40                  45
Lys Ser Glu Met Ala Leu Ala Cys Thr Pro Leu Ala Ala Trp Asp Asn
    50                  55                  60
Ser Thr Arg Gly Leu Asp Ser Ala Thr Ala Leu Lys Phe Ile Glu Ser
65                  70                  75                  80
Leu Arg Leu Leu Ala Asp Leu Ala Gly Thr Ala His Ala Val Ala Ile
                85                  90                  95
Tyr Gln Ala Ser Gln Ser Ile Tyr Asp Leu Phe Asp Asn Val Thr Leu
            100                 105                 110
Leu Tyr Glu Gly Arg Gln Ile Phe Phe Gly Pro Thr Ser Thr Ala Lys
        115                 120                 125
Gly Phe Phe Glu Arg Gln Gly Trp Glu Cys Pro Pro Arg Gln Thr Thr
    130                 135                 140
Gly Asp Phe Leu Thr Ser Ile Thr Asn Pro Gln Glu Arg Arg Pro Arg
145                 150                 155                 160
Ala Gly Met Glu Lys Ile Val Pro His Thr Pro Glu Asp Phe Glu Lys
                165                 170                 175
Tyr Trp Leu Gln Ser Pro Glu Tyr Arg Arg Leu Gln Glu Gln Ile Glu
            180                 185                 190
Arg Phe Glu Thr Leu His Pro Pro Gly Asp Asp Glu Lys Ala Ala Ala
        195                 200                 205
His Phe Arg Lys Arg Lys Gln Gly Val Gln Ser Lys Ser Ser Arg Lys
    210                 215                 220
Gly Ser Pro Tyr Leu Ile Ser Val Pro Met Gln Ile Lys Leu Asn Thr
225                 230                 235                 240
Arg Arg Ala Tyr Gln Arg Leu Trp Asn Asp Ile Ser Ser Thr Leu Ser
                245                 250                 255
Thr Val Ile Gly Asn Val Val Met Ala Leu Ile Ile Gly Ser Val Phe
            260                 265                 270
Tyr Gly Thr Ala Asn Thr Thr Ala Gly Leu Ser Ser Arg Gly Ala Thr
        275                 280                 285
Leu Phe Phe Ala Val Leu Leu Asn Ala Leu Thr Ala Met Ser Glu Ile
    290                 295                 300
Asn Ser Leu Tyr Ser Gln Arg Pro Ile Val Glu Lys Gln Val Ser Tyr
305                 310                 315                 320
```

```
Ala Phe Tyr His Pro Ser Thr Glu Ala Ile Ala Gly Val Ile Ser Asp
                325                 330                 335
Ile Pro Val Lys Phe Val Leu Ala Val Val Phe Asn Ile Ile Leu Tyr
            340                 345                 350
Phe Leu Ala Asn Leu Arg Arg Val Cys Ile Thr Ile Leu His Pro Thr
        355                 360                 365
Ser Leu Ser Leu Ser Ser Ser Cys Leu Ser
    370                 375
```

<210> 25566
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25566
```
Ser Glu Lys Cys Ser Pro Leu Gln Arg Tyr Gln Tyr Leu Leu Asn His
1               5                   10                  15
Pro Leu Phe Gln Phe Leu Leu Thr Asn Gly Asp Phe Glu Gly Val Ser
            20                  25                  30
Gln Thr Arg Met Met Lys Glu Phe Lys Gly Glu Ile Val Tyr Asn Gln
        35                  40                  45
Glu Val Ser Leu Gln Glu Ser Cys Ser His Leu Arg Leu Arg
    50                  55                  60
```

<210> 25567
<211> 124
<212> PRT
<213> A.fumigatus

<400> 25567
```
Met Ser Ala Pro Ser Ser Pro Val Val Lys Thr Ala Asp Ala Gln Gly
1               5                   10                  15
Arg Gly Leu Ser Pro Pro Gln Ala Gly Ile Val Phe Lys Gln Leu Asn
            20                  25                  30
Val Ser Gly Ser Gly Ala Ala Leu Gln Leu Gln Asp Thr Leu Gly Ser
        35                  40                  45
Thr Leu Ala Leu Pro Phe Arg Leu Pro Glu Leu Leu Arg Gln Arg His
    50                  55                  60
Ser Pro Ser Arg Leu Ile Leu Lys Ser Phe Asn Gly Leu Met Lys Ser
65                  70                  75                  80
Gly Glu Leu Leu Leu Val Leu Gly Arg Pro Gly Ala Gly Cys Ser Thr
                85                  90                  95
Phe Leu Lys Thr Leu Cys Gly Glu Thr His Gly Leu Asp Val Asp Pro
            100                 105                 110
Lys Ser Val Leu His Tyr Asn Gly Thr Asn Ile Phe
        115                 120
```

<210> 25568
<211> 79
<212> PRT
<213> A.fumigatus

<400> 25568
```
Ala Cys Arg Asn Arg Ala Arg Ile Cys Ala Cys Ala Asn Val Asn Cys
1               5                   10                  15
Ser Ser Leu Gln Val Asp Lys His Phe Leu His Leu Ser Val Gly Gln
```

```
            20                  25                  30
Thr Leu Glu Phe Ala Ala Ala Ala Arg Thr Pro Ser His Arg Phe His
        35                  40                  45
Asp Met Ser Arg Asp Glu Tyr Ala Lys Tyr Ala Ala Gln Val Ile Met
    50                  55                  60
Ala Val Phe Gly Leu Ser His Thr Tyr Asn Thr Lys Gly Trp Lys
65                  70                  75
```

<210> 25569
<211> 96
<212> PRT
<213> A.fumigatus

<400> 25569

```
Lys Ser Leu Cys Pro Ser Ala Thr Ser His Arg Pro Arg Ser Val Gln
1               5                   10                  15
Met Ala Asn Asp Ile Glu Thr Ser Phe Gln Ala Ala Ile Asp Ala Gly
            20                  25                  30
Gln Ile Asn Gly Ala Val Ile Cys Thr Thr Asp Thr Asn Gly Thr Phe
        35                  40                  45
Val Tyr Asn Thr Ala Leu Gly Gln Arg Thr Leu Leu Ser Gly Glu Lys
    50                  55                  60
Leu Pro Gln Gln Leu Lys Gln Leu Leu Tyr Leu Ala Pro Gly Asn Gln
65                  70                  75                  80
Thr Gly Pro Arg Tyr Cys Gly Pro Ala Leu Arg Ser Arg Met Asp Tyr
                85                  90                  95
```

<210> 25570
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25570

```
Gly Ala Ala Pro Ser Ser Pro Val Val Lys Thr Arg Arg Asn Cys Cys
1               5                   10                  15
Arg Arg Asn Cys Gly Pro Met Arg Phe Val Tyr Ser Met Arg Arg Ser
            20                  25                  30
Val Ala Asp Gly Ser Tyr Ser Leu Arg Phe Arg Met Trp Arg Leu Thr
        35                  40                  45
Met Asn Gly Cys Arg Leu Arg Arg Arg Arg Gly Pro Arg Leu Lys Val
    50                  55                  60
Cys Thr Cys Phe Trp Leu Cys Gly Phe Tyr Gly Pro Phe
65                  70                  75
```

<210> 25571
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25571

```
Ser Phe Val Ile Asp Val Thr Pro Ala Pro Ala Tyr Lys Pro Ser Ser
1               5                   10                  15
Ile Ala Gly Glu Thr Val Phe Leu Tyr Thr Tyr Thr Phe Gln Ala Glu
            20                  25                  30
Pro Ala Ser Leu Ser Pro Asn Ile Gly Ser Leu Val Ser Leu Val Glu
        35                  40                  45
```

```
Ala Met Arg Lys Tyr Arg Thr His Phe Leu Met Ser
    50                  55                  60

<210> 25572
<211> 186
<212> PRT
<213> A.fumigatus

<400> 25572
Asn Met Leu Arg Gln Ala Cys Ser Val Ala Gln Arg Asn Glu Ala Ala
1               5                   10                  15
Glu Gly Ser Ile Val Gly Ser Ile Met Phe Trp Ile Leu Gly Cys Phe
            20                  25                  30
Ile Ala Ile Leu Asp Trp Leu Val Thr Leu Phe Asn Arg Tyr Ala Phe
        35                  40                  45
Cys His Ile Ala Leu Tyr Gly Lys Ala Tyr Ile Pro Ala Ala Lys Asp
    50                  55                  60
Thr Trp Thr Met Met Arg Asp Arg Gly Ile Asp Ala Leu Val Asn Asp
65                  70                  75                  80
Cys Leu Ile Gly Pro Val Leu Thr Met Gly Ser Val Phe Val Ser Tyr
                85                  90                  95
Val Cys Ala Leu Leu Ala Tyr Leu Tyr Leu Gln Phe Thr Lys Pro Ser
            100                 105                 110
Tyr Asn Ala Asp Gly Asn Phe Thr Ala Val Ile Met Ala Phe Ala Phe
        115                 120                 125
Val Ile Gly Leu Gln Ile Cys Gln Ile Phe Met Thr Pro Val Ser Ser
    130                 135                 140
Gly Ile Glu Thr Ile Phe Val Ala Met Gly Trp Asp Pro Gln Val Met
145                 150                 155                 160
Ile Arg Asp His Pro Asp Leu Tyr Tyr Arg Met Ile Gln Val Tyr Pro
                165                 170                 175
Arg Val Gln Gln Ala Ile Gln Pro Ser Ala
            180                 185

<210> 25573
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25573
Pro Lys Leu Ser His Ser Gly Ile Ile Pro Leu Pro Trp Leu Cys Leu
1               5                   10                  15
Arg Phe Asp Leu Arg His Pro Ile Ser Pro Ile Thr His Gly Leu Ala
            20                  25                  30
Gln Ala Phe Thr Cys Ser Phe Ser Arg Ile Asp Glu Trp Glu Gly Val
        35                  40                  45
Glu Leu Ser Thr Gly Val Leu Gly Asp Ala Ser Pro Phe Val Asn Pro
    50                  55                  60

<210> 25574
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25574
Ile Val Tyr Ser Thr Ile Leu Thr Leu Trp Arg Pro Gln Asn Tyr Asp
```

```
1               5                   10                  15
Trp Ala Glu Phe Lys Lys Val Lys Leu Ala Leu Glu Glu Leu Gly Gly
            20                  25                  30
Asp Leu Thr Thr Val His Asn Gln Ser Ser Lys Ile Leu Ala Pro Asn
        35                  40                  45
Ala Gln Glu Leu Lys Arg Trp Gly Arg Ile Ala Ala Phe Trp Ser Ile
    50                  55                  60
Ala Thr Phe Leu Gly His Trp Val Leu Trp Pro Leu Pro Met Tyr Gly
65                  70                  75                  80
Ala Lys Tyr Ile Phe Gly Lys Thr Val Ser Ile Gln Pro Leu Ser Cys
                85                  90                  95
Glu Lys
```

<210> 25575
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25575

```
Ala Glu Asn His Arg Ser Gly Phe Leu Ser Gln Gln Leu Glu Cys Val
1               5                   10                  15
Tyr Cys Gln Ala Ile Asn Gly Ser Cys Val Thr Ile Leu Ser Leu Ser
            20                  25                  30
Val Ile Ile Arg Ile Arg Thr Lys Ile Leu Ser Ile Asp Lys Ile Ser
        35                  40                  45
Gly Leu Glu Glu Cys His Val Leu Arg Tyr Gln Phe Gly Arg
    50                  55                  60
```

<210> 25576
<211> 170
<212> PRT
<213> A.fumigatus

<400> 25576

```
Asp Lys His Lys Thr Ser Ser Ser Glu Asn Pro Gln Asn Ser Thr Pro
1               5                   10                  15
Pro Lys Arg Leu Ser His Thr Pro Thr Ser Thr Arg Asn Ala Lys Arg
            20                  25                  30
Arg Ile Ser Phe Arg Ser Ser Arg Leu Ser Thr Gly Ser Asp Arg Ile
        35                  40                  45
Ser Leu Asn Ile Ser Arg Tyr Arg Ile Ile Phe Arg Val Asp Met Ser
    50                  55                  60
Tyr Glu Glu Arg Val Asn Ala His Pro Asn Leu Gly Asp Glu Ser Asp
65                  70                  75                  80
Val Glu Glu Glu Ala Leu Val Asn Asp Tyr Arg Glu Gln Val Asn Phe
                85                  90                  95
Asp Asp Gly Met Ser Glu Leu Asp Arg Thr Thr Ser Leu Gly Thr Gly
            100                 105                 110
Ser Gln Thr Gln Asp Leu Gln Ala Gln Leu Ala Ala Ala Ala Thr Pro
        115                 120                 125
Leu Glu Tyr Gln Ala Thr Leu Glu Thr Lys Phe Ala Ser Tyr Asp Asn
    130                 135                 140
Tyr Cys Ser Leu Phe His Tyr Ile Leu Asn Ser Glu Gly Pro Val Glu
145                 150                 155                 160
Leu Glu Val Pro Ser Val Arg Pro His Leu
```

165 170

<210> 25577
<211> 124
<212> PRT
<213> A.fumigatus

<400> 25577
Tyr Tyr Trp Ala Trp Asp Val Ile Asp Glu Phe Ile Tyr Gln Phe Glu
1 5 10 15
Ser Phe Cys Arg Tyr Arg Asn Arg Val Ala Arg Ser Gly Ser Asn Glu
20 25 30
Glu Glu Ala Gln Leu Leu Arg Glu Asn Pro Asn Thr Trp Gly Cys Tyr
35 40 45
Ser Val Leu Asn Val Leu Tyr Ser Leu Ile Gln Lys Ser Gln Ile Asn
50 55 60
Glu Gln Leu Ala Ala Ile Lys Arg Gly Glu Asp Pro Leu Ala Phe Ala
65 70 75 80
Gly Glu Tyr Gly Ser Arg Pro Leu Tyr Lys Met Leu Gly Tyr Phe Ser
85 90 95
Ile Ile Gly Leu Leu Arg Val His Cys Leu Leu Gly Asp Phe Ser Leu
100 105 110
Ala Leu Lys Thr Leu Val Phe Thr Thr Gly Leu Glu
115 120

<210> 25578
<211> 600
<212> PRT
<213> A.fumigatus

<400> 25578
Pro Arg Gly Ala Gln Leu Ala Val Val Ala His Ile Arg His Ile Tyr
1 5 10 15
Thr Asp Tyr Asp Arg Arg Leu Lys Thr Thr Ser Phe His Lys Ala Gln
20 25 30
Ser Ala Val Lys Glu Pro Thr Leu Ala Lys Leu Val Glu Trp Arg Gly
35 40 45
Ala Asp Glu Asn Gly Lys Thr Val Leu Glu Asp Val Phe Arg Glu Val
50 55 60
Ile Val Ile Ser Asp Asp Asp Asp Ser Asp Ala Glu Glu Gly Glu Val
65 70 75 80
Ser Arg Ser Ile Asn Arg Asp His Ser Ile Glu Ile Val Ser Ser His
85 90 95
Gln Arg Ala Asp Asp Leu Gln Met Arg Pro Val Ser Phe Ser His Pro
100 105 110
Thr Val Gln Asp Ser His Leu Asp Ile Ser Asp Asp Glu Pro Pro Pro
115 120 125
Gly Phe Arg Phe Ile Pro Glu Ser Pro Lys Lys Arg Arg Leu Asp Arg
130 135 140
Arg Gly Phe Ser Arg Tyr His Ala Trp Asp Arg Ala Leu Asn Arg Tyr
145 150 155 160
Arg Lys Gly Thr Tyr His Gln His Arg Phe Tyr Ala Asp Ser Thr Gly
165 170 175
His Pro Gly Pro Leu Leu Thr Ala Arg Gln Pro Val Gln Glu Asn Ile
180 185 190
Thr Phe Asp Pro Gly Ala Thr Cys His Pro His Ile Thr Ala Leu Arg

```
        195                 200                 205
His Val Ser Val Asp Pro His Ile Ala Ser Lys Thr Glu Val Leu His
    210                 215                 220
His Gly Gln Arg Arg Thr Leu Thr Arg Thr Leu Lys Glu Asn His Val
225                 230                 235                 240
Ser Leu Gln Arg Thr Asp Ala Glu Arg Ser Gly Gln Lys Thr His Ile
                245                 250                 255
Arg Pro Pro Leu Ile Ser His Glu Pro Ser Asn Pro Gly Thr Leu Leu
            260                 265                 270
His Leu Pro Ile Pro Arg Ser Asp Ala Ser Arg Leu Ala Asp Arg Thr
        275                 280                 285
Glu Gly Glu Arg Val Ser Ala Asp Gln Arg Arg Ala Arg Phe Asp Gln
    290                 295                 300
Arg Leu Asn Ser Pro Asn Thr Pro Val Phe Val Gly Gly Pro Thr Glu
305                 310                 315                 320
Ile Gln Trp Arg Gly Arg Val Pro Ser Gly Ala Met Ser Arg Ile Pro
                325                 330                 335
Gly Pro Pro Tyr Leu Glu Met Gln Pro Asn Pro Gln Asp His Ile Leu
            340                 345                 350
Pro Ser Ile Glu Thr Pro Pro Leu Pro Gln Gln Ile Arg Arg Pro Pro
        355                 360                 365
Ser Ala His Leu Asp Gln Leu Thr Arg Arg Ile Thr Gly Gly Phe Thr
    370                 375                 380
Ile Arg Ser Val Thr Pro Arg His Pro Ala Gln Glu Asp Ser Leu Pro
385                 390                 395                 400
Gln Gly Glu Ser Asp Val Arg Ile Pro Ala Ser Lys Arg Arg Arg Val
                405                 410                 415
Ala Asn His Asp Pro Ala Thr Tyr Ile Glu Pro Arg Ser Asp Val Ala
            420                 425                 430
Pro Ile Val Pro Val Gly Thr His Ala Lys Gln Gln Tyr Val Asp Leu
        435                 440                 445
Gly Asn Ala Ser Pro Arg Ser Leu Thr Ser Gln Ser Gly Ala Pro Ile
    450                 455                 460
Cys Arg Arg Tyr Met Val Pro Val Lys Ser Pro Tyr Leu Ala Glu Arg
465                 470                 475                 480
Tyr Pro Glu Gly Ser Gln Gly Pro Phe Asn Tyr Ala Gln Pro Val Pro
                485                 490                 495
Glu Val Val Val Asp Gln Arg His Tyr Ser Asn Phe Lys Ser Lys Ser
            500                 505                 510
Thr Ala Trp Gly His Gln Pro Lys His Gln Leu Glu Gln Tyr Arg Val
        515                 520                 525
Leu His Pro Leu Gln Gly Ser Pro Gly Gln Val His Val Ser Ser Asp
    530                 535                 540
Ala Cys Tyr Ala Thr Ala Ser Ser Asn Glu Ser Cys Asn Ala Val Ser
545                 550                 555                 560
Lys Leu Pro Asp Thr Ala Ser Glu Ala Gly Arg Val Tyr Glu Ser Arg
                565                 570                 575
Arg Ile His Glu Glu Ala Gly Glu Ala Thr Tyr Met Pro Asp Leu His
            580                 585                 590
Asn Trp Trp Ser Thr Pro Arg Ala
        595                 600
```

<210> 25579
<211> 94
<212> PRT
<213> A.fumigatus

<400> 25579
His Arg Ile Leu Val Leu Ala Asp Pro Val Gln Glu Leu Tyr Leu Arg
1 5 10 15
Gln Leu Gln Ala Tyr Lys Pro Thr Pro Ile Lys Pro Gly Asp Ala Glu
20 25 30
Ala His Val Gln Lys Phe Ser Ala Pro Ala Ala Pro Gln Ser Pro Glu
35 40 45
Glu Ala Asn Leu Ala Asn Asp Leu Lys Ala Tyr Glu Ser Gln Asp Val
50 55 60
Glu Val Glu Gly Gln Ala Ala Ala Gly Glu Ala Ala Pro Val Glu Glu
65 70 75 80
Ser Trp Phe Glu Glu Glu Pro Glu Glu Glu Thr Ala His His
85 90

<210> 25580
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25580
Val Lys Thr Met Phe Asn Leu Asn Phe Ile Ser Ser Thr Glu Phe Gln
1 5 10 15
Ile Met Val Arg Asn Val His Ala Val Ile Gln Ala Gln Trp Leu Leu
20 25 30
His Asn Gly Thr Ala Gln Tyr Met His Pro Pro Asn His Phe Ser Ser
35 40 45
Ile Thr Lys Ala Met Ser Leu Leu Ala Leu Arg Ile Lys Met Ser
50 55 60

<210> 25581
<211> 110
<212> PRT
<213> A.fumigatus

<400> 25581
Thr Gln Val Leu Arg Cys Ile Pro Ile Pro Ser Ser Ile Cys Leu Thr
1 5 10 15
Pro Ala Ala Arg Ile Ser Pro Pro Val Gly Ala Pro Ala Gln Thr Thr
20 25 30
Gln Ile Asn Ser His Ser Ala Thr Glu Ala Gln Glu Lys Met Thr Pro
35 40 45
Asp Ser Gln Lys Ser Thr Met Asp Lys Met Lys Glu Thr Val Thr Asp
50 55 60
Ala Thr Asp Arg Leu Thr Gly Ser Ala Gln Gly Asp Ser Gln Lys Ser
65 70 75 80
Tyr Ser Gln Gln Ala Tyr Asp Ser Ile Arg Gly Gly Ala Asp Asn Gln
85 90 95
Thr His Gly Ser Ser Thr Glu Thr Met Tyr Val Pro Pro Val
100 105 110

<210> 25582
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25582
Cys Ala Gly Ser Val Tyr Val Gly Ser Gly Gly Cys Cys Pro Tyr Trp
1 5 10 15
Ser Leu Ser Lys Ser Gly Arg Tyr Pro Leu Gln Thr Leu Val His Leu
20 25 30
Cys Ile Arg Leu Asp Val Tyr Cys Ser Gly His Glu Val Cys Ile Asp
35 40 45
Gln Asn Gly Ala Pro Thr Glu Tyr Gly Arg Ile His Arg Phe Thr Asp
50 55 60
Val Gly
65

<210> 25583
<211> 176
<212> PRT
<213> A.fumigatus

<400> 25583
Val His Tyr Trp Gln His Gly Arg Ile Gly Arg Tyr Val Val Glu Ser
1 5 10 15
Pro Ile Ile Leu Gly His Glu Ser Ser Gly Ile Val Val Glu Cys Gly
20 25 30
Ser Lys Ser Gly Phe Ala Val Gly Asp Arg Val Ala Leu Glu Pro Gly
35 40 45
Val Ala Cys Asn Thr Cys Ser His Cys Arg Ala Gly Arg Tyr Asn Leu
50 55 60
Cys Arg Glu Met Arg Phe Ala Ala Thr Pro Pro Tyr Asp Gly Thr Leu
65 70 75 80
Ala Thr Tyr Tyr Leu Val Pro Ala Glu Cys Cys Tyr Lys Leu Pro Pro
85 90 95
His Ile Ser Leu Arg Asp Gly Thr Leu Asp Glu Pro Leu Ser Val Ala
100 105 110
Val His Ser Cys Arg Leu Ala Gly Glu Met Gln Gly Lys Ser Ser Gly
115 120 125
Arg Phe Arg Ser Lys Ala Gly Pro Leu Ala Leu Cys Gly Pro Gly Ala
130 135 140
Cys Val Trp Ser Gly Asn Cys Thr Ser Cys Glu Arg Cys Ala Gln Lys
145 150 155 160
Asn Arg Val Leu Ala Glu Lys Arg Ala Thr Pro Ser Leu Pro Asp Asp
165 170 175

<210> 25584
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25584
Ser Trp Ser Ser Leu Cys Pro Ser Cys Ser Pro Arg Ile Thr Gln Ala
1 5 10 15
Val Asn Gln Ala Phe Val Leu His Pro Gly Gly Ser Phe His Tyr Glu
20 25 30
Gln Arg Ala Val Pro Thr Leu Gly Ser Asp Arg Asp Val Leu Val Arg
35 40 45
Val Val Ala Thr Gly Leu Cys Gly Ser Asp Val Gly Ala Ser Leu Pro
50 55 60

<210> 25585
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25585
Glu Met Val Pro Leu Met Ser Arg Ser Val Trp Leu Tyr Thr Val Val
1 5 10 15
Gly Ser Gln Gly Lys Cys Arg Gly Lys Ala Val Val Val Phe Gly Ala
20 25 30
Arg Pro Val Arg Leu Leu Cys Val Ala Leu Ala Arg Ala Phe Gly Ala
35 40 45
Ala Thr Val Leu Leu Val Asn Val Val Pro Lys Arg Ile Gly Phe Trp
50 55 60
Leu Lys Asn Gly Pro Pro Leu Pro Tyr Gln Met
65 70 75

<210> 25586
<211> 343
<212> PRT
<213> A.fumigatus

<400> 25586
Gly Phe Glu Cys Thr Pro Val Asp Pro Ser Ser Pro Val Val Lys Thr
1 5 10 15
Gln Leu Glu Arg Arg Arg Lys Arg Arg Gly Arg Tyr Gly Thr Phe Gln
20 25 30
Arg Pro Leu Arg His Arg Leu Leu Thr Arg Glu Gln Glu Val Asp Pro
35 40 45
Pro Ala Val Glu Ala Pro Ser Asn Gly Phe Gln Asp Val Ser Leu Asn
50 55 60
Asp Ser Gly Ala Pro Gln Leu Asp Leu Pro Leu Asp Pro Pro Ala Gly
65 70 75 80
Ser Asn Gly Gly Val Gly Phe Asn Phe Gly Gly Trp Gly Lys Asp Trp
85 90 95
Asn Thr Gly Ser Lys Trp Gly Leu Asp Ser Leu Asn Met Asn Gly Asn
100 105 110
Ala Asn Ala Asp Asp Gly Asn Gly Thr Asn Pro Trp Gly Pro Ile Gly
115 120 125
Ser Lys Lys Asp Thr Ser Lys Thr Pro Gly Gly Phe Asp Phe Gly Asp
130 135 140
Phe Gly Asp Ser Gly Asp Ala Val Gln Glu Pro Pro Ala Glu Lys Lys
145 150 155 160
Lys Pro Glu Glu Asp Ile Trp Ala Asp Phe Ala Pro Val Ser Ala Lys
165 170 175
Asp Lys Lys Lys Lys Lys Lys Asp Leu Val Glu Glu Ile Pro Lys Glu
180 185 190
Pro Glu Pro Glu Pro Glu Pro Lys Pro Leu Pro Ala Pro Glu Pro Ala
195 200 205
Pro Ala Val Asp Asp Ser Trp Met Ala Gly Leu Ser Lys Lys Glu Lys
210 215 220
Arg Lys Ala Lys Lys Asn Ala Lys Val Ala Glu Glu Pro Pro Ala Pro
225 230 235 240
Glu Pro Val Ile Glu Glu Pro Lys Thr Asp Asn Val Trp Ser Thr Ala
245 250 255
Glu Glu Lys Lys Glu Pro Glu Lys Ala Pro Glu Met Ala Asp Asp Asn

```
            260                 265                 270
Asp Trp Gly Trp Gly Val Pro Thr Lys Lys Lys Asp Lys Lys Lys Lys
        275                 280                 285
Gly Val Leu Glu Thr Val Ala Pro Val Glu Ser Pro Thr Pro Glu Pro
    290                 295                 300
Pro Ala Pro Glu Pro Ala Pro Ala Glu Asp Asp Trp Gly Ile Ala Trp
305                 310                 315                 320
Gly Ser Ile Gly Lys Lys Asp Lys Lys Ser Lys Lys Gly Ala Val Val
                325                 330                 335
Glu Glu Pro Ala Pro Gly Leu
            340
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<210> 25587
<211> 273
<212> PRT
<213> A.fumigatus

<400> 25587

```
Arg Pro Gly Ala Gly Ser Ser Thr Thr Ala Pro Phe Leu Asp Phe Leu
1               5                   10                  15
Ser Phe Leu Pro Ile Asp Pro Gln Ala Ile Pro Gln Ser Ser Ser Ala
            20                  25                  30
Gly Ala Gly Ser Gly Ala Gly Gly Ser Gly Val Gly Asp Ser Thr Gly
        35                  40                  45
Ala Thr Val Ser Ser Thr Pro Phe Phe Phe Leu Ser Phe Phe Leu Val
    50                  55                  60
Gly Thr Pro Gln Pro Gln Ser Leu Ser Ser Ala Ile Ser Gly Ala Phe
65                  70                  75                  80
Ser Gly Ser Phe Phe Ser Ser Ala Val Leu His Thr Leu Ser Val Phe
                85                  90                  95
Gly Ser Ser Met Thr Gly Ser Gly Ala Gly Gly Ser Ser Ala Thr Leu
            100                 105                 110
Ala Phe Phe Phe Ala Phe Arg Phe Ser Phe Leu Glu Arg Pro Ala Ile
        115                 120                 125
Gln Leu Ser Ser Thr Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Leu
    130                 135                 140
Gly Ser Gly Ser Gly Ser Gly Ser Leu Gly Ile Ser Ser Thr Arg Ser
145                 150                 155                 160
Phe Phe Phe Phe Phe Leu Ser Leu Ala Leu Thr Gly Ala Lys Ser Ala
                165                 170                 175
Gln Ile Ser Ser Ser Gly Phe Phe Phe Ser Ala Gly Gly Ser Cys Thr
            180                 185                 190
Ala Ser Pro Glu Ser Pro Lys Ser Pro Lys Ser Lys Pro Pro Gly Val
        195                 200                 205
Phe Glu Val Ser Phe Leu Leu Pro Ile Gly Pro Gln Gly Leu Val Pro
    210                 215                 220
Phe Pro Ser Ser Ala Leu Ala Leu Pro Phe Met Leu Arg Glu Ser Arg
225                 230                 235                 240
Pro His Leu Leu Pro Val Phe Gln Ser Leu Pro His Pro Pro Lys Leu
                245                 250                 255
Lys Pro Thr Pro Pro Leu Leu Pro Ala Gly Gly Ser Arg Gly Arg Ser
            260                 265                 270
Ser
```

<210> 25588

<211> 72
<212> PRT
<213> A.fumigatus

<400> 25588
Leu Gly Gln Arg Ser Asn Lys Arg Pro Phe Cys Asn Asn Ser Ile Thr
1 5 10 15
Leu Leu Met Gln Ser Leu Glu Ala Leu Ser Arg Pro Ile Met Val Phe
20 25 30
His Leu Val Thr Ala Leu Trp Met Asn Phe Lys Thr Asn Met Leu His
35 40 45
Glu Glu Leu Phe Trp Gly Leu Leu Gln Pro Pro Thr Ser Ala Thr Pro
50 55 60
Leu Ala Ala Ala Gln Ser Cys Met
65 70

<210> 25589
<211> 217
<212> PRT
<213> A.fumigatus

<400> 25589
Lys Arg Pro Gln Gly Arg Arg Gln Ser Arg Ala Gln Pro Ala Ala Ser
1 5 10 15
Gln Pro His Pro His Gln His Arg Pro His Arg Val Arg Val His Pro
20 25 30
Asp Leu Arg Glu Tyr Arg Leu Arg Leu Pro His Arg Arg Leu Leu Leu
35 40 45
Ala Pro Ala Ala Val Leu Leu Ala His Leu Ala Pro Pro Cys Ala Pro
50 55 60
Arg Leu Arg His Pro Ser Leu His Pro Val Leu Arg His Lys Arg His
65 70 75 80
Thr Gly Leu Gln Pro Thr His Leu Pro Leu Ala Arg Pro Pro His Leu
85 90 95
His His Pro His Asp His Arg Arg Leu Gly Ser Pro Arg Pro Val Leu
100 105 110
Glu His Arg Val Pro Ala Val His Arg Pro Arg Arg Pro Pro Gln Ala
115 120 125
Pro His Pro Phe Ser Pro Arg His Gly Arg Arg Pro Leu Arg Arg Ser
130 135 140
His Pro Arg Pro Leu Leu Arg Gln Leu Arg Pro Gly Arg Gly Leu Leu
145 150 155 160
Gly Ile Cys Leu Thr Arg Ser Pro Pro Arg Arg His Arg His Val Leu
165 170 175
Arg Leu Leu Ser Leu Phe His Arg Ser Arg Pro His Leu Leu Ala Val
180 185 190
Ser Arg Arg Asp Leu Pro His Gly His Pro Arg Pro Arg Leu Val His
195 200 205
Arg Asp Arg His Lys Leu Glu Pro Gln
210 215

<210> 25590
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25590
Gly Thr His Cys Val Ile Phe Gln Pro Arg Gly Glu Glu Phe Ile Met
1 5 10 15
Thr Phe Leu Leu Val Thr Leu Cys Cys Ile Leu Ala Thr Leu Gly Ser
20 25 30
Phe Leu Phe Gly Tyr Asp Ser Gly Val Ile Gly Ser Thr Leu Glu Gln
35 40 45
Ala Ala Phe Leu Gln Gln Phe Asp His Pro Ser Asp Ala Val Thr Gly
50 55 60
Gly Ile Val Ser Ser Tyr Asn Gly Val Ser Ser Arg His Cys Ser Leu
65 70 75 80
Asp Glu Phe

<210> 25591
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25591
Gly Thr Ile Leu Gly Ser Ile Ala Ala Pro Tyr Ile Cys Asp Pro Phe
1 5 10 15
Gly Arg Arg Pro Val Met Tyr Val Gly Thr Leu Leu Ala Ala Leu Gly
20 25 30
Ala Ala Leu Gln Ala Gly Ala Thr His Val Ala Met Leu Ile Val Gly
35 40 45
Arg Val Ile Ala Gly Phe Ser Ile Gly Leu Met Ala Thr Thr Ile Pro
50 55 60
Ile Tyr Cys Val Ser Ala Phe Gln Gln Pro Leu Ser Tyr Thr Arg Asp
65 70 75 80
Met Leu Phe Cys

<210> 25592
<211> 265
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25592
Leu Val Xaa Gln Trp Val Gly Tyr Gly Cys Ser Leu His Thr Gly Ala
1 5 10 15
Phe Ser Trp Arg Phe Pro Leu Ala Met Gln Ala Val Pro Ala Val Ile
20 25 30
Leu Gly Thr Gly Val Trp Phe Leu Pro Glu Ser Pro Arg Trp Leu Ile
35 40 45
Glu Lys Gly Arg Lys Asp Ala Gly Lys Ala Val Leu Asn Arg Leu His
50 55 60
Leu Asn Arg Thr Arg Thr Asn Thr Asp Leu Ile Glu Ser Glu Phe Thr
65 70 75 80
Gln Ile Cys Glu Ser Ile Ala Ser Asp Ser Arg Thr Val Val Ser Ser
85 90 95

```
Trp Arg Gln Leu Leu Phe Ser Ser Pro Thr Trp Arg His Arg Val Leu
            100                 105                 110
Leu Ala Cys Gly Ile Gln Ala Phe Thr Gln Cys Ser Gly Thr Asn Val
        115                 120                 125
Ile Gln Val Tyr Ser Pro Arg Ile Tyr Arg Ser Leu Gly Leu Pro Thr
    130                 135                 140
Ser Thr Thr Leu Met Ile Thr Gly Val Trp Gly Ala Leu Ala Gln Phe
145                 150                 155                 160
Trp Asn Thr Val Phe Leu Leu Phe Ile Asp Arg Val Gly Arg Arg Lys
                165                 170                 175
Leu Leu Ile Pro Ser Leu Leu Gly Met Gly Ala Ala Leu Cys Val Glu
            180                 185                 190
Ala Thr Leu Ala Arg Tyr Tyr Gly Asn Phe Gly Pro Asp Ala Asp Ser
        195                 200                 205
Ser Val Ser Ala Ser Pro Ala Ala Leu Arg Ala Ala Ile Ala Met Phe
    210                 215                 220
Phe Val Phe Ser Leu Phe Phe Thr Ala Leu Gly Leu Ile Ser Trp Leu
225                 230                 235                 240
Tyr Pro Ala Glu Ile Phe Pro Thr Ala Ile Arg Ala Arg Gly Ser Ser
                245                 250                 255
Ile Ala Thr Ala Thr Asn Trp Ser Leu
            260                 265
```

<210> 25593
<211> 444
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (412)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25593

```
Ser Arg Ala Leu Pro Pro Leu Val Lys Thr Asp Glu Arg His Ile Arg
1               5                   10                  15
Tyr Cys Pro Val Ser Thr Glu Thr Met Ala Val Ser His Val Trp Ser
            20                  25                  30
His Gly Gln Gly Gly Arg Pro Glu Thr Gly Phe Asn Ile Cys Leu His
        35                  40                  45
Arg Arg Tyr Thr Arg Leu Ala Arg Ala Leu Gly Cys Thr Ser Tyr Trp
    50                  55                  60
Met Asp Thr Pro Cys Ile Pro Thr Asp Gln Glu Leu Arg Tyr Glu Ala
65                  70                  75                  80
Met Gly Gln Asn Asn Ser Asn Phe Leu Asn Ser Lys Val Thr Leu Leu
                85                  90                  95
Val Asp Arg Asp Leu Met Glu Ile Asn Ile His Pro Leu Thr Leu Glu
            100                 105                 110
Ala Lys Glu Ala Ile Val Ala Thr Leu Ala Val Cys Asp Trp Asn Val
        115                 120                 125
Arg Ala Trp Thr Leu Leu Glu Gly Met Arg Gly Arg Trp Asn Leu His
    130                 135                 140
Val Leu Cys Lys Asp Asn His Val Ile Ser Leu Val Asp Val Leu Asn
145                 150                 155                 160
Asp Val Leu Ala Tyr Ser Asn Leu Thr Leu Val Ser Pro Cys Leu Ala
                165                 170                 175
```

```
Leu Gln His Tyr Asn Pro Thr Gly Arg Arg Pro Val Glu Gly Glu Ile
            180                 185                 190
Pro Pro Val Lys Ile Glu Gln Ala Thr Cys Leu Leu Asn His Arg His
        195                 200                 205
Ala Thr Lys Asp Arg Asp Val Thr Met Ile Trp Ser Leu Val Cys Gly
    210                 215                 220
Ser Gln Leu Val Lys Ala Ser Val Asp Phe Trp Lys Ser Lys Met Gly
225                 230                 235                 240
Ser Pro Leu Ala Thr Gly Phe Leu Val Ser Ser Ser Pro Arg Leu Gln
                245                 250                 255
Asp Gln His Gly Phe Ser Trp Ala Pro Ser Arg Pro Asn Leu Leu Pro
            260                 265                 270
Pro Thr Ala Gly Thr Ser Ser Ala Ala Gly Gln Tyr Pro Ala Tyr Asp
        275                 280                 285
Gly Glu Leu Ser Val Ala Gly Met Ile Thr Glu Gln Gly Phe Lys Ala
    290                 295                 300
Glu Trp Leu Met Cys Leu Ile Gly Arg Ser Arg Ala Leu Pro Thr Trp
305                 310                 315                 320
Leu His Leu Arg Phe Tyr Thr Gln Asp Glu Ser Gln Ile Arg Ser Tyr
                325                 330                 335
Tyr His Val Tyr Asn Lys Gly Gly Asn Ser Arg Met Asp Met Lys Ser
            340                 345                 350
Leu Tyr Lys Leu Arg Ser Val Ile Ala Pro Val Phe Lys Lys Tyr Arg
        355                 360                 365
Trp Val Ala Leu Leu Leu Pro Ala Val Arg Asp Arg Gly Thr Asn Gly
    370                 375                 380
Ala Thr Ser Pro Pro Arg Pro Phe Gln Tyr Gln Gly Glu Ala Lys Gly
385                 390                 395                 400
Thr Leu Pro Val Ile Ala Gly Ser His Asp Glu Xaa Gly Trp Glu Trp
                405                 410                 415
Gln Phe Val Ala Glu Trp Asp Asn Asn Phe Arg Pro Ala Glu Phe Gly
            420                 425                 430
Pro Arg Glu Val Arg Lys Val Tyr Ile Pro Glu Met
        435                 440

<210> 25594
<211> 82
<212> PRT
<213> A.fumigatus

<400> 25594
Lys Ser Phe Asn Lys Met Ala Ile Glu Phe Thr Gln Asp Thr Leu Asp
1               5                   10                  15
Glu Ile Tyr Ala Phe Ala Val Ala Leu Gly Arg Arg Ala Gly Asp Leu
            20                  25                  30
Leu Leu Glu Arg Ile Asp Lys Gln Ile Ala Ser Asp Gly Glu Thr Ala
        35                  40                  45
Tyr Thr Tyr Thr Glu Lys Asp Asn Ala Val Asp Ile Val Thr Gln Thr
    50                  55                  60
Asp Glu Gly Asn Pro Ser Thr His Pro Pro Arg Pro Pro Lys Lys Glu
65                  70                  75                  80
Arg Lys


<210> 25595
<211> 123
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<212> PRT
<213> A.fumigatus

<400> 25595
Ser Arg Thr Glu Gly Thr Val Asn Phe Thr His Leu Phe Pro Thr Phe
1 5 10 15
Cys Val Ser Ile Gly Phe Leu Val Asn His Arg Pro Val Ile Gly Val
20 25 30
Ile Tyr Ala Pro Ala Met Asn Gln Met Phe Ser Ser Cys Val Gly Arg
35 40 45
Gly Ala Trp Leu Asn Asp Thr Arg Gly Ala Arg Arg Leu Pro Leu Arg
50 55 60
Arg Asn Pro Ile Pro Pro Met Pro Ala Thr Ser Pro Arg Gly Cys Ile
65 70 75 80
Phe Ala Cys Glu Trp Gly Lys Asp Arg Arg Asp Ile Pro Gly Gly Asn
85 90 95
Met Ala Arg Lys Val Glu Ser Phe Val Arg Met Ala Ser Glu Ser Gly
100 105 110
Gly Met Val His Gly Val Arg Ser Leu Gly Ser
115 120

<210> 25596
<211> 133
<212> PRT
<213> A.fumigatus

<400> 25596
Ser Trp Thr Arg Trp Leu Thr Val Ala Leu Tyr Ala Tyr Leu Gly Val
1 5 10 15
Ser Leu Thr Ile Leu Gly Thr Leu Leu Ala Ala His Asn Leu Tyr Pro
20 25 30
Thr Leu Arg Pro Tyr Thr Ala Pro Phe Phe Glu Leu Ser Tyr Tyr Gln
35 40 45
Pro Ser Glu Gly Val Tyr Val Gln Gly Phe Asp Asp Val Tyr Phe Val
50 55 60
Val Ser Ser Ala Ile Thr Phe Thr Ala Val Arg Ala Ile Ala Ile Glu
65 70 75 80
Trp Ile Phe Arg Pro Ala Ala Arg Tyr Ala Gly Leu Lys Arg Lys Ala
85 90 95
Ser Asn Arg Phe Ala Glu Gln Ala Trp Met Trp Met Tyr Tyr Ala Phe
100 105 110
Phe Trp Thr Phe Gly Met Val Cys Leu Ala Ala Ser Ile His Cys Leu
115 120 125
Ser Glu Arg Trp Asn
130

<210> 25597
<211> 104
<212> PRT
<213> A.fumigatus

<400> 25597
Asp Leu Ile Ser Ser His Gln Glu Leu Ala Glu Leu Thr Leu Ala Arg
1 5 10 15
Gln Thr Ala Lys Ile Leu Lys Tyr Phe Lys Phe Glu Leu Cys Cys Asn
20 25 30

```
Ile Thr Phe Gly Leu Phe Met Val Asn Trp Leu Ile Thr Arg His Ile
        35                  40                  45
Phe Tyr Pro Leu Leu Cys Trp Ser Ile Tyr Lys Asp Val Pro Asp Ala
    50                  55                  60
Met Ala Tyr Gly Cys Tyr Ser Gly Ser Asn Ala Glu Met Ile Ser Thr
65                  70                  75                  80
Asp Gly Tyr Pro Asn Arg Phe Arg Leu Leu Phe Gln Pro Pro Ser Trp
                85                  90                  95
Asp Phe Asn Gly Pro Leu Leu Ala
            100
```

<210> 25598
<211> 111
<212> PRT
<213> A.fumigatus

<400> 25598

```
Tyr Ile Trp Thr Asn Ser Tyr Tyr Trp Met Asp Phe Lys Ala Ile Trp
1               5                   10                  15
Ala Gln Trp Pro Ala Arg Gly Ile Ser Ala Asn Leu Lys Trp Tyr Leu
            20                  25                  30
Leu Ala Gln Leu Ser Phe Trp Phe Gln Gln Ile Leu Val Ile Asn Met
        35                  40                  45
Glu Glu Arg Arg Lys Asp His Tyr Gln Met Leu Thr His His Ile Ile
    50                  55                  60
Thr Ser Thr Leu Leu Thr Ser Ala Tyr Ile Tyr Gly Phe Tyr Asn Val
65                  70                  75                  80
Ser Asn Val Val Leu Cys Leu Met Asp Ile Val Asp Leu Leu Leu Pro
                85                  90                  95
Val Cys His Glu Ile Ser Ser Pro Leu Ile Lys Asn Trp Pro Ser
            100                 105                 110
```

<210> 25599
<211> 308
<212> PRT
<213> A.fumigatus

<400> 25599

```
Pro Cys Ile Ala Val Lys Pro Glu Ala Asn Leu Ile Lys Arg Ser Thr
1               5                   10                  15
Cys Val Ala Gly Gly Val Lys Ser Ser Glu Tyr Asn Thr Ser Leu His
            20                  25                  30
Ile Gly Ala Leu Phe Ile Ile Leu Ser Val Ser Thr Leu Ala Cys Ala
        35                  40                  45
Phe Pro Val Leu Ala Thr Trp Phe Pro Arg Leu Arg Ile Pro Pro Ser
    50                  55                  60
Val Leu Phe Thr Phe Ser His Phe Gly Thr Gly Val Leu Ile Ala Thr
65                  70                  75                  80
Ala Phe Val His Leu Leu Pro Thr Ala Phe Thr Ser Leu Asn Asn Pro
                85                  90                  95
Cys Leu Ser Gly Phe Trp Thr Thr Asp Tyr Pro Ala Met Pro Gly Ala
            100                 105                 110
Ile Ala Leu Ala Gly Ile Phe Leu Val Thr Leu Val Glu Met Ile Phe
        115                 120                 125
Ser Pro Ala Arg His Val Cys Arg Gly Gly Leu Lys Val Ser Glu Gln
    130                 135                 140
```

```
Glu Thr Ser Leu Ser Glu Ser Gly Val Cys Asn Ser His Val Pro Val
145                 150                 155                 160
Ala Arg Asp Ser Lys Thr Arg Asp Glu Val Lys Arg Pro Gly Cys Thr
                165                 170                 175
Arg Val Glu Ser Gln Ser His Leu Arg Asp Leu Gly Pro Leu Val Gly
            180                 185                 190
Arg Gln Thr Ser Val Ser Arg Thr Ile Asn Arg Met Gly Glu Glu Cys
        195                 200                 205
Asp Arg Ile Met Arg Ile Ala Ser Ala Pro Glu Gly Met Arg Pro Val
    210                 215                 220
Gln Glu Ser Lys Ala Pro Pro Ile Glu Asp Val Glu Arg Ser Asp Asp
225                 230                 235                 240
Leu Ala Leu Thr Pro Glu Gln Lys His Lys Lys Ala Val Met Gln Val
                245                 250                 255
Phe Leu Leu Glu Met Gly Ile Leu Phe His Ser Val Phe Ile Gly Met
            260                 265                 270
Ser Leu Ser Val Ser Val Gly Ser Glu Phe Val Ile Leu Leu Ile Ala
        275                 280                 285
Ile Val Phe His Arg Met Phe Ser Ala Phe Gly Arg Val Leu Tyr Pro
    290                 295                 300
Ala Asn Val Gly
305
```

<210> 25600
<211> 78
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (78)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25600

```
Cys Pro Trp His Thr Asp Ala Arg Lys Phe Leu Ala Ser Arg Ser Phe
1               5                   10                  15
Lys Leu Leu Glu Met Leu Ile Leu Phe Ser Thr Pro Ile Gly Gln Ala
            20                  25                  30
Ile Gly Leu Ala Thr His Thr Leu Tyr Ser Pro Asp Ser Glu Val Gly
        35                  40                  45
Leu Leu Leu Val Gly Thr Met Asn Ala Ile Ser Ser Gly Leu Leu Ile
    50                  55                  60
Phe Ala Ser Leu Val Glu Leu Met Ser Glu Asp Phe Leu Xaa
65                  70                  75
```

<210> 25601
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25601

```
Val Arg Ser Ser Ala Ser Ser Lys His Pro Asp Glu His Ala Cys Ile
1               5                   10                  15
Pro Phe Ser Arg Ile Val Asn Pro Pro Leu Ser Phe Ser Pro Leu Thr
            20                  25                  30
Ser Gln Ser Pro Arg Thr His Val Ser Pro Tyr Glu Phe Gly Leu Ala
```

```
        35                  40                  45
Ile Ala Leu Thr Phe Asp Thr Leu Ile Asn Ser Pro Leu Arg Leu Ser
    50                  55                  60
Gln Lys Ser Ile Pro Tyr Val Pro Gly Arg Ile
65                  70                  75
```

<210> 25602
<211> 138
<212> PRT
<213> A.fumigatus

<400> 25602

```
Thr Tyr Leu Asp Ser Asn Pro Glu Ala Val Ile Val Gly Ser Pro Leu
1               5                   10                  15
Asp Gly Ser Lys Asn Pro Thr Asp Thr Lys Leu Gly Asp Leu Val Gly
            20                  25                  30
Asp Ile Thr Gly Val Ile Thr Thr Ala Tyr Gly Tyr Tyr Val Leu Leu
        35                  40                  45
Pro Leu Thr Ala Leu Thr Val Thr Gly Ser Asn Thr Thr Ala Ala Ala
    50                  55                  60
Arg Thr Asp Leu Glu Ser Ala Gly Thr Cys Gly Asp Val Thr Val Gly
65                  70                  75                  80
Ser Tyr Asn Val Asn Asn Leu Ala Pro Asn Ser Thr Thr Leu Pro Lys
                85                  90                  95
Ile Ala Gln His Ile Ala Gln Tyr Leu Lys Ser Pro Thr Leu Val Phe
            100                 105                 110
Leu Gln Glu Ile Gln Asp Asp Asp Gly Pro Thr Asp Asp Gly Gly Met
        115                 120                 125
Leu Pro Leu Arg Leu Thr Val Ala Ile Gly
    130                 135
```

<210> 25603
<211> 112
<212> PRT
<213> A.fumigatus

<400> 25603

```
Arg Gln Lys Glu Phe Thr Ser Ser Ile Leu Ala Glu Asp Ser Thr Ala
1               5                   10                  15
Lys Ile Ile Val Ser Gly Asp Phe Asn Glu Phe Thr Phe Ala Gln Pro
            20                  25                  30
Leu Glu Thr Phe Leu Ala Glu Ser Gly Leu Glu Asp Leu Asp Glu Val
        35                  40                  45
Ala Gly Ile Ala Ala Thr Glu Arg Tyr Thr Tyr Leu Tyr Asp Met Asn
    50                  55                  60
Cys Gln Gln Leu Asp His Met Phe Val Ser Pro Ala Leu Ala Thr Gly
65                  70                  75                  80
Ala Gln Met His His Leu His Val Asn Thr Trp Val Ser Phe Asp Asp
                85                  90                  95
Gln Ala Ser Asp His Asp Pro Thr Val Ala Leu Leu Asn Ala Cys Ser
            100                 105                 110
```

<210> 25604
<211> 189
<212> PRT
<213> A.fumigatus

<400> 25604
Arg Arg Tyr Ala Ser Ser Gln Ala Asp Cys Gly His Arg Leu Met His
1 5 10 15
Ala Pro Gly Val Ser Ala Asn Lys Thr Leu Ser Thr Leu Val Gln Ser
20 25 30
Ile Ala Asp Gln Gly Gly Ile Arg Tyr Ser Phe Val Asp Ile Ala Pro
35 40 45
Val Asn Lys Glu Asp Gly Gly Gln Pro Gly Gly Asn Ile Arg Val Ala
50 55 60
Tyr Leu Tyr Asp Pro Ser Val Ile Arg Leu Arg Asp Ala Asn Thr Gly
65 70 75 80
Ser Asn Thr Asp Ala Asn Glu Val Leu Pro Gly Pro Glu Leu Lys Tyr
85 90 95
Asn Pro Gly Leu Ile Asp Pro Ser Asn Asn Ala Trp Leu Asn Ser Arg
100 105 110
Lys Pro Leu Ala Ala Ala Trp Glu Thr Leu Asp Gly Lys Asn Lys Phe
115 120 125
Phe Thr Val Asn Val His Phe Thr Ser Lys Gly Gly Gly Ser Ser Ile
130 135 140
Glu Gly Asp Ala Arg Pro Pro Val Asn Gly Gly Val Ala Thr Arg Glu
145 150 155 160
Ala Gln Ala Lys Leu Val Ala Val Arg Cys Pro Arg Phe Gln Ser Leu
165 170 175
Ser Gly Thr Asn Val Arg Arg Asn Leu His Arg Pro Ser
180 185

<210> 25605
<211> 231
<212> PRT
<213> A.fumigatus

<400> 25605
Thr Pro Phe Gln Phe Ala Tyr Lys Ser Met Gly Gln Glu Glu Leu Ala
1 5 10 15
Lys Glu His Thr Tyr Ser Ile Met Ala Thr Glu Gly Arg Met Asp Ser
20 25 30
Phe Asn His Phe Met Val Gly Lys Phe Met Lys Thr Asn Ala Ala Pro
35 40 45
Asp Arg Leu Arg Ala Leu Gly Tyr Asp Leu Glu Ser Val Leu Asn Asp
50 55 60
Ala Gln Ala Ser Thr Pro Pro Thr Met Val Asp Ile Gly Gly Gly Arg
65 70 75 80
Gly Glu Met Ile Leu Asp Phe Lys Ala Ala Phe Pro Gln Leu Gln Thr
85 90 95
Ser Asp Leu Ile Val Gln Glu Phe Asn His Asp Ile Thr Asp Ile Pro
100 105 110
Gly Ile Thr Leu Ala Val Trp Asn Tyr Lys Asp Glu Ser Pro Gln Pro
115 120 125
Ile Lys Gly Ala Leu Ile Tyr His Leu Ala His Ile Leu His Asn Leu
130 135 140
Pro Asp Leu Glu Ala Leu Arg Leu Leu Lys Lys Ile Ser Glu Ala Met
145 150 155 160
Ala Pro His Ser Arg Leu Leu Ile His Gly Phe Ala Lys Asn Thr Thr
165 170 175
Tyr Ala Lys Met His Ala Ala Met Ile Ala Leu Phe Gly Gly Arg Glu

```
            180                 185                 190
Arg Ser Ser Thr Glu Trp His Gln Met Ala Gly Leu Ala Gly Leu Arg
        195                 200                 205
Val Thr Phe Glu Ala Tyr Pro Asp Phe Gly Glu Gly Leu Ile Glu Met
    210                 215                 220
Arg Lys Val Glu Ser Ser Ala
225                 230
```

<210> 25606
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25606

```
Leu Leu Phe Cys Pro Phe Ile Gly Gly Cys Gly Gln Ala Phe Gln Ala
1               5                   10                  15
Ile Ile Val Ser Pro Gln Phe Glu Lys Lys Asn Met Leu Ala Arg His
            20                  25                  30
Arg Leu Val Asn Ser Val Leu Lys Ser Glu Ile Ala Ala Ile His Ala
        35                  40                  45
Trp Thr Pro Lys Cys Tyr Thr Pro Glu Gln Trp Gln Ala Leu Gln Gln
    50                  55                  60
Gly Ser Ala
65
```

<210> 25607
<211> 73
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (32)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25607

```
Ser Tyr Gln Ala Glu Gly Phe Ser Gly Cys Gly Leu Pro Tyr Ala Leu
1               5                   10                  15
Trp Pro Ala Ile Val Tyr Arg Leu Pro Ala Tyr Ser Leu Thr Gln Xaa
            20                  25                  30
Ser Asp Val Asp Pro Ile Ile Phe Arg Gly Leu Lys Ser Leu Thr Leu
        35                  40                  45
Asn Asp Thr Gln Gln Gln Thr Leu Leu Arg Leu Ala Ser Glu Gly Ile
    50                  55                  60
Ser Val Tyr Ser Pro His Thr Ala Val
65                  70
```

<210> 25608
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25608

```
Cys Pro Asn Cys Ser Tyr Ser Ser His Pro Val Leu Leu Glu Ala Pro
1               5                   10                  15
Phe His Pro Ala Arg Arg Gln Lys Asn Ser Val Leu Leu Thr Ile Asp
```

```
            20                  25                  30
Leu Thr Lys Ala Val Ala Asp Glu Ala Ile Lys Arg Lys Asp Ser Val
        35                  40                  45
Val Val Ala Tyr Arg Met His Cys Gly Arg Gln Ser Ser Thr Gly Tyr
    50                  55                  60
Gln His Ile Arg
65
```

<210> 25609
<211> 153
<212> PRT
<213> A.fumigatus

<400> 25609

```
Tyr Asp Tyr Met Gln Val Val Tyr Gly Leu Glu Thr Gly Ala Val Tyr
1               5                   10                  15
Cys Val Gly Ala Trp Trp Lys Gly Leu Ala Asn Asn His Met Thr Asp
            20                  25                  30
Asp Gln Arg Ala Ala Leu Ser Pro Asp Ser Glu Glu Phe Arg Leu Arg
        35                  40                  45
Val Gly Gly Ser Lys Thr Gln Val Leu Gly Trp Ser Leu Tyr Thr Thr
    50                  55                  60
Leu Leu Trp Leu Leu Lys Ala Cys Met Ala Ile Phe Tyr Ser Arg Leu
65                  70                  75                  80
Thr Tyr Val Ser Pro Arg Leu Glu Val Val Thr Asp Thr Asp Thr Asp
                85                  90                  95
Ala Asp Thr Asp Ala Asp Ala Asp Gly Gln Gly Arg Ser Asp Gln His
            100                 105                 110
Ala Tyr Pro Arg Ala Cys Gly Leu Arg Gly His Arg Gly Asp Leu Ser
        115                 120                 125
Asp Cys Asp Ser Val Asp Pro Val Trp Leu Pro Ser Asp Ala Gln Glu
    130                 135                 140
Leu Ala Asp Leu Ser Lys Ser Trp Pro
145                 150
```

<210> 25610
<211> 169
<212> PRT
<213> A.fumigatus

<400> 25610

```
Arg Met Ser Arg Leu Val Trp Arg Ser Ser Leu Thr Pro Thr Leu Thr
1               5                   10                  15
Pro Ile Pro Thr Leu Thr Leu Thr Gly Arg Ala Gly Leu Ile Asn Met
            20                  25                  30
His Ile Arg Val Arg Val Ala Tyr Gly Ala Ile Gly Val Thr Tyr Leu
        35                  40                  45
Ile Val Ile Leu Ser Ile Leu Phe Gly Cys His Pro Met His Lys Asn
    50                  55                  60
Trp Gln Ile Tyr Pro Asn Pro Gly Arg Arg Cys His Ser Leu Glu Lys
65                  70                  75                  80
Val Ala Ser Thr Asp Val Leu Val Arg Cys Gln Pro Ala Ile Ala Pro
                85                  90                  95
Leu Asp Val Tyr Met Thr Val Thr Leu Asn Val Ala Thr Asp Ile Tyr
            100                 105                 110
Leu Ile Thr Ile Pro Thr Pro Val Arg Ser Phe Ser Tyr Ile Ser Ser
```

```
        115                 120                 125
Arg Pro Ser His Ile His Arg Cys Ser Ser Lys Arg Asp Phe Pro Gly
    130                 135                 140
Ala Arg Asn Ser Asn Ser Ser Ser Ser Ser Leu Val Glu Ser Ser Ser
145                 150                 155                 160
Trp Arg Pro Gly Ser Ser Ala Ala Phe
                165
```

<210> 25611
<211> 486
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (395),(479)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25611

```
Phe Thr Thr Ser Leu Arg Leu Pro Pro Thr Met Ser Asp Leu Pro Pro
1               5                   10                  15
Glu Arg Ser His Ser Arg Arg Asn Thr Asn Asp Leu Gly Leu Val Pro
            20                  25                  30
Thr Glu Thr Lys Glu Thr Leu His Glu Ala Gly Leu Ser Pro Asn Thr
        35                  40                  45
Pro Glu Ile Gly Ile Asn Tyr Pro Glu Val Gly Arg Pro Ala Asp Pro
    50                  55                  60
Val Phe Pro Glu Glu Tyr Asn Leu Glu Thr Gln Thr Gly Leu Val Pro
65                  70                  75                  80
Ala Arg Thr Leu Glu Ser Val Arg Thr Thr Thr Trp Thr Gly Arg Gln
                85                  90                  95
Ile Ser Pro Ala Asp Leu Glu Lys Gly Gly Glu Pro Val Asp Phe Val
            100                 105                 110
Thr Phe Thr Ile Asn Asp Pro Asp Asn Pro His Asn Trp Ser His Val
        115                 120                 125
Tyr Arg Trp Tyr Val Thr Ile Val Val Ser Met Leu Val Val Cys Val
    130                 135                 140
Ala Tyr Gly Ser Ala Phe Val Thr Gly Gly Leu Gly Leu Ile Glu Asp
145                 150                 155                 160
Lys Tyr His Val Ser Leu Glu Val Ala Thr Leu Thr Val Ser Ile Met
                165                 170                 175
Val Cys Gly Phe Ala Val Gly Pro Leu Leu Trp Ser Pro Leu Ser Glu
            180                 185                 190
Ile Ile Gly Arg Arg Pro Val Tyr Val Ile Ser Leu Gly Leu Tyr Thr
        195                 200                 205
Ile Phe Gln Ile Pro Cys Ala Leu Ser Pro Asn Ile Gly Gly Leu Leu
    210                 215                 220
Ala Cys Arg Phe Leu Ser Gly Val Phe Ser Ser Ser Gly Leu Ser Leu
225                 230                 235                 240
Ala Gly Gly Thr Ile Ala Asp Val Trp Asn Ile Glu Glu Arg Gly His
                245                 250                 255
Gly His Cys Val Leu Arg Arg Ser Thr Leu Leu Arg Ser Arg Arg Gly
            260                 265                 270
Pro His Arg Met Arg Leu Asp Gln Arg Arg Phe Ala Pro Pro Gly Pro
        275                 280                 285
Leu Leu Pro Gly Gln His Gly Leu Cys Arg Arg Gly His Asp Arg Arg
```

```
    290                 295                 300
Pro Ala Gly Thr Arg Lys Leu Arg Pro Cys His Ser Glu Ala Pro Arg
305                 310                 315                 320
Gln Lys Ala Pro Pro Gly Asn Arg Gln Pro Gln His His His Arg Ala
                325                 330                 335
Gly Lys Ser Gln Thr Glu Leu Gln Gly Asp Arg Ala His Glu Leu Arg
            340                 345                 350
Pro Pro Asp His His Asp Pro His Arg Ala Arg Pro Arg Pro Asp Val
        355                 360                 365
His Val His Arg Pro His Leu Arg His Ala Leu Arg Leu Leu Leu Arg
    370                 375                 380
Leu Pro Arg Tyr Leu Arg Arg Ile Val Arg Xaa Gln Arg Arg Thr Asp
385                 390                 395                 400
Arg Pro Asp Val His Pro Asp Ser Asp Arg Arg Arg Phe Arg Ala Ser
                405                 410                 415
Arg His Pro Pro His Gly Glu Ala Val Pro Ala His Leu Pro Val Ser
            420                 425                 430
Arg Pro Asp Ala Arg Arg Pro Thr His Arg Gly Ala Ser Arg Ser Pro
        435                 440                 445
Leu Tyr Pro Asp Arg Asn Val His Ser Arg Arg Tyr Val Val Gln Thr
    450                 455                 460
Tyr Tyr Leu Gly Trp Ala Arg Val Val Gly Tyr Arg Val Arg Xaa Thr
465                 470                 475                 480
Arg Arg Gly Lys Val Arg
                485
```

<210> 25612
<211> 313
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (223),(307)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25612

```
Pro Ser Pro Ser Trp Ser Val Gly Leu Arg Leu Gly Arg Cys Ser Gly
1               5                   10                  15
Val Leu Cys Arg Arg Ser Ser Ala Val Val Pro Cys Met Ser Ser Arg
            20                  25                  30
Ser Asp Cys Thr Pro Ser Ser Arg Tyr Pro Ala Arg Phe Leu Pro Ile
        35                  40                  45
Ser Val Asp Cys Trp Pro Ala Val Ser Leu Ala Ala Ser Ser Pro Val
    50                  55                  60
Pro Val Cys Arg Trp Leu Ala Gly Pro Leu Arg Met Ser Gly Ile Ser
65                  70                  75                  80
Lys Ser Ala Gly Met Ala Ile Ala Phe Phe Ala Ala Ala Pro Tyr Cys
                85                  90                  95
Gly Pro Val Val Gly Pro Ile Val Cys Gly Trp Ile Asn Val Gly Ser
            100                 105                 110
His Arg Leu Asp Leu Phe Phe Leu Asp Asn Met Ala Phe Ala Gly Val
        115                 120                 125
Val Met Ile Val Val Arg Leu Val Pro Glu Asn Tyr Ala Pro Val Ile
    130                 135                 140
Leu Lys Arg Arg Ala Lys Lys Leu Arg Gln Glu Thr Gly Asn Pro Asn
```

```
145                 150                 155                 160
Ile Ile Thr Glu Gln Glu Lys Val Lys Leu Ser Phe Arg Glu Ile Val
                165                 170                 175
Arg Thr Asn Phe Val Arg Pro Ile Thr Met Ile Leu Thr Glu Pro Val
            180                 185                 190
Leu Asp Leu Met Cys Met Tyr Ile Val Leu Ile Tyr Ala Met Leu Tyr
        195                 200                 205
Gly Phe Phe Phe Ala Phe Pro Val Ile Phe Gly Glu Leu Tyr Xaa Tyr
    210                 215                 220
Asn Asp Gly Gln Ile Gly Leu Met Phe Ile Pro Ile Leu Ile Gly Ala
225                 230                 235                 240
Gly Phe Ala Leu Leu Val Thr Pro Leu Met Glu Lys Gln Phe Arg Arg
                245                 250                 255
Ile Cys Gln Ser Arg Ala Pro Thr Pro Glu Asp Arg Leu Ile Ala Ala
            260                 265                 270
Leu Leu Gly Ala Pro Phe Ile Pro Ile Ala Met Phe Ile Leu Gly Ala
        275                 280                 285
Thr Ser Phe Lys His Ile Ile Trp Val Gly Pro Ala Ser Ser Gly Ile
    290                 295                 300
Ala Phe Xaa Ala His Ala Gly Ala Lys
305                 310
```

<210> 25613
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25613

```
Arg Gly Met Phe Gln Pro Arg Gly Glu Asp Pro Pro Val Gly Gly Ile
1               5                   10                  15
Ala Asn Gly Ala Met Val Leu Asp Asp Lys Leu Phe Ile Asp Met Pro
            20                  25                  30
Phe Glu Ser Phe Gln Ala Ala Met Lys Pro Lys Val Gln Gly Ser Ile
        35                  40                  45
Tyr Leu Glu Glu Val Phe Ser Ala Asp Asn Leu Asp Phe Phe Leu Phe
    50                  55                  60
Phe Ser Ser Ile Ser Val Met Thr Gly Gln Arg Thr Gln Ala Asn Tyr
65                  70                  75                  80
Val Ala Ala Asn Asn Ala Ser Leu Thr Pro Phe Ser Pro Leu Ser Arg
                85                  90                  95
Arg Phe
```

<210> 25614
<211> 164
<212> PRT
<213> A.fumigatus

<400> 25614

```
Phe Met Val Ala Met Ala Glu Arg Arg Arg Ala Arg Gly Leu Pro Ala
1               5                   10                  15
Ser Val Ile Asp Ile Gly Met Val Val Gly Ile Gly Val Ile Gln Arg
            20                  25                  30
Ser Gln Asn Asp Lys Gly Val Ser Ala Met Glu Asn Ser Ile Arg Gln
        35                  40                  45
Met Asp Tyr Met Pro Val Ser Glu Thr Asp Leu His His Leu Leu Ala
```

```
    50                  55                  60
Glu Ala Ile Leu Val Gly Gln Arg Asp Glu Ser Pro Glu Leu Ile Thr
65                  70                  75                  80
Gly Leu Glu Thr Tyr Lys Pro Val Glu Gly Glu Ala Pro Phe Trp His
                85                  90                  95
His Asn Val Arg Phe Ser His Leu Ile Thr Asp Pro Asp Ala Ala Gln
            100                 105                 110
Ala Gly Ala Asp Ser Ala Gly Ser Ala Gln Lys Ser Leu Lys Glu Met
        115                 120                 125
Leu Leu Ser Ser Gly Gly Pro Glu Glu Ala Arg Lys Val Met Glu Asn
    130                 135                 140
Ala Leu Leu Gln Tyr Leu Ala Ser Ser Leu Lys Val Ser Thr Ala Leu
145                 150                 155                 160
Phe Lys Pro Ser
```

<210> 25615
<211> 237
<212> PRT
<213> A.fumigatus

<400> 25615

```
Leu Ser Arg Glu Thr Ile Tyr Thr Asp Val Pro Ile Ile Asp Leu Gly
1               5                   10                  15
Ile Asp Ser Leu Val Ala Val Gln Ile Arg Asn Trp Thr Trp Ala Glu
            20                  25                  30
Ala Gly Tyr Asp Leu Pro Val Leu Lys Ile Leu Gly Gly Ser Ser Val
        35                  40                  45
Thr Gln Ile Cys Asp Glu Val Val Ala Ser Leu Ser Phe Asp Lys Ser
    50                  55                  60
Ser Ile Ala Ala Ala Lys Val Asp Ser Gln Ala Ala Pro Ala His Lys
65                  70                  75                  80
Leu Arg Pro Trp Asp Lys Pro Ser Ala Asp Thr Lys Arg Thr Asp Ser
                85                  90                  95
Ile Ala Pro Val Pro Arg Ser Gln Ile Ala Ala Asn Gly Pro Asn Gly
            100                 105                 110
Leu Pro Asn Gly Ala Leu Lys Lys Ala Ser Lys Leu Ala Val Lys Val
        115                 120                 125
Arg Pro Leu Trp Thr Thr Gln Ala Gly Gly Lys Asp Thr Lys Lys Gly
    130                 135                 140
Pro Arg Pro Ala Pro Ile Arg Ile Gln Pro Leu Ser Leu Gly Gln Tyr
145                 150                 155                 160
Arg Leu Tyr Phe Leu Ser Gln Tyr Met Asp Asp Asp Arg Val Leu Asn
                165                 170                 175
Cys Thr Ile Ser Tyr Ala Leu Ser Gly Lys Leu Asp Val Ser Lys Leu
            180                 185                 190
Glu Gln Ser Leu Ile Gln Val Val Gln Arg His Glu Ala Leu Arg Thr
        195                 200                 205
Ser Phe Tyr Thr Asp Glu Lys Asp Ala Lys Pro Ser Leu Leu Pro Gln
    210                 215                 220
Gly Pro Lys Asp Pro Arg Ile Arg Leu Arg Thr Gly Glu
225                 230                 235
```

<210> 25616
<211> 67
<212> PRT

<213> A.fumigatus

<400> 25616
Gln Leu Tyr Ser Ala Ile Gly Pro Ala Arg Leu Tyr Asn Ile Gly Gln
1 5 10 15
Arg Tyr Ser Gly Leu Leu His Met Phe Trp Ile Gly Ala Ser Leu Pro
20 25 30
Ile Ile Thr Tyr Phe Ile Arg Lys Arg Phe Pro Lys Ser Arg Phe Val
35 40 45
Asp Ala Ile His Trp Pro Ile Phe Phe Ala Gly Thr Gly Asn Leu Pro
50 55 60
Pro Ala Val
65

<210> 25617
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25617
Pro Phe Leu Pro Asp Gly Val Leu Ile Trp Met Leu Gly Asn Val Lys
1 5 10 15
Asp Val Cys Ser Ser Asp Gln Pro Asp Asn Phe Thr Cys Pro Gln Gly
20 25 30
Arg Val Asn Tyr Asn Ser Ala Ile Phe Trp Gly Gly Thr Ser Leu Pro
35 40 45
Ile Leu Tyr Pro Lys Ser His Thr Asp Ser Phe Ile Gln Pro Leu Gly
50 55 60
Pro His Asp Tyr Ile Thr Ser Ala Arg Asp Ile Leu Val Phe Cys Thr
65 70 75 80
Cys Phe Gly

<210> 25618
<211> 94
<212> PRT
<213> A.fumigatus

<400> 25618
Leu Ser Ala Leu Gln Thr Arg Cys Asn His Glu Ile Leu Thr Gly Trp
1 5 10 15
Gln Val Ile Lys Gly Arg Arg Pro His Trp Trp Ala Lys Tyr Asn Tyr
20 25 30
Val Leu Ser Ala Ala Leu Asp Ser Gly Val Ala Val Ala Ala Ile Leu
35 40 45
Ile Phe Phe Ser Leu Ile Phe Pro Gly Val Ser Leu Ser Trp Trp Gly
50 55 60
Asn Thr Val Asn Ser Gly Thr Val Asp Ala Lys Gly Thr Pro Trp Lys
65 70 75 80
Glu Leu Gly Leu Asn Glu Thr Phe Gly Glu Arg Thr Trp Ser
85 90

<210> 25619
<211> 180
<212> PRT
<213> A.fumigatus

<400> 25619
Arg Ala Gly Arg Lys Ile Asp Ser Arg Val Ser Phe His Cys Val Tyr
1 5 10 15
Trp Pro Ala Phe Leu Met Ala Leu Asp Leu Pro Leu Pro Arg Arg Val
20 25 30
Leu Ile His Gly His Trp Thr Ile Asn Arg Glu Lys Met Ser Lys Ser
35 40 45
Thr Gly Asn Val Val Asn Pro Phe Phe Ala Ile Asp Arg Phe Gly Val
50 55 60
Asp Thr Met Arg Phe Phe Leu Ala Phe Gln Gly Gly Leu Ala Gly Asp
65 70 75 80
Ala Asp Tyr Asp Asn Ser Tyr Ile Ile Arg Asp Tyr Lys Lys Leu Leu
85 90 95
Gln Trp Gly Ile Gly Asn Leu Thr His Arg Thr Ile Gly Cys Ala Lys
100 105 110
Gly Asn Leu Arg Ser Tyr Ile Ala Asp Ala Ala Ala Asp Lys Leu Pro
115 120 125
Ala Pro Thr Pro Glu Asp Leu Glu His Gln Ser Leu Leu Glu Gln Thr
130 135 140
Pro Asp Lys Val Ala Glu Gln Met Glu Lys Leu Asn Pro Arg Ala Ala
145 150 155 160
Leu Gln Asp Ile Met Ala Ile Ile Glu Lys Val Ser Val Glu Ser Pro
165 170 175
Tyr His Asn Asp
180

<210> 25620
<211> 92
<212> PRT
<213> A.fumigatus

<400> 25620
Pro Gln Thr Asn Lys Tyr Phe His Ala Ala Glu Pro Trp Lys Thr Pro
1 5 10 15
Ala Gly Ser Gln Arg Ala Leu Tyr Asn Val Ala Glu Ser Leu Arg Ile
20 25 30
Ser Gly Ile Leu Leu Gln Pro Phe Met Pro Ser Lys Ser Thr Glu Leu
35 40 45
Leu Asp Ile Leu Arg Val Asp Lys Thr Glu Pro Ser Lys Arg Ser Phe
50 55 60
Ser Ala Ala Arg Tyr Gly Cys Asp Pro Asp Tyr Gly Glu Gly Val Lys
65 70 75 80
Lys Ser Ile Leu Phe Pro Pro Leu Ile Ile Glu Glu
85 90

<210> 25621
<211> 443
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25621

```
Ser Ser Pro Gly Cys Tyr Asn Lys Xaa Cys Met Ile Leu Ala Ala His
1               5                  10                  15
Val Val Lys His Leu Ile Ser Phe Ser Thr Glu Ala Tyr Ala Ala His
            20                  25                  30
Ile Arg Gly Ile Pro Gly Pro His Ile Gly Pro Gly Leu Gly Tyr Ala
        35                  40                  45
Phe Gly Leu Tyr Ala Met Gln Val Leu Gln Ser Leu Thr Met Asn His
    50                  55                  60
Ala Leu Tyr Arg Gly Met Val Val Gly Gly Met Ala Lys Ala Gly Leu
65                  70                  75                  80
Thr Ser Gln Ile Phe Ala Lys Ala Met Arg Leu Ser Asn Arg Ala Arg
                85                  90                  95
Ala Gly Gly Lys Gln Ala Asn Asp Thr Gly Pro Lys Ser Ala Glu Gly
            100                 105                 110
Ser Pro Ser Gly Ala Ala Ala Asn Asp Ala Ala Lys Glu Thr Ala Gly
        115                 120                 125
Trp Ser Asn Gly Arg Ile Thr Thr Leu Leu Gly Val Asp Val Asp Arg
    130                 135                 140
Ile Asp Thr Ala Ser Gly Met Leu His Met Leu Trp Val Ala Pro Ile
145                 150                 155                 160
Gly Leu Ile Val Ala Leu Ile Ile Leu Ile Val Asn Ile Gly Tyr Ser
                165                 170                 175
Ala Leu Ala Gly Tyr Ala Leu Leu Val Val Gly Val Phe Ala Leu Ala
            180                 185                 190
Trp Ala Met Arg Leu Leu Val Gln Phe Arg Arg Ala Ile Asn Lys Ile
        195                 200                 205
Thr Asp Gln Arg Val Thr Leu Thr Arg Glu Ile Leu Tyr Ser Val Arg
    210                 215                 220
Phe Val Lys Phe Phe Gly Trp Glu Ser Ser Phe Leu Lys Arg Leu Glu
225                 230                 235                 240
Ala Val Arg Asn Arg Glu Ile Gly Ser Ile Lys Arg Leu Leu Phe Val
                245                 250                 255
Arg His Ala Val Val Val Cys Met Val Ser Leu Pro Thr Phe Ala Ser
            260                 265                 270
Leu Leu Ser Phe Val Thr Tyr Ala Leu Ser Asp His Ser Leu Ser Pro
        275                 280                 285
Asp Arg Ile Phe Ala Ser Leu Ala Leu Phe Asn Val Leu Arg Met Pro
    290                 295                 300
Leu Ile Met Leu Asn Leu Thr Ile Thr Gln Met Thr Asp Ala Trp Thr
305                 310                 315                 320
Ala Met Asn Arg Ile Gln Glu Phe Leu Gln Ala Glu Glu Lys Ser Asp
                325                 330                 335
Pro Val Glu Trp Asp Thr Gly Met Asp Lys Ala Ile Glu Val Glu His
            340                 345                 350
Ala Ser Phe Thr Trp Glu Gln Val Gln Ser Asn Lys Gly Glu Glu Lys
        355                 360                 365
Lys Gly Glu Lys Pro Lys Arg Ser Gln Val Leu Pro Lys Asp Ala Thr
    370                 375                 380
Pro Ser Ser Pro Ser Asp Asp Lys Ser Asp Thr Thr Glu Leu Val Pro
385                 390                 395                 400
Phe Lys Leu Thr Asp Ile Asn Phe Glu Val Gly Arg Gly Glu Leu Leu
                405                 410                 415
Ala Val Ile Gly Thr Val Gly Ser Gly Lys Ser Ser Leu Leu Gly Ala
            420                 425                 430
Leu Ala Gly Val Phe Thr Thr Gly Leu Glu Gly
```

435 440

<210> 25622
<211> 402
<212> PRT
<213> A.fumigatus

<400> 25622

```
His Gln Pro Arg Ser Phe Gln Pro Arg Gly Glu Asp Ile Gln Ile Ala
1               5                  10                  15
Ala Thr Ile Cys Glu Trp Met Tyr Val Pro Arg Arg Trp Ala Gly Ala
            20                  25                  30
Gln His Leu Thr Lys Arg Leu Met Phe Leu Ile Leu Val Phe Val Ile
        35                  40                  45
Asn Leu Ala Pro Gly Val Phe Val Phe Ala Tyr Ser Lys Ser Met Gly
    50                  55                  60
Ile Ser Lys Thr Ile Pro Leu Ile Val Gly Ile Val His Phe Phe Val
65                  70                  75                  80
Ala Leu Ala Thr Phe Val Phe Phe Ser Val Met Pro Leu Gly Gly Leu
                85                  90                  95
Phe Gly Ser Tyr Leu Lys Lys His Gly Arg Gln Tyr Val Ala Ser Gln
            100                 105                 110
Thr Phe Thr Ala Ser Phe Pro Arg Leu His Gly Asn Asp Met Trp Met
        115                 120                 125
Ser Tyr Gly Leu Trp Val Cys Val Phe Gly Ala Lys Leu Ala Glu Ser
    130                 135                 140
Tyr Phe Phe Leu Thr Leu Ser Phe Lys Asp Pro Ile Arg Ile Leu Ser
145                 150                 155                 160
Pro Met Gln Ile His Gln Cys Ala Gly Val Lys Tyr Ile Gly Asn Val
                165                 170                 175
Leu Cys His Lys Gln Pro Gln Ile Leu Leu Gly Leu Met Phe Phe Met
            180                 185                 190
Asp Leu Thr Leu Phe Phe Leu Asp Ser Tyr Leu Trp Tyr Ile Ile Cys
        195                 200                 205
Asn Thr Val Phe Ser Val Ala Arg Ser Phe Tyr Leu Gly Val Ser Ile
    210                 215                 220
Trp Ser Pro Trp Arg Asn Ile Phe Ser Arg Leu Pro Lys Arg Ile Tyr
225                 230                 235                 240
Ser Lys Val Leu Ala Thr Thr Asp Met Glu Ile Lys Tyr Lys Pro Lys
                245                 250                 255
Val Leu Ile Ser Gln Val Trp Asn Ala Ile Ile Ile Ser Met Tyr Arg
            260                 265                 270
Glu His Leu Leu Ala Ile Asp His Val Gln Lys Leu Leu Tyr His Gln
        275                 280                 285
Val Pro Ser Glu Gln Glu Gly Lys Arg Thr Leu Arg Ala Pro Thr Phe
    290                 295                 300
Phe Val Ser Gln Glu Asp Gln Ser Phe Lys Thr Glu Phe Phe Pro Pro
305                 310                 315                 320
Gly Ser Glu Ala Glu Arg Arg Ile Ser Phe Phe Ala Gln Ser Leu Ser
                325                 330                 335
Thr Pro Met Pro Glu Pro Leu Pro Val Asp Asn Met Pro Thr Phe Thr
            340                 345                 350
Val Leu Ile Pro His Tyr Ser Glu Lys Ile Leu Leu Ser Leu Arg Glu
        355                 360                 365
Ile Ile Arg Glu Asp Glu Pro Tyr Ser Arg Val Thr Leu Leu Glu Tyr
    370                 375                 380
```

```
Leu Lys Gln Leu His Pro His Glu Trp Asp Cys Phe Val Lys Asp Thr
385                 390                 395                 400
Lys Met


<210> 25623
<211> 256
<212> PRT
<213> A.fumigatus

<400> 25623
Arg His Thr Arg Leu Gly Gly Gly Ser Ile Val Gly Lys Gly Tyr Ser
1               5                   10                  15
Asp Asp Gly Tyr Thr Val Thr Asp Gly Tyr Thr Asp Thr Ala Thr Thr
            20                  25                  30
Ile Thr Glu Lys Glu Glu Gly Asp His Lys Arg Lys Arg Arg Phe Arg
        35                  40                  45
Glu Thr Ala Lys Gln Lys Leu Leu Arg Lys Arg Lys Asp Glu Asn Trp
    50                  55                  60
Glu Cys Glu Ser Asp Glu Asp Val Arg Ala Tyr Arg Lys Glu Lys Pro
65                  70                  75                  80
Ala Arg Ile Gly Gly Ile Asn Cys Glu Gly Asp Gly Thr Tyr His Gly
                85                  90                  95
Ser Asp Tyr Asp Thr Ser Asn Pro Pro Thr Ser His Asn Ala Ser Glu
            100                 105                 110
Met Ser Glu Val Arg Asp Tyr Ala Tyr Glu Pro Pro Arg Gln Ser Arg
        115                 120                 125
Asn Phe Ser Phe Thr Pro Gly Ser Glu Glu Val Leu Ser His Thr Thr
    130                 135                 140
Glu Glu Arg Gln His Leu Arg Glu Pro Ser Ala Arg Arg His Asn Arg
145                 150                 155                 160
Arg Arg Glu Arg Arg Arg Ala Pro Pro Thr Thr Pro Ser Arg Gln Gly
                165                 170                 175
Ser Pro Arg Lys Arg Asp Arg Leu Ser Val Pro Gly His Tyr Thr Glu
            180                 185                 190
Pro Leu Asp Phe Ser Ser Ala Gly Ser Arg Ser Glu Tyr Gln Tyr Ser
        195                 200                 205
Asn Val Glu Thr Asp Asp Gly Ser Gly Thr Lys His Tyr His His Pro
    210                 215                 220
Ile Pro Gly Leu Ser Lys Gly Tyr Arg Arg Glu Gly Gly Arg Asn Arg
225                 230                 235                 240
Arg Arg Asp Ser Leu Ser Asp Ser Asp Gly Asp Glu Thr Arg Tyr Ser
                245                 250                 255

<210> 25624
<211> 248
<212> PRT
<213> A.fumigatus

<400> 25624
Ser Gly Gly Lys Tyr Gln Val Ser Thr Leu Gln Ser Thr Leu Arg Ala
1               5                   10                  15
Ala Pro Tyr Ser Leu Pro Val Val Thr Ile Ser Leu Asp Asp Phe Tyr
            20                  25                  30
Leu Thr His Glu Gln Gln Gln Ile Leu Ala Lys Thr Phe Pro Ser Asn
        35                  40                  45
```

```
Pro Leu Leu Gln His Arg Gly Gln Pro Ala Thr His Asp Leu Pro Leu
    50                  55                  60
Ala Glu Lys Val Phe Glu Ser Leu Cys Ala Gly Arg Pro Thr Ala Ile
65                  70                  75                  80
Pro Gln Tyr Asp Lys Ser Ala Tyr Ser Gly Gln Gly Asp Arg Val Pro
                85                  90                  95
Glu Ser Gln Trp Glu Thr Val Asn Gly Asp Gly Gln Asp Lys Ile Lys
            100                 105                 110
Val Val Ile Phe Glu Gly Trp Cys Val Gly Phe Arg Ala Leu Asp Glu
        115                 120                 125
Asp Val Leu Arg Glu Lys Trp Glu Ala Ala Val Arg Gln Lys Asp Gln
    130                 135                 140
Gly Gly Tyr Asn Gly Arg Leu Gly Tyr Val Lys Phe Glu Asp Val Lys
145                 150                 155                 160
Ala Val Asn Asp Ala Leu Arg Lys Tyr Asp Val Leu Thr Glu Phe Val
                165                 170                 175
Ser Leu Pro Ser Trp Ile Ala Leu Asp Val Asp Ala Asn Cys Ser Ser
            180                 185                 190
Glu Pro Ala Arg Arg Ile Gly Ser Tyr Val Ser Ala Thr Leu Leu His
        195                 200                 205
Ser Leu Ser Tyr Gln Tyr Pro Leu Ala Lys His Leu Gln Ala Met Arg
    210                 215                 220
Lys Thr Ser Thr Leu Ser Thr Thr Gly Asp Arg Asn Arg Arg Glu Arg
225                 230                 235                 240
Cys Val Gln Ser Lys Glu Arg Glu
                245
```

<210> 25625
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (50),(51),(52),(53),(54),(55),(56),(57),(58),(73)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25625

```
Tyr Met Thr Asp Tyr Pro Ser Tyr Glu Leu Phe Thr Glu Ala Leu Arg
1               5                   10                  15
Glu Gly Ala Phe Lys Pro Ala Ser Asn Ser Thr Asp Thr Asn Trp Gln
            20                  25                  30
Gly Arg Gln Leu Arg Leu Ile Val Asn Lys Glu Arg Arg Val Asp Gly
        35                  40                  45
Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Leu Asn Ile Tyr Ala
    50                  55                  60
His Ser Thr Thr Pro Leu Asp Thr Xaa Asn
65                  70
```

<210> 25626
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25626

```
Thr Ser Pro Ser Asp Ala Gln Asp Leu His Phe Val Tyr Asp Trp Arg
```

```
1               5                   10                  15
Gln Glu Gln Glu Arg Thr Leu Arg Ala Ile Lys Gly Thr Gly Met Thr
            20                  25                  30
Glu Glu Gln Val Ser His Phe Val Asp Gly Cys Thr Tyr Val Glu Leu
        35                  40                  45
Val Asp Asp Arg Arg Leu Ile Tyr Asp Arg Leu Pro Val Leu
    50                  55                  60
```

<210> 25627
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25627

```
Pro Thr Ser Trp Tyr Ser Ser Gln Asn Asn Arg Ser Arg Ser Ala Asn
1               5                   10                  15
Asn Asn Asp Asp Lys Asn Ser Gln Lys Leu Gly Thr His Leu Gly Ile
            20                  25                  30
Leu Thr Val Leu Ala Arg Tyr Leu Lys Glu Glu Ser Asn Leu Ile Met
        35                  40                  45
Thr Met Ile Asn Tyr Val Thr Val Val Ser Ala Gln Glu Thr Lys Glu
    50                  55                  60
Gln Pro Ala Thr Glu Leu Gly
65                  70
```

<210> 25628
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25628

```
Asp Met Thr Ile Glu Ala Leu Glu Lys Leu Arg Leu Cys Lys Gln Ile
1               5                   10                  15
Glu Ala Met Gln Ile Pro Val Ala Leu Leu Ser Ser Ala Arg Asp Ser
            20                  25                  30
Pro Tyr Trp Thr Ile Cys Asn Ala Leu Ile Glu Asn Ala Tyr Leu Asp
        35                  40                  45
Phe Glu Ile Arg Lys Gln Asp Val Ser Leu Asp Cys Pro Trp Glu Asn
    50                  55                  60
Ser Ile Ser Tyr Ser Ser Arg Ser Arg Val Val Asn Gln Ser Thr Ser
65                  70                  75                  80
Trp Thr Pro Thr
```

<210> 25629
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25629

```
Thr Asp Met Leu Thr Lys Arg Lys Asp Ile Ser Met Pro Val Met His
1               5                   10                  15
Gly Phe Glu Ala Thr Arg Ala Ile Arg Ala Leu Glu Lys Glu Arg Asp
            20                  25                  30
Gly Cys Gly Pro Ala Thr Ile Ile Ala Leu Thr Gly Leu Ser Ser Ser
        35                  40                  45
```

```
Arg Asp Glu Ser Glu Ala Leu Thr Ser Gly Val Asp Leu Phe
    50                  55                  60

<210> 25630
<211> 404
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (48)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25630
Asp Trp Ala Gly Val Ser Val His Leu Glu Ser Thr Glu Ala Phe Glu
1               5                  10                  15
Ser Arg Ser Arg Arg His Gly Val Glu Glu Leu Val Thr Leu Thr Val
            20                  25                  30
Ser Asp Thr Gly Lys Gly Ile Ser Glu Ala Phe Leu Arg Gly Arg Xaa
        35                  40                  45
Phe Thr Pro Phe Ala Gln Glu Asp Thr Leu Ala Val Gly Thr Gly Leu
    50                  55                  60
Gly Leu Ser Ile Val Arg Ser Phe Val Lys Ala Leu Asn Gly Ile Ile
65                  70                  75                  80
Asn Val His Ser Arg Pro Gly Glu Gly Thr Thr Val Lys Val Ser Leu
                85                  90                  95
Pro Leu Thr Arg Pro Asp Pro Glu Asp Ser Leu Glu Asp Ser Leu Pro
            100                 105                 110
Ser Arg Gln Asp Asp Thr Met Asn Glu Ala Phe Ser Leu Arg Asn Ser
        115                 120                 125
His Gly Gly Arg Arg Val Ala Ile Phe Gly Val Glu Pro Ala Asp Ala
    130                 135                 140
Cys Glu His Arg Leu Trp Ser Ile Ile Ala Arg Tyr Leu Thr Asp Trp
145                 150                 155                 160
Tyr Gly Leu Glu Leu Val Ser Leu Ser Ser Gln Glu Pro Ile Asp Val
                165                 170                 175
Leu Leu Ala Asp Glu Asp Ser Leu Ala Ser Ile Ser Lys Glu Ala Val
            180                 185                 190
Thr Gly Ile Ile Leu Ser Leu Leu Ile Leu Cys Asn Lys Ser Val Asp
        195                 200                 205
Tyr Ser Ala Ile Arg Ala Glu Trp Ser Pro Ile Ala Ala Leu Val Asp
    210                 215                 220
Ile Ile Arg Arg Pro Cys Gly Pro His Lys Leu Ala Arg Cys Ile Arg
225                 230                 235                 240
Lys Cys Leu Asp Asn Gly Pro Arg Gly Gly Ala Thr Leu Pro Pro Arg
                245                 250                 255
Ile Glu Leu Pro Glu Arg Pro Arg Met Ser Asn Gly Ile Pro Pro Pro
            260                 265                 270
Cys Ala Asp Leu Thr Glu Ala Asp Pro Leu Ala Ala Ser Gly Asp Arg
        275                 280                 285
Thr Arg Ala Thr Ser Phe Arg Val Gly Thr Leu Ser Ser Ser Glu Asp
    290                 295                 300
Ser Gly Glu Ser Gln Ser Ser Ser Asp Ile Ala Asp Ala Leu His Gly
305                 310                 315                 320
Ser Asp Thr Ser Met Ser Pro Leu Pro Thr Pro Ser Glu Thr Ala Ser
                325                 330                 335
```

```
Lys Arg Ile Glu Arg Lys Ala Arg Val Leu Val Val Asp Asp Asn Ser
            340                 345                 350
Ile Asn Leu Asn Leu Met Leu Thr Phe Met Lys Lys Gln Glu Leu Glu
        355                 360                 365
Val Leu Asp Ser Ala Glu Asn Gly Lys Val Ala Val Asp Ala Val Glu
    370                 375                 380
Arg Met Gln Gln Gly Tyr Asp Leu Ile Phe Met Gly Arg Arg Leu Asn
385                 390                 395                 400
Pro Arg Leu Asp
```

<210> 25631
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25631

```
Tyr Leu Leu Ile Ala Arg Leu Leu Leu Leu Ser Ser Leu Ser Leu Asn
1               5                   10                  15
Pro Leu Ser Phe Gln Ala Pro Pro Ser Arg Trp Val Phe Leu Asn Met
            20                  25                  30
Ala Val Asp Glu Lys Thr Asp Ala Gln Phe His Glu Thr Val Pro Thr
        35                  40                  45
Arg Asp Ala Asp Val Gly Asp Ala Ile Glu Leu Ala Gln Gln Ala Ala
    50                  55                  60
Ser Ala Lys Tyr Ser Pro Trp Thr Pro Asn Met Phe Pro Leu Tyr Arg
65                  70                  75                  80
Cys Leu Thr Ile Ala Tyr
                85
```

<210> 25632
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25632

```
Ala Arg Leu Arg Arg Val Ser Phe Cys Tyr Tyr Pro Ile Pro Ser Ser
1               5                   10                  15
Leu Ser Leu Ser Ala Thr Met Thr Leu Ser Ala Val Pro Asp Tyr Glu
            20                  25                  30
Asn Gln His Ile Leu Gln Arg Asn Arg Leu Lys Pro Arg Ala Tyr Phe
        35                  40                  45
Leu Pro Ala Thr Ser Ile Ser Leu Asn Gly Arg Trp Asp Phe His Tyr
    50                  55                  60
Ala Ala Ser Pro Val Ser Ala Pro Glu Pro Thr Trp Ser Lys Gly Thr
65                  70                  75                  80
Lys Asn Ala Thr Ala Glu Pro Arg Arg Asp Ser Asn Gln Phe Ser Ser
                85                  90                  95
Asp Gly Ala Asp Ser Lys Thr Ala Trp Ala Pro Ile Thr Val Pro Gly
            100                 105                 110
His Trp Gln Leu Gln Gly Tyr Gly Arg Pro His Tyr Thr Asn Val Ile
        115                 120                 125
Tyr Pro Phe Pro Val Cys Pro Pro Phe Val Pro Thr Glu Thr Pro Thr
    130                 135                 140
Met Gly Gly Ser Val Val Ile Ile Ile Leu Leu Ile Val Ile Ser Ile
145                 150                 155                 160
```

Val

<210> 25633
<211> 232
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25633
Xaa Trp Asp Arg His Tyr Leu Phe Val Arg Gly Glu Arg Xaa Met Ile
1 5 10 15
Phe Ser Gly Glu Phe His Pro Phe Arg Leu Pro Val Pro Gly Leu Trp
20 25 30
Phe Asp Val Phe Gln Lys Ile Lys Ser Leu Glu Phe Asn Ala Val Ser
35 40 45
Phe Tyr Thr Asp Trp Gly Leu Met Glu Gly Asn Pro Gly His Val Val
50 55 60
Thr Asp Gly Ile Trp Ser Leu Asp Glu Phe Phe Thr Ala Ala Arg Glu
65 70 75 80
Ala Gly Leu Tyr Leu Ile Ala Arg Pro Gly Pro Tyr Ile Asn Ala Glu
85 90 95
Thr Ser Ala Gly Gly Ile Pro Gly Trp Val Leu Arg Arg Lys Gly Ile
100 105 110
Ile Arg Ser Asn Ser Glu Asp Tyr Leu Arg Ala Thr Asp Thr Tyr Met
115 120 125
Ala Thr Leu Gly Lys Ile Ile Ala Lys Ala Gln Ile Thr Asn Gly Gly
130 135 140
Pro Val Ile Leu Val Gln Pro Glu Asn Glu Tyr Thr Thr Trp Pro Asn
145 150 155 160
Val Ser Glu Ser Glu Phe Pro Thr Thr Met Asn Gln Glu Val Met Ala
165 170 175
Tyr Ala Glu Lys Gln Leu Arg Asp Ala Gly Val Val Val Pro Thr Val
180 185 190
Val Asn Asp Asn Lys Asn Leu Gly Tyr Phe Ala Pro Gly Thr Gly Leu
195 200 205
Gly Glu Thr Asp Leu Tyr Gly Ile Asp Ala Tyr Pro Met Arg Tyr Asp
210 215 220
Cys Glu Thr Ile Thr Phe Lys Arg
225 230

<210> 25634
<211> 99
<212> PRT
<213> A.fumigatus

<400> 25634
Ile Asn Val Pro Asn Met Ser Ser Leu Ser Ile Ser Arg Arg Cys Met
1 5 10 15
His Ile Val Ser Leu Ser Leu Leu Val Ala Ser Ser Leu Ala Ala Asn
20 25 30
Thr Ala Gln Trp Lys Ser Arg Ala Ile Tyr Gln Thr Met Thr Asp Arg

```
        35                  40                  45
Phe Gly Arg Thr Asp Gly Ser Thr Thr Ala Arg Cys Val Ala Ser Glu
    50                  55                  60
Asn Ile Arg Cys Gly Gly Thr Trp Arg Gly Thr Ile Asp His Leu Asp
65                  70                  75                  80
Tyr Ile Gln Gly Met Gly Phe Asp Ala Val Met Ile Ser Pro Val Val
                85                  90                  95
Lys Asn Val
```

<210> 25635
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25635

```
Phe Phe Val Leu Tyr Ser Val Pro Tyr Ser Val Leu Arg Lys Asn Leu
1               5                   10                  15
Gln Ile Pro Leu Leu Asp Ile Gln His Pro Trp Glu Lys Gln Thr Met
            20                  25                  30
Asp Leu Thr Ser Ile Phe Thr Pro Tyr Ser Gln Ser Leu Asp Phe Ser
        35                  40                  45
Leu Ser Thr Leu Gly Val Ser Phe Phe Ser Ala His Ser Ser Phe Ser
    50                  55                  60
Ser Asp
65
```

<210> 25636
<211> 266
<212> PRT
<213> A.fumigatus

<400> 25636

```
Asn Ile Leu Leu Ile Gly Gly Gly Val Ser Ser Thr Asp Ile Ala Arg
1               5                   10                  15
Glu Ile Gly Pro Ile Ala Lys Thr Val Tyr Gln Ser Thr Arg Asn Gly
            20                  25                  30
Glu Phe Asp Leu Ser Glu Ser Val Leu Pro Glu Asn Gly Ile Arg Ile
        35                  40                  45
Ser Glu Ile Ala Arg Phe Glu Leu Gln Asn Asp Lys Thr Leu Pro Glu
    50                  55                  60
Asp Ala His Leu Pro Leu Ile Val His Leu Lys Ser Gly Gln Lys Leu
65                  70                  75                  80
Cys Ser Ile Asp Gly Ile Ile Ile Cys Thr Gly Tyr His Ile Thr Leu
                85                  90                  95
Pro Phe Leu Pro Asp Tyr His Asp Asp Val Thr Ser Pro Ala Asp Ala
            100                 105                 110
Asn Glu Thr Val Leu Val Thr Asp Gly Thr Gln Val His Asn Leu His
        115                 120                 125
Lys Asp Ile Phe Tyr Ile Pro Asp Pro Thr Leu Val Phe Val Gly Val
    130                 135                 140
Pro Tyr Tyr Thr Ala Thr Phe Thr Leu Phe Glu Phe Gln Ala Ile Ala
145                 150                 155                 160
Val Ala Ala Phe Phe Ser Gly Val Ala Gln Leu Pro Pro Thr Glu Asp
                165                 170                 175
Met Arg Ala Glu Tyr Leu Ala Arg Val Lys Ala Lys Gly Ser Gly Arg
```

```
            180                 185                 190
Gly Phe His Ser Leu Arg Asn Val Glu Glu His Tyr Val Ala Asp Leu
        195                 200                 205
Leu Glu Trp Val Asn Lys Ala Arg Ala Ser Arg Gly Leu Ala Ala Val
    210                 215                 220
Glu Gly His Thr Lys Ser Trp Leu Glu Ala Lys Glu Ala Gln Arg Glu
225                 230                 235                 240
Arg Leu Lys Glu Leu Leu Gly Gly Gly Thr Arg Arg Asp Ser Gly Val
                245                 250                 255
Gly Glu Phe Pro Val Leu Glu Thr Cys Arg
            260                 265
```

<210> 25637
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25637

```
Thr Phe Asp Ala Val Val Val Ala Phe Gly His Tyr Leu Ala Pro Arg
1               5                   10                  15
Met Pro Asp Ile Pro Gly Leu Pro Glu Ala Lys Ala Leu Trp Pro Ser
            20                  25                  30
Arg Ile Leu His Ser Lys Gly Tyr Arg Arg Pro Asp Gly Phe Glu Asn
        35                  40                  45
Lys Val Ser Gln Ser Gly Cys Gly Tyr Met Glu Ile Pro Arg Tyr
    50                  55                  60
```

<210> 25638
<211> 112
<212> PRT
<213> A.fumigatus

<400> 25638

```
Pro Gln Ser Leu Thr Arg Phe Ile Ser Thr Gly Gly Lys Gly Gly Lys
1               5                   10                  15
Gly Leu Gly Lys Gly Gly Ala Lys Arg His Arg Lys Ile Leu Arg Asp
            20                  25                  30
Asn Ile Gln Gly Ile Thr Lys Pro Ala Ile Arg Arg Leu Ala Arg Arg
        35                  40                  45
Gly Gly Val Lys Arg Ile Ser Ala Met Ile Tyr Glu Glu Thr Arg Gly
    50                  55                  60
Val Leu Lys Thr Phe Leu Glu Gly Val Ile Arg Asp Ala Val Thr Tyr
65                  70                  75                  80
Thr Glu His Ala Lys Arg Lys Thr Val Thr Ser Leu Asp Val Val Tyr
                85                  90                  95
Ala Leu Lys Arg Gln Gly Arg Lys Tyr Ile Ser Gly Tyr Cys Glu Phe
            100                 105                 110
```

<210> 25639
<211> 278
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (97)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25639

```
Ala Phe Leu Ser Ala Ala Cys Gly Glu Asn Ala Asn Gly Gly Met Pro
1               5                  10                  15
Phe Pro Trp Pro Pro Asn Tyr Asn Thr Tyr Ser Pro Ser Pro His Met
            20                  25                  30
Pro Pro Val His Pro Ala Pro Met Pro Gly Ser Cys Pro Cys Ser Tyr
        35                  40                  45
Gly Gln Ala Ala Leu Cys Gly Ile His Gln Pro Ile Ser Gly Tyr Pro
    50                  55                  60
Val His Gly Met Thr Gly Ser Ile Gly Asn Leu His Tyr Gln Gly Cys
65                  70                  75                  80
Val Asn Cys Pro Arg Gly Pro Gln Gly Pro Val Gly Ala Gln Gly Pro
                85                  90                  95
Xaa Gly Pro His Gly Thr Ser Gly Ala Gln Gly Pro Pro Gly Pro Gln
            100                 105                 110
Gly Ser Pro Gly Val Gly Ala Asp Gly Pro Gln Gly Pro Ala Gly Lys
        115                 120                 125
Gln Gly Val Pro Gly Pro Val Gly Pro Val Gly Ala Thr Gly Pro Ala
    130                 135                 140
Gly Pro Gln Gly Thr Ala Gly Pro Pro Arg Pro Arg Gly Glu Asp Gly
145                 150                 155                 160
Cys Asn His Gly Cys Asn Lys Pro Gly Asp Lys Pro Gly Asp Lys Pro
                165                 170                 175
Asp Glu Lys Lys Pro Pro Glu Pro Ser Gly Gln Gly Val Gly Arg Glu
            180                 185                 190
Ser Ser Asp Gly Pro Lys Tyr Thr Asp Glu Pro Ala Val Pro Ala Asn
        195                 200                 205
Gln Gly Ala Gly Val Asp Asn Val Ser Lys Gly Pro Val Tyr Asn Asp
    210                 215                 220
Glu Val Ser Ala Ala Gly Gln Gly Ile Gly Ala Glu Ser Ala Gly Gly
225                 230                 235                 240
Pro Ser Tyr Thr Gly Asp Pro Gln Thr Ser Ser His Gly Ile Gly Arg
                245                 250                 255
Glu Thr Ser Gly Gly Pro Ala Tyr Ile Glu Ala Lys Asn Pro Ser Gly
            260                 265                 270
Gln Gly Ile Gly Val Ala
        275
```

<210> 25640
<211> 195
<212> PRT
<213> A.fumigatus

<400> 25640

```
Lys Ala Val Gly Pro Gly Cys Ser Ser Pro Cys Leu Ala Pro Pro Ser
1               5                  10                  15
Lys Asn Cys Leu Pro Ser Thr Pro Leu Arg Pro Leu Cys Phe Ser Asn
            20                  25                  30
Ser Leu Lys Ser Thr Met Ala Gln Pro Ala Ser Val Val Leu Asp Gly
        35                  40                  45
Glu Asp Pro Arg Leu Arg Glu Lys Glu Arg Gly Thr Phe Asp Ala Val
    50                  55                  60
Asp Tyr Gly Thr Gly Thr Ala Ala Ile Arg Pro Gln His Arg Lys Leu
65                  70                  75                  80
```

```
His Asp Pro Ser Val Thr Phe Glu Glu Tyr Tyr Tyr Tyr Ala Gln Leu
                85                  90                  95
Thr Arg Ala Glu Glu Glu Ser Arg Pro Asn Gly Asp Gln Glu Arg Gly
            100                 105                 110
Trp Leu Ser Ile Ile Phe Pro Ser Lys Ser Gly Gly Gly Val Gln Pro
        115                 120                 125
Leu Pro Gln His Pro Ser Glu Asp Ala Lys Thr Pro Ser Ala Gly Asp
    130                 135                 140
Ala Ala Arg Gln Met Thr Ile Thr Asp Glu Glu Trp Thr Asn Ala Ser
145                 150                 155                 160
Arg Ala Leu Arg Thr Ala Thr Arg Gly Ala Ile Phe Tyr Leu Ile Thr
                165                 170                 175
Thr Asp Ile Leu Gly Pro Phe Gly Leu Gly Tyr Ala Phe Ala Thr Met
            180                 185                 190
Gly Trp Gly
        195
```

<210> 25641
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25641

```
Gly Gly Glu Asn Lys Ala Arg Tyr Leu Arg Leu Leu Cys Arg Val Arg
1               5                   10                  15
Gln Lys Leu Glu Gly Val Glu Tyr Val Leu His Leu Ala Ser Pro Leu
            20                  25                  30
Pro His Gly Thr Asn Lys Glu Thr Tyr Phe Gly Pro Ala Val Lys Gly
        35                  40                  45
Thr Thr Ala Ile Leu Lys Glu Ala Ala Lys Val Arg Thr Val Lys Arg
    50                  55                  60
Val Val Ile Thr Ser Ser Met Ala Ala Leu Ile Pro Leu Thr Gly Val
65                  70                  75                  80
Pro Glu Gly Glu Phe Val Arg Gly Arg Phe Pro Ile Ile Ser Gly
                85                  90                  95
```

<210> 25642
<211> 197
<212> PRT
<213> A.fumigatus

<400> 25642

```
Thr Arg Thr Glu Asp Thr Gly Trp Asp Leu Ser Val Asp Pro Asn Ala
1               5                   10                  15
Asp Phe Thr Gly Pro Asp Asp Ala Ala Thr Ser Phe Arg Leu Tyr Arg
            20                  25                  30
Ala Ser Lys Leu Leu Ala Asn Asn Ala Ser Trp Glu Phe Arg Asn Thr
        35                  40                  45
Ala Lys Pro His Phe Ala Leu Val Thr Leu His Pro Ala Tyr Val Phe
    50                  55                  60
Gly His Asn His Val Gln Thr Ser Pro Glu Glu Val Gln Gly Gly Thr
65                  70                  75                  80
Asn Gly Met Leu Trp Gly Thr Ile Met Thr Gly Lys Pro Met Gly Asn
                85                  90                  95
Ser Thr Gly Val His Val Gln Asp Val Ala Glu Ala His Ile Lys Ala
            100                 105                 110
```

```
Leu Asp Glu Thr Val Pro Asp Gly Ser Lys Phe Leu Leu Ala Gly Lys
        115                 120                 125
Arg Ala Ser Trp Ser Asp Val Ala Arg Ile Val Lys Arg Asp Tyr Pro
    130                 135                 140
Asp Ile Gly Ala Lys Ile Thr Glu Asp Ile Ser Gly Glu Pro Phe Pro
145                 150                 155                 160
Leu Asp Thr Thr Glu Ala Glu Lys Val Leu Gly Met Lys Trp Arg Ser
                165                 170                 175
Leu Asp Gln Met Val Lys Asp Val Val Asp Gln Gln Leu Glu Leu Met
            180                 185                 190
Arg Gln Thr Ser Leu
        195
```

<210> 25643
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25643

```
Gln Thr Glu Pro Ser Ala Ala Ile Val Tyr Ser Asp Arg His Asn Arg
1               5                   10                  15
Thr Asn Ile Glu Pro Phe Tyr Arg Asp Val Cys Leu Ile Asn Ser Asn
            20                  25                  30
Cys Trp Ser Thr Thr Ser Leu Thr Ile Trp Ser Asn Asp Leu His Phe
        35                  40                  45
Met Pro Lys Thr Phe Ser Ala Ser Val Val Ser Ser Gly Lys Gly Ser
    50                  55                  60
Pro Glu Ile Ser Ser Val Ile Leu Ala Pro Met Ser Gly
65                  70                  75
```

<210> 25644
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25644

```
Cys Val Tyr Leu Asn Asp Xaa Ala His Gly Xaa Tyr Leu Gly Leu Val
1               5                   10                  15
Val Tyr Leu Lys Phe Lys Phe Pro Ser Ser Thr Leu Val Thr His Thr
            20                  25                  30
Gln Thr Tyr Gln Leu Gln Ser Ser Ile Lys Tyr Thr Arg Phe Gly Ser
        35                  40                  45
Ser Ile Lys Gln Pro Leu Gln Asp Ala Phe Phe Arg Arg Pro Pro Cys
    50                  55                  60
Pro Leu Gly Pro Cys Arg Arg Ser Val Phe
65                  70
```

<210> 25645
<211> 204
<212> PRT
<213> A.fumigatus

<400> 25645
Asn Ser Ser Ser His His Pro Arg Ser Leu Pro Ile His Lys Arg Thr
1 5 10 15
Ser Tyr Asn Leu Arg Ser Ser Thr Leu Ala Ser Gly His Leu Ser Asn
20 25 30
Asn His Ser Lys Met Arg Ser Ser Val Val Leu Leu Ala Leu Ser Ala
35 40 45
Leu Ala Ala Ala Gln Ser Ser Ser Pro Val Val Arg Asp Asp Arg Phe
50 55 60
His Leu Asn Cys Ala Ser Asp His Thr Asn Ile Leu Gln Glu Ala Gln
65 70 75 80
Thr Thr Gly Val Thr Val Ile Gly Pro Glu Val Ser Ala Thr Glu Val
85 90 95
Ser Gly Thr Ala Ala Thr Thr Thr Ser Ile Ser Ser Thr Thr Ser Gln
100 105 110
Pro Val Ile Pro Thr Ala Pro Thr Val Ile Gly Ser Ser Gly Val Pro
115 120 125
Ser Ser Phe Ser Thr Val Pro Ser Ser Ser Gly Val Lys Ser Ser Thr
130 135 140
Lys Thr Ala Ser Thr Ala Thr Ala Thr Glu Thr Thr Ser Glu Ser Thr
145 150 155 160
Ser Thr Thr Arg Ser Ser Ala Ser Ser Thr Arg Ser Ser Thr Ser Ser
165 170 175
Thr Thr Ser Asn Ala Ala Met Pro Met Ala Thr Gly Ser Leu Gly Leu
180 185 190
Ser Val Met Ala Gly Ala Ala Leu Ala Ala Phe Leu
195 200

<210> 25646
<211> 288
<212> PRT
<213> A.fumigatus

<400> 25646
Ser Arg Leu Ser Gly Asn Gly Ser Ser Ser Asp Asp Asp Phe Gly Pro
1 5 10 15
Ala Leu Pro Ser Ala Asp Ala Pro Lys Lys Arg Arg Arg Lys Leu Pro
20 25 30
Phe Glu Lys Val Tyr Val Asn Ala Leu Pro Ala Ser Pro Arg Tyr Ser
35 40 45
Lys Ser Leu Met His Lys Glu Gln Leu Ser Phe Val Thr Met Thr Pro
50 55 60
Tyr Thr Asp Phe Leu Ile Thr Ser Ser Met Asp Gly Ile Val Lys Phe
65 70 75 80
Trp Lys Lys Met Ala Val Gly Val Glu Phe Val Lys Glu Phe Arg Ala
85 90 95
His Pro Ala Asp Ile Lys Ser Val Ser Val Ser Ala Asp Gly Arg Ser
100 105 110
Phe Ala Thr Ala Gly Ala Asp Lys Thr Ile Lys Ile Phe Asp Val Ile
115 120 125
Thr Phe Gly Arg Leu Gly Pro Leu Leu Leu Ile Trp Leu Cys Gln Leu
130 135 140
Ile Gly Cys Pro Asp Leu Leu Ala Met Leu Ser Leu Asp Phe Thr Pro
145 150 155 160
Arg Cys Val Cys Trp Val His Pro Arg Gly Ala Ser Leu Pro Leu Leu

```
                165                 170                 175
Ala Val Thr Asp Glu Asp Ser Pro Met Ile Gln Val Phe Asp Gly Arg
            180                 185                 190
Gly Glu Asn Thr Thr Pro Leu Asn Thr Val Lys Ser Ile His Arg Ser
        195                 200                 205
Pro Val Ala Ala Ile Ala Phe Asn Asn Ala Tyr Asp Cys Val Ile Ser
    210                 215                 220
Ala Asp Arg Ser Gly Met Val Glu Tyr Trp Arg Ala Ser Asp Gly Ser
225                 230                 235                 240
Tyr Glu Lys Pro Asp Asn Val Phe Glu Leu Lys Ser Ser Thr Asn Leu
                245                 250                 255
Phe Glu Phe Lys Lys Ser Lys Ser Ala Pro Ala Ser Ile Thr Ile Ser
            260                 265                 270
Pro Cys Leu His His Gly Ala Gly Arg Ile Ala Ser Glu Val Phe His
        275                 280                 285
```

<210> 25647
<211> 248
<212> PRT
<213> A.fumigatus

<400> 25647

```
Lys Ile Pro Leu Gln Pro Pro Arg Leu Pro Thr Lys Pro Thr Ser Pro
1               5                   10                  15
Asn Pro Asp Leu Tyr Phe Ser Arg Lys Met Lys Tyr Leu Ser Ile Val
            20                  25                  30
Ala Ala Ser Leu Ala Ala Ile Leu Pro Ser Val Ser Ala Tyr Pro Ile
        35                  40                  45
Thr Gly Asp Gly Val Asn Cys Arg Ser Gly Pro Gly Thr Asn Tyr Pro
    50                  55                  60
Val Val Lys Ser Tyr Pro Lys Gly His Glu Val Ser Ile Val Cys Gln
65                  70                  75                  80
Ala Pro Gly Thr Asp Ile Lys Gly Asp Lys Leu Trp Asp Lys Thr Ser
                85                  90                  95
Asp Gly Cys Tyr Val Ala Asp Tyr Tyr Val Lys Thr Gly Thr Thr Asn
            100                 105                 110
Tyr Val Ala Lys His Cys Asp Ser Gly Ser Gly Ser Gly Gly Gly Gly
        115                 120                 125
Gly Ser Ser Ala Ser Gly Ser Gly Lys Ala Ile Val Ala Ala Ala Gln
    130                 135                 140
Lys Glu Lys Gly Leu Pro Tyr Val Trp Gly Gly Gly Gly Cys Lys Gly
145                 150                 155                 160
Pro Ser Gly Gly Gly Phe Asp Cys Ser Gly Leu Thr Gln Tyr Ala Val
                165                 170                 175
Cys Gln Ala Leu Lys Lys Thr Ile Pro Arg Thr Gly Pro Thr Gln Tyr
            180                 185                 190
Lys Leu Glu His Gly Gln Thr Gly Phe Arg Ala Gln Gln Pro Lys Glu
        195                 200                 205
Gly Asp Leu Leu Phe Trp Ala Thr Cys Gly Asp Leu Gln Lys Gln Gly
    210                 215                 220
Trp Pro Thr Leu Val Phe Phe Ile Pro Pro Pro Pro His His Pro Leu
225                 230                 235                 240
Leu Ala Lys Asn Gly Thr Pro Trp
                245
```

<210> 25648

<211> 144
<212> PRT
<213> A.fumigatus

<400> 25648
Ser Thr Ser Pro Leu Ser Leu His Pro Leu Gln Pro Ser Phe Pro Pro
1 5 10 15
Ser Ala Pro Thr Pro Ser Pro Ala Thr Ala Ser Thr Ala Ala Pro Val
20 25 30
Pro Ala Pro Ile Thr Pro Trp Ser Ser Arg Thr Pro Arg Ala Thr Arg
35 40 45
Ser Pro Ser Ser Ala Lys Pro Pro Ala Pro Thr Ser Lys Val Thr Ser
50 55 60
Ser Gly Thr Arg Pro Pro Thr Ala Ala Thr Ser Pro Ile Thr Thr Ser
65 70 75 80
Arg Pro Ala Pro Pro Thr Thr Ser Pro Ser Thr Ala Ile Ala Val Ala
85 90 95
Ala Pro Ala Ala Ala Ala Ala Pro Arg Pro Ala Ala Pro Ala Arg Pro
100 105 110
Ser Ser Pro Gln Pro Lys Arg Arg Arg Asp Ser Pro Thr Ser Gly Ala
115 120 125
Ala Val Ala Ala Arg Asp Pro Leu Ala Val Val Ser Thr Ala Pro Gly
130 135 140

<210> 25649
<211> 273
<212> PRT
<213> A.fumigatus

<400> 25649
Gly Arg Gly Gly His Lys Lys Phe Pro Asp Arg Leu Val Pro Leu Pro
1 5 10 15
Arg Gly Thr Val Phe Arg Lys Gln Trp Val Val Arg Arg Gly Arg Asn
20 25 30
Glu Glu Tyr Gln Arg Gly Pro Pro Leu Phe Leu Gln Val Pro Ala Ser
35 40 45
Ser Pro Glu Lys Gln Ile Ala Leu Leu Gly Leu Leu Gly Ala Glu Ser
50 55 60
Gly Leu Pro Met Phe Glu Phe Val Leu Arg Trp Pro Arg Ala Gly Tyr
65 70 75 80
Gly Phe Leu Gln Arg Leu Ala Asp Gly Val Leu Gly Gln Pro Gly Ala
85 90 95
Val Glu Thr Thr Ala Arg Gly Ser Leu Ala Ala Thr Ala Ala Pro Asp
100 105 110
Val Gly Glu Ser Leu Leu Leu Leu Gly Cys Gly Asp Asp Gly Leu Ala
115 120 125
Gly Ala Ala Gly Arg Gly Ala Ala Ala Ala Ala Gly Ala Ala Thr Ala
130 135 140
Ile Ala Val Leu Gly Asp Val Val Gly Gly Ala Gly Leu Asp Val Val
145 150 155 160
Ile Gly Asp Val Ala Ala Val Gly Gly Leu Val Pro Glu Leu Val Thr
165 170 175
Phe Asp Val Gly Ala Gly Gly Leu Ala Asp Asp Gly Asp Leu Val Ala
180 185 190
Leu Gly Val Arg Leu Asp His Gly Val Ile Gly Ala Gly Thr Gly Ala
195 200 205

```
Ala Val Asp Ala Val Ala Gly Asp Gly Val Gly Ala Asp Gly Gly Lys
    210                 215                 220
Asp Gly Cys Lys Gly Cys Ser Asp Asn Gly Glu Val Leu His Leu Ala
225                 230                 235                 240
Arg Glu Ile Glu Ile Arg Val Arg Arg Cys Gly Phe Gly Trp Lys Pro
                245                 250                 255
Gly Trp Leu Lys Arg Asn Phe Leu Trp Ala Asp His Thr Ile Tyr Arg
            260                 265                 270
His
```

<210> 25650
<211> 422
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (77),(87),(113),(126),(140)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25650

```
Ser Pro Pro Gly Asp His Ala Gly Trp Ala Val Gln Leu Asn Arg Ala
1               5                   10                  15
Ser Val Pro Gly Pro Ser Asn Arg Gly His Leu Gln Leu Gly Ser Gly
            20                  25                  30
His His Pro Ser Val Ser Gln Asp Ser Asp Lys Ile Gly Asp Asn Arg
        35                  40                  45
Ala Asp Pro Thr Gly Gly Ser Arg Phe Ala Phe Ala Ser Phe Arg Lys
    50                  55                  60
Lys Tyr Ala Arg Tyr Asp Asp Arg Ala Lys Ser Lys Xaa Lys Leu Ala
65                  70                  75                  80
Pro Tyr Ala Ile Gly Gln Xaa Phe Ser Val Ile Gln Tyr Thr Pro Val
                85                  90                  95
Leu Asn Asp Gln Asn Ser Ala Ser Asp Ser Gly Arg Ala Ile Leu Asp
            100                 105                 110
Xaa Gln Tyr Ile Val Gly Val Ser Ser Pro Ile Pro Val Xaa Glu Phe
        115                 120                 125
Ser Thr Gly Gly Arg Gly Leu Leu Ile Pro Asp Xaa Ser Gln Pro Asp
    130                 135                 140
Pro Asn Asp Asn Ser Asn Glu Pro Tyr Leu Glu Phe Leu Gln Asn Val
145                 150                 155                 160
Leu Lys Met Asp Gln Asp Lys Leu Pro Gln Val Ile Ser Thr Ser Tyr
                165                 170                 175
Gly Glu Asp Glu Gln Thr Ile Pro Glu Lys Tyr Ala Arg Ser Val Cys
            180                 185                 190
Asn Leu Tyr Ala Gln Leu Gly Ser Arg Gly Val Ser Val Ile Phe Ser
        195                 200                 205
Ser Gly Asp Ser Gly Val Gly Ala Ala Cys Leu Thr Asn Asp Gly Thr
    210                 215                 220
Asn Arg Thr His Phe Pro Pro Gln Phe Pro Ala Ala Cys Pro Trp Val
225                 230                 235                 240
Thr Ser Val Gly Gly Thr Thr Lys Thr Gln Pro Glu Glu Ala Val Tyr
                245                 250                 255
Phe Ser Ser Gly Gly Phe Ser Asp Leu Trp Glu Arg Pro Ser Trp Gln
            260                 265                 270
```

```
Asp Ser Ala Val Lys Arg Tyr Leu Lys Lys Leu Gly Pro Arg Tyr Lys
        275                 280                 285
Gly Leu Tyr Asn Pro Lys Gly Arg Ala Phe Pro Asp Val Ala Ala Gln
    290                 295                 300
Ala Glu Asn Tyr Ala Val Phe Asp Lys Gly Val Leu His Gln Phe Asp
305                 310                 315                 320
Gly Thr Ser Cys Ser Ala Pro Ala Phe Ser Ala Ile Val Ala Leu Leu
                325                 330                 335
Asn Asp Ala Arg Leu Arg Ala His Lys Pro Val Met Gly Phe Leu Asn
            340                 345                 350
Pro Trp Leu Tyr Ser Lys Ala Ser Lys Gly Phe Asn Asp Ile Val Lys
        355                 360                 365
Gly Gly Ser Lys Gly Cys Asp Gly Arg Asn Arg Phe Gly Gly Thr Pro
    370                 375                 380
Asn Gly Ser Pro Val Val Pro Tyr Ala Ser Trp Asn Ala Thr Asp Gly
385                 390                 395                 400
Trp Asp Pro Ala Thr Gly Leu Gly Thr Pro Asp Phe Gly Lys Leu Leu
                405                 410                 415
Ser Leu Ala Met Arg Arg
            420
```

<210> 25651
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25651

```
Thr Pro Pro Ala Gln Lys Leu Pro Ala Leu Tyr Val Val Asp Ser Ile
1               5                   10                  15
Val Lys Asn Val Gly Thr Pro Tyr Thr Leu Phe Leu Gly Arg Asn Met
            20                  25                  30
Tyr Gln Thr Phe Met Asn Ala Tyr Thr Leu Val Asp Ser Gln Thr Arg
        35                  40                  45
Arg Lys Leu Asp Glu Met Leu Lys Thr Trp Lys Glu Pro Val Pro Gly
    50                  55                  60
Ser Leu Asp Thr Arg Pro Val Phe Pro Pro Glu Ile Thr Arg Ser Ile
65                  70                  75                  80
Glu Ser Ala Leu Ile Lys Ala Arg Thr Ala Ala Leu Gln Gln Gln Gln
                85                  90                  95
Ala Arg Ser Gln Gln Asp Ile Leu Asn Arg Gly Arg Val Gly Thr Pro
            100                 105                 110
Pro His Gly Trp Thr Asn Asn Thr Thr Leu Asn Gln Ser Ala Thr Arg
        115                 120                 125
Leu Ala Pro Ser Thr Ser Gln Asn Gly His Ala His Gln Val Arg Asn
    130                 135                 140
Gly His Thr Leu Asn Tyr His Ala Ala Val Arg Pro Met Leu Val Thr
145                 150                 155                 160
Asn
```

<210> 25652
<211> 83
<212> PRT
<213> A.fumigatus

<220>

<221> UNSURE
<222> (11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25652
Tyr Leu Thr His Thr Gln Leu Asp Pro Arg Xaa Thr Pro Thr Pro Gln
1 5 10 15
Pro Leu Gln Arg Ser Glu Val Asp Leu Ala Ala Leu Asn Arg Asp Ile
20 25 30
Val Val Leu Ile Ala Ala Ala Arg Ser Asp Phe Ala Asn Asn Pro Leu
35 40 45
Asp Pro Ser Val Gln Gln Arg Leu Lys Ala Leu Leu Asp Leu Gln Gly
50 55 60
Ile Leu Gln Arg Gln Glu Leu Val Phe Thr Pro Gly Gly Trp Lys Asp
65 70 75 80
His Val Glu

<210> 25653
<211> 139
<212> PRT
<213> A.fumigatus

<400> 25653
Arg Gln Thr Ala Arg Arg Arg Glu Arg Lys His Pro Asn Ile Pro Glu
1 5 10 15
Cys Cys Tyr Phe Arg Leu Lys Ile Pro Phe Val Pro Phe Leu Pro Arg
20 25 30
Leu His Ser His Leu Ala His Glu His Arg Cys Phe Thr Ala Tyr Leu
35 40 45
Pro Val Met Ser Ser Gly Leu Ala Ser Asp Glu Val Ala Glu Asp Tyr
50 55 60
Lys Asn Ser Leu Glu Asp Leu Thr Thr Asn Asp Arg Phe Gln Ile Ser
65 70 75 80
Asn Leu Thr Val Ile Ala Lys Glu Asn Thr Glu His Ala Met Ala Ile
85 90 95
Ser Arg Val Leu Glu Asn His Ile Arg Thr Val Gly Gly Leu Cys Phe
100 105 110
Ser Leu Ser Cys Ile Ser Pro Trp Leu Leu Tyr Leu Ala Arg Arg Ser
115 120 125
Ala Val Cys Lys Phe Asp Arg Leu Asn His Phe
130 135

<210> 25654
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25654
Pro Arg Pro Gly Trp His Ser Ser Ser Trp Leu Asp Glu Gln His Tyr
1 5 10 15
Ala Gln Pro Glu Cys Asp Ser Ala Arg Ala Phe His Lys Ser Glu Trp
20 25 30
Ala Cys Ser Ser Gly Pro Lys Trp Thr His Ala Lys Leu Ser Arg Cys
35 40 45
Gly Lys Ala Tyr Ala Arg His Lys Leu Ala Val Val Asn Ala Leu Cys

```
    50                  55                  60
Asp Ile
65

<210> 25655
<211> 386
<212> PRT
<213> A.fumigatus

<400> 25655
Tyr Lys Ser Arg Ala Gln Leu Arg Ala Pro Gly Ile Leu Pro Arg Arg
1               5                  10                  15
Ser Val Asn Gln Pro Val Gln Thr Gly Leu Lys Cys Val Asp Ser Met
            20                  25                  30
Val Pro Ile Gly Arg Gly Gln Arg Glu Leu Ile Ile Gly Asp Arg Gln
        35                  40                  45
Thr Gly Lys Thr Ala Val Ala Leu Asp Ala Met Leu Asn Gln Lys Arg
    50                  55                  60
Trp Asn Asn Ser Ser Asp Glu Ser Lys Lys Leu Tyr Cys Ile Tyr Val
65                  70                  75                  80
Ala Val Gly Gln Lys Arg Ser Thr Val Ala Gln Leu Val Lys Thr Leu
                85                  90                  95
Glu Glu Asn Asp Ala Met Lys Tyr Ser Ile Val Val Ala Ala Thr Ala
            100                 105                 110
Ser Glu Ala Ala Pro Leu Gln Tyr Leu Ala Pro Phe Thr Gly Cys Ala
        115                 120                 125
Met Gly Glu Trp Phe Arg Asp Asn Gly Arg His Ala Val Ile Val Tyr
    130                 135                 140
Asp Asn Leu Ser Lys Gln Gly Val Ala Tyr Arg Gln Met Ser Leu Leu
145                 150                 155                 160
Leu Arg Arg Pro Pro Gly Arg Glu Ala Tyr Pro Gly Asp Val Phe Tyr
                165                 170                 175
Leu His Ser Arg Leu Leu Glu Arg Ala Ala Lys Met Asn Asp Lys His
            180                 185                 190
Gly Gly Gly Ser Leu Thr Ala Leu Pro Val Ile Glu Thr Gln Gly Gly
        195                 200                 205
Asp Val Ser Ala Tyr Ile Pro Thr Asn Val Ile Ser Ile Thr Asp Gly
    210                 215                 220
Gln Ile Phe Leu Glu Ser Glu Leu Phe Tyr Lys Gly Ile Arg Pro Ala
225                 230                 235                 240
Ile Asn Val Gly Leu Ser Val Ser Arg Val Gly Ser Ala Ala Gln Val
                245                 250                 255
Lys Ala Met Lys Gln Val Ala Gly Ser Leu Lys Leu Phe Leu Ala Gln
            260                 265                 270
Tyr Arg Glu Val Ala Ala Phe Ala Gln Phe Gly Ser Asp Leu Asp Ala
        275                 280                 285
Ser Thr Lys Gln Thr Leu Ala Arg Gly Glu Arg Leu Thr Glu Leu Leu
    290                 295                 300
Lys Gln Lys Gln Tyr Ser Pro Met Ala Val Ser Glu Met Val Pro Leu
305                 310                 315                 320
Ile Phe Ala Gly Val Asn Gly Tyr Leu Asp Gly Ile Pro Val Asn Lys
                325                 330                 335
Ile Leu Thr Trp Glu Ser Asp Phe Leu Ala Ser Val Lys Ser Asn Gln
            340                 345                 350
Pro Glu Ile Leu Glu Thr Ile Asp Lys Glu Gly Gln Val Ser Lys Glu
        355                 360                 365
```

```
Leu Glu Ala Gln Leu Arg Glu Val Ile Val Asn Phe Asn Lys Ser Phe
    370                 375                 380
Asn Ala
385

<210> 25656
<211> 415
<212> PRT
<213> A.fumigatus

<400> 25656
Arg Gln Glu Lys Thr Val His Gly Gly Ser Ile Thr Gln Leu Pro Phe
1               5                  10                  15
Ala His Leu Cys Val Glu Arg Leu Val Glu Val His Asn Asp Phe Thr
            20                  25                  30
Glu Leu Ser Leu Glu Phe Leu Ala Asp Leu Ala Leu Leu Val Asp Gly
        35                  40                  45
Leu Lys Asp Leu Gly Leu Val Ala Leu Asp Thr Gly Lys Glu Val Arg
    50                  55                  60
Leu Pro Ser Glu Asp Leu Val Asp Gly Asp Thr Val Glu Val Thr Val
65                  70                  75                  80
Asp Thr Gly Lys Asp Glu Arg Asn His Leu Arg His Ser His Gly Arg
                85                  90                  95
Val Leu Leu Leu Leu Glu Glu Leu Gly Gln Thr Leu Thr Thr Ser Glu
            100                 105                 110
Gly Leu Leu Gly Gly Gly Ile Glu Ile Gly Thr Glu Leu Ser Glu Ser
        115                 120                 125
Ser Asn Phe Thr Val Leu Ser Gln Glu Gln Leu Gln Gly Thr Ser Asp
    130                 135                 140
Leu Leu His Gly Leu Asp Leu Gly Ser Gly Thr Asp Thr Gly His Arg
145                 150                 155                 160
Lys Thr Asp Val Asn Gly Gly Thr Asp Thr Leu Val Glu Glu Phe Gly
                165                 170                 175
Phe Gln Glu Asn Leu Ala Val Gly Asp Gly Asn Asn Ile Gly Trp Asn
            180                 185                 190
Val Gly Gly Asp Ile Ala Thr Leu Gly Leu Asp Asn Gly Gln Ser Ser
        195                 200                 205
Lys Gly Thr Thr Thr Val Leu Val Val His Leu Gly Ser Thr Leu Glu
    210                 215                 220
Glu Thr Gly Val Gln Val Glu Asn Val Thr Gly Val Gly Leu Thr Thr
225                 230                 235                 240
Arg Gly Thr Thr Glu Gln Gln Arg His Leu Thr Val Ser Asp Ala Leu
                245                 250                 255
Leu Gly Lys Ile Val Val Asp Asp Asp Ser Met Ala Pro Val Val Thr
            260                 265                 270
Glu Pro Leu Thr His Gly Thr Ala Ser Glu Gly Ser Glu Val Leu Gln
        275                 280                 285
Arg Ser Gly Leu Arg Ser Ser Gly Ser Asn Asp Asn Gly Val Leu His
    290                 295                 300
Gly Val Ile Leu Leu Lys Gly Leu Asp Glu Leu Ser Asp Ser Gly Thr
305                 310                 315                 320
Phe Leu Ala Asn Gly Asn Val Asp Thr Val Glu Leu Leu Ala Leu Val
                325                 330                 335
Gly Arg Val Val Pro Ser Leu Leu Val Lys His Ser Ile Glu Ser Asn
            340                 345                 350
Ser Gly Leu Thr Ser Leu Thr Val Thr Asn Asp Gln Leu Thr Leu Thr
```

```
        355                 360                 365
Thr Ala Asp Gly Asp His Gly Val Asp Thr Leu Gln Thr Ser Leu Asp
    370                 375                 380
Arg Leu Val Asp Gly Thr Thr Gly Gln Asp Thr Arg Gly Pro Glu Leu
385                 390                 395                 400
Ser Thr Ala Leu Val Leu Ser Arg Arg Ala Gly Arg Thr Thr Leu
                405                 410                 415

<210> 25657
<211> 95
<212> PRT
<213> A.fumigatus

<400> 25657
Ser Leu Asn Asn Asn Lys Ala Cys Leu Pro Pro Asn Ala Met Asp Val
1               5                   10                  15
Leu Asn Arg Gly Asn Gly Val Val Tyr Leu Gly Asn Thr Ala Ser Tyr
            20                  25                  30
Ser Arg Cys Ser His Leu Arg Ser Phe Phe Ile Pro Gly Phe Ile Gln
        35                  40                  45
Met Pro Ala Gly Leu Ile Phe Ile Thr Gly Ala Thr Gly Phe Ile Gly
    50                  55                  60
Ser Ala Val Ala Leu Glu Ala Leu Asn Ala Gly Tyr Ser Leu Arg Ile
65                  70                  75                  80
Ser Ile Arg Lys Glu Ser Gln Ile Pro Lys Leu Lys Lys Ile Leu
                85                  90                  95

<210> 25658
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25658
Thr Thr Leu Arg Lys Thr Thr Leu Leu Ser Gln Ile Lys Ala Leu Tyr
1               5                   10                  15
Leu Pro Arg Pro Asp Gly Ala Thr Ala Pro Asn Pro Gly Lys Thr Val
            20                  25                  30
Pro Thr Val Gly Gln Asn Val Ala Thr Ile Pro Leu Ser Asp Met Tyr
        35                  40                  45
Leu Lys Ile Trp Asp Val Gly Gly Gln Ile Ser Met Arg Asn Leu Trp
    50                  55                  60
Gln Ser Tyr Tyr Ser Ser Cys His Ala Ile Ile Phe Val Val Asp Ser
65                  70                  75                  80
Thr Asp Val Gly Gln Asp Pro Asp Ile Thr Arg Leu Pro Ser Asn Gln
                85                  90                  95
Lys Pro Gly Ser Leu Ser Gly Pro Ser Ala Ser Gly Ser Gly Pro Val
            100                 105                 110
Thr Glu Glu Met Ala Gly Ile Asn Ala Pro Gly Arg Glu Phe Gly Arg
        115                 120                 125
Leu Asp Glu Cys Arg Gln Val Leu Glu Ser Val Leu Gln His Ser Asp
    130                 135                 140
Val Ala Gly Val Pro Ile Leu Val Leu Ala Asn Lys Gln Asp Arg Glu
145                 150                 155                 160
Asp
```

<210> 25659
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25659
Val Glu Val Val Arg Ile Lys Glu Gly Leu Val Arg Lys Val Phe Glu
1 5 10 15
Gly Glu Ser Gly Gly Gly Val Arg Asp Ser Arg Val Leu Pro Val Ser
20 25 30
Ala Leu Met Gly Thr Gly Val Arg Glu Ala Val Glu Trp Ile Gln Ser
35 40 45
Arg Val Lys Trp Asn Lys Glu Gly Arg Pro Pro Ile Met Lys
50 55 60

<210> 25660
<211> 120
<212> PRT
<213> A.fumigatus

<400> 25660
Pro Leu Val Asp Ile Trp Leu Thr Pro Pro Asp Phe Leu His Thr Thr
1 5 10 15
Val Leu Glu Ile Ala Ser Ser Arg Thr Pro Leu Glu Val Asp Ser Phe
20 25 30
Val Ser His Leu Glu Gln Ser Gly Val Ile Pro Gly Leu Val Asn Tyr
35 40 45
Thr Phe Asn His Arg Ala Arg Leu Val Lys Pro Val Val Ser Phe Asp
50 55 60
Ala Ser Ala Met Ala Leu Ser Phe Val Pro Ala Ala Gly Glu Pro Ser
65 70 75 80
Arg Trp Ser Arg Ser Val Asp Asp Asp Asn Tyr Thr Tyr His His Leu
85 90 95
Arg Arg Asp Leu Tyr Ala Gly Val Ala Ala Thr Gly Ser Ser Pro Arg
100 105 110
Arg Arg Lys Val Thr Val Leu Asp
115 120

<210> 25661
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25661
Asp Ile Asp Gln Ile Ile Arg Ser Cys His Pro Ile Pro Leu Ile Asp
1 5 10 15
Tyr Gly Asp Ile Leu Ser Val Gly Leu Gln Glu Leu Asp Tyr Phe Pro
20 25 30
Ala Tyr Gly Ile Asp Phe Cys Gly Ala Glu Asp Ile Asp Ile Asn Ala
35 40 45
Ser Ile Pro Val Trp Ser Thr Leu Val Ser Glu Met Ala Tyr Leu Ser
50 55 60
His Gln Lys Asn
65

<210> 25662

<211> 67
<212> PRT
<213> A.fumigatus

<400> 25662
Ser Ile Ser Ser Leu Cys Asn Cys His Ala Asp Asn Ile Arg Gly Gln
1 5 10 15
Leu Cys Lys Ile Pro Lys Ile Ala Thr Pro Ala Glu Asn Arg Ile Thr
20 25 30
Trp Gly Thr Ser Glu Pro Glu Ala Pro Phe Ser Thr Pro Thr Tyr Gln
35 40 45
Asp Thr Asn Lys Ile Lys Ser Ser Pro Gly Ala Glu Gly Ala Ala Leu
50 55 60
Leu Ala Ile
65

<210> 25663
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25663
Arg Ser Arg Thr Arg Phe Phe Gln Ser Val Val Lys Asn Gly Val Lys
1 5 10 15
Ala Arg Gln Ser Thr Leu Lys Ser Val Lys Asp Asp Lys Glu His Arg
20 25 30
Arg Thr Arg Ile Ser Thr Lys Ser Gly Tyr Asp Arg Arg Met Glu Asn
35 40 45
Lys Lys Lys Ala Leu Ile Ala Ala Ser Arg Asn Arg Lys Ser Lys Thr
50 55 60
Gln Ser Thr Asp Pro Gly Ser Asp Asp Glu Ser Trp Asp Gly Leu Asp
65 70 75 80
Gly

<210> 25664
<211> 170
<212> PRT
<213> A.fumigatus

<400> 25664
Ser Leu Glu Leu Arg Arg Leu Met Met Glu Leu Leu Gln Gln Val Tyr
1 5 10 15
Leu Asp Asp Pro Leu Pro Ala Asn Arg Lys His Pro Ser His Thr Ala
20 25 30
Glu Ser Phe Tyr Ile Asp Tyr Pro Glu Leu Glu Glu Thr Lys His Leu
35 40 45
Lys Arg Gly Leu Gly Leu Val Thr Thr Ile Ser Asp Asn Pro Pro Met
50 55 60
Leu Asn Trp Ile Tyr Ala Asp Thr Glu Thr His Glu Leu Lys Tyr Gly
65 70 75 80
Asn Arg Thr Gln Ser Val Gln His Val Val Gly Pro Trp Asp Trp Ala
85 90 95
Asp Glu Glu Thr Thr Ile Thr Leu Glu Gly Lys Arg Ala Phe Met Ala
100 105 110
Val Gln Glu Glu Asp Gly Ser Trp Ala Val Tyr Phe Asp Arg Asp Gly

```
        115                 120                 125
Asp Glu Leu Glu Trp Val Leu Glu Glu Glu Gly Lys Leu Asp Asn Pro
    130                 135                 140
Phe Ala Pro Ile Lys Leu Lys Arg Thr Met Val Pro Gln Val Pro Gln
145                 150                 155                 160
Ala Glu Gln Ser Asn Lys Asn Asp Asn Ser
                165                 170
```

<210> 25665
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25665

```
Gly Ser Pro Leu Ile Ala Asn Asn Gln Ser Ala Ser Ser Leu Leu Arg
1               5                   10                  15
Glu Val Leu Pro Met Thr Thr Leu Val Pro Arg Glu Pro Tyr Ser Lys
            20                  25                  30
Glu Glu Leu Glu Lys Leu Tyr Pro Lys Glu Leu Gln Leu Gln Leu Val
        35                  40                  45
Gln Val Val Cys Asp Glu Ile Gln Thr Tyr Phe Pro Arg Arg Val Asn
    50                  55                  60
Gln Ala Tyr
65
```

<210> 25666
<211> 458
<212> PRT
<213> A.fumigatus

<400> 25666

```
Pro Ala Asn His Pro Gln Ser Tyr Ser Gly Pro Ser Tyr Arg Gly Gly
1               5                   10                  15
His Ser Gly Tyr Arg Gly Asn Ser Gln Asn His Gly Arg Asp Gln Arg
            20                  25                  30
Phe Ser Gly Ser Gly His Ser Ser Tyr Asn Thr Gly Pro Ser Gly Arg
        35                  40                  45
Gly Arg Phe Asn Ser Phe Gln Trp Asn Ala Arg Gly Gly Gly Gly Ser
    50                  55                  60
Val Ser Pro His Thr Thr His Pro Glu Pro Ser Gln Ser Pro Ala Pro
65                  70                  75                  80
Leu Pro Ala Ala Gly Glu Gln Ser Phe Ser Gly Glu Gly Asp Arg Asp
                85                  90                  95
Gln Ala Phe Gly Ser Pro Ser Arg Asp Leu Gln Thr Leu Asp Gln Gly
            100                 105                 110
Ser Lys Pro Cys Ser Glu Asp Val Asp Phe Pro Lys Ile Ser Arg Pro
        115                 120                 125
Thr Gln Pro Ser Asp Thr Asn Ala Thr Pro Asn Lys Gly Gly Lys Phe
    130                 135                 140
Ser Phe Ala Phe Lys Ala Lys Thr Thr Pro Ala Pro Ala Pro Lys Pro
145                 150                 155                 160
Val Pro Asp Leu Ala Gln Arg Met Gln Ala Arg Glu Pro Pro Pro Arg
                165                 170                 175
Val Ala Glu Pro Ala Arg Ser Arg Val Leu Leu Gly Pro Pro Pro Arg
            180                 185                 190
Phe Lys Pro Glu Pro Arg Phe Asp Arg Arg Asp Arg Asp Arg Asp Arg
```

```
        195                 200                 205
Asp Arg His Arg Asn Arg Glu Arg Asp Arg Gly Arg Arg Asp Arg Arg
    210                 215                 220
Asp Phe Arg Arg Asp Pro Arg Asp Tyr Arg Glu Pro Arg Asp Ile Arg
225                 230                 235                 240
Asp Asn Arg Lys Glu Asp Arg Arg Phe Asp Gln Arg His Val Gly Arg
                245                 250                 255
Lys Glu Asp Arg Arg Gln Asp Pro Arg Pro Pro Arg Gly Pro Arg Glu
            260                 265                 270
Arg Ser Pro Gly Val Lys Gln Pro Gln Val Leu Thr Arg Pro Lys Pro
        275                 280                 285
Arg Pro Thr Leu Pro Glu Glu Tyr Ala Lys Ser Asp Ser Val Tyr Tyr
    290                 295                 300
Arg Lys Pro Gly Asn Glu Ser Val Ile Gly Ala Gly Thr Tyr Gly Lys
305                 310                 315                 320
Val Phe Lys Ala Ile His Val Tyr Thr Gln Arg Lys Val Ala Leu Lys
                325                 330                 335
Lys Ile Arg Met Glu Gly Glu Lys Asp Gly Phe Pro Val Thr Ala Val
            340                 345                 350
Arg Glu Ile Lys Leu Leu Gln His Leu Arg Asn His Asn Val Val Ser
        355                 360                 365
Leu Leu Glu Val Met Val Glu Arg Asn Glu Cys Phe Met Val Phe Glu
    370                 375                 380
Tyr Leu Ser His Asp Leu Thr Gly Leu Ile Asn His Pro Thr Phe Thr
385                 390                 395                 400
Leu Thr Ala Ala His Lys Lys Asp Leu Ala Lys Gln Met Phe Asp Gly
                405                 410                 415
Leu Asn Tyr Leu His His Arg Gly Val Leu His Arg Asp Ile Lys Ala
            420                 425                 430
Ala Asn Ile Leu Ile Ser Asn Arg Gly Ser Leu Lys Phe Val Phe Thr
        435                 440                 445
Thr Arg Gly Arg Lys Asp Pro Arg Met Val
    450                 455
```

<210> 25667
<211> 416
<212> PRT
<213> A.fumigatus

<400> 25667

```
Arg Arg Leu Ser Gly Asn Ser Gly Ser Gln Pro Gly Gln Ser Arg Gly
1               5                   10                  15
Pro Gln Ser Gln Pro Ser Gln Asn Pro Pro Gly Thr Ser Pro Ser Leu
            20                  25                  30
His Asp Arg Pro Ala Gln Gly Ser Gln Ala Val Glu Asn Glu Asp Ser
        35                  40                  45
Ser Arg Ala Leu Val Val Ile Leu Lys Ser Gln Ala His Ile Phe Phe
    50                  55                  60
Leu His Gly Asn Ser His Val Ile Pro Leu Pro Phe Glu Val Asp Ser
65                  70                  75                  80
Val Phe Ala Thr Pro Arg Gly Leu Leu Phe Gln Arg Lys Met Gln Glu
                85                  90                  95
Glu Asp Thr Ser Ile Tyr Pro Met Ala Pro Pro Asn Ser Phe Ile Ser
            100                 105                 110
Ser Phe Leu Thr Thr Asp Phe Arg Ala Ser Glu Ser Leu Glu Leu Pro
        115                 120                 125
```

```
Ser Gly Lys Val Lys Arg Pro Ser Leu Thr Ile Ser Pro Ala Gln Asn
    130                 135                 140
Thr Ala Leu Asn Cys Arg Ala Thr Lys Thr Ala Asn Leu Pro Arg Val
145                 150                 155                 160
Phe Ser Leu Ile Asp Pro His Ser Glu Met Gly Leu Val Val Thr Lys
                165                 170                 175
Gln Ser Ser Arg Trp Leu Gln Arg Ser Ile Asn Ser Lys Pro Ser Gly
            180                 185                 190
Leu Asp Ala Leu Asp Pro Ala Asp Glu Ile Val Tyr Val Ser Pro Val
        195                 200                 205
Asn Glu Leu Leu Gly Ser Ser Arg Ala Leu Ser Lys Ser Pro Leu Thr
    210                 215                 220
Leu Val Val Thr Val Asn Leu Asn Thr Gly Leu Tyr Thr Leu Trp Thr
225                 230                 235                 240
Thr Arg Tyr Arg Glu Asp Glu Thr Gly Pro Ser Ser Lys Lys Gln Arg
                245                 250                 255
Arg Arg Asp Thr Gly Gly Thr Arg Ser Lys Arg Arg Ser Ser His Phe
            260                 265                 270
Ser Met Ala Thr Gly Ala Thr Thr Pro Ala Ala Arg Pro Ser Ala Ala
        275                 280                 285
Arg Glu Ser Phe Gly Pro Arg Gly Asp Asn Trp Asn Ala Ser Gly Phe
    290                 295                 300
Ser His Ser Gln Tyr Ser Val Asp Gly Arg Pro Asp Glu Asp Asp Leu
305                 310                 315                 320
Ala Ser Arg Leu Gly Gln Asp Phe Gly Asp Leu Gly Val Pro Ser Lys
                325                 330                 335
Thr Ser Arg Arg Val Ser Ser Met Leu Ala Arg Thr Asp Leu Ala Ser
            340                 345                 350
Ser Gln Asp Arg Ile Ala Phe Ser Asp Leu Ala Thr Gly Ser Gln Thr
        355                 360                 365
Gly Thr Val Pro His Gly Gly Leu Arg Gln Ser Ile Gly Gly Asn Ser
    370                 375                 380
Thr Arg Gly Ser Leu Gly Phe Asn Pro Arg Arg Ser Leu Pro Pro Gly
385                 390                 395                 400
Asn Trp Leu Arg Ile Gln His Ser Lys Gln Phe Arg Arg Cys Thr Gly
                405                 410                 415
```

<210> 25668
<211> 166
<212> PRT
<213> A.fumigatus

<400> 25668

```
His Trp Gln Cys Asp Val Leu Val Ala Ser Phe Asp Ala Thr Val Leu
1               5                   10                  15
Arg Thr Thr Gly Val Lys Leu Val Gln His Leu Trp Ala Ser Asp Ile
            20                  25                  30
Ser Ala Glu Leu Ala Val Asp Ala Ser Ser Leu Glu Glu Leu Leu Ser
        35                  40                  45
Glu Tyr Lys Glu His Asn His Ser Trp Ile Val Ile Ala Lys Gln Asp
    50                  55                  60
Ser Lys Glu Arg Gly Phe Lys Val Arg Cys Leu Ala Pro Arg Glu Glu
65                  70                  75                  80
Leu Asp Ile Arg Ser Ser Glu Leu Ile Pro Trp Leu Arg Asn Glu Ile
                85                  90                  95
Arg Ala Arg Asn Gln Arg Glu Gly Ala Pro Asp Leu Arg Gln Ser Arg
```

```
            100                 105                 110
Leu Pro Ser Gln Ser Asp Ala Ile Ala Gly Ala Asn Glu Arg Ser Ser
        115                 120                 125
Asp Val Arg Ile Leu Val Ser Gln His Arg Ser Lys Lys Thr Asn Arg
    130                 135                 140
Arg Asn Ile Val Glu Ser Gly Met Ser Cys Ser Lys Asn Ser His His
145                 150                 155                 160
Cys Thr Asn Asn Gln Asn
                165
```

<210> 25669
<211> 107
<212> PRT
<213> A.fumigatus

<400> 25669

```
Ser Phe Glu Ala Ala Leu Leu Arg Ser Arg Glu Val Val Glu Lys Ala
1               5                   10                  15
Ile Asn Gly Pro Ile Ala Ala Ile Asp Thr Arg Asp Asp Leu Leu Glu
            20                  25                  30
Ala Ile Arg Asp Thr Arg Leu Ser Asp Pro Glu Ser Trp Arg Ser Val
        35                  40                  45
Ile Gln Ser Ala Pro Leu Thr Glu Arg Lys Tyr Leu Ser Gln Val His
    50                  55                  60
Glu Leu Leu Leu Asp Leu Ser Asn Glu Cys Arg Ala Asn Asp Gly Pro
65                  70                  75                  80
Asp Ser Val Ser Asn Ala Phe Ile Tyr Asn Tyr Arg Thr Gly Ser Cys
                85                  90                  95
Leu Tyr Tyr Asp Leu Gly Arg Gly Ser Glu Lys
            100                 105
```

<210> 25670
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25670

```
Gln Ala Ile Tyr Asn His Ile Ile Thr Leu Ser Gly Arg His Ile Phe
1               5                   10                  15
Tyr Tyr Tyr Arg Phe Lys Ser Thr Asp Ser Ser Arg Leu Leu Ser Thr
            20                  25                  30
Ser Ser Ser Ser Ser Ser Ser Leu Leu Asp Gln Ser Phe Val Glu Thr
        35                  40                  45
Pro Ala Asn Trp Ser Pro Val Leu Ser Ile Ile Cys Ser Gly Ser Ala
    50                  55                  60
Leu Ser Ala Pro Pro Ile Lys Ile Ala Phe Tyr Ser
65                  70                  75
```

<210> 25671
<211> 192
<212> PRT
<213> A.fumigatus

<400> 25671

```
Gly Ser Ile Glu Gln Glu Asp Pro Gln Ala Ser Ile Gln Ala Asn Lys
1               5                   10                  15
```

```
Arg Glu Lys Gln Trp Leu Gln Ile Leu Asp Arg Lys His Ile Arg Arg
            20                  25                  30
His Gln Arg Ile Pro His His Pro Thr Leu His Ile His Lys Arg Arg
        35                  40                  45
Glu Lys His His Pro Gln Arg Lys Thr His Ile Asp Ile Arg Arg Arg
    50                  55                  60
Pro Leu Pro Arg Arg Met Arg Thr Pro Arg Asn Gly Lys His Gln Gln
65                  70                  75                  80
His Gln Pro Arg His Gln Gln Pro Thr Pro Gln Pro Val His Pro Asp
                85                  90                  95
Phe Pro Arg Phe Pro Ala Leu Arg Lys Ile Thr Arg Asp Arg Glu Lys
            100                 105                 110
Arg Gly His Gly Arg His Arg Gly Gln Asn Pro Pro Asp Glu Glu Ile
        115                 120                 125
Pro Ala Pro Gly Glu Lys Pro Pro Ala Gln Pro Arg Glu Glu Asn Pro
    130                 135                 140
His Glu Glu Thr Gln Arg Arg Ala Ser Ala Val His Ala Glu Lys Gln
145                 150                 155                 160
Val Leu Pro Arg Pro Gly Gly Gly Thr His Tyr Leu Lys Ser Ser Cys
                165                 170                 175
Leu Lys Ala Asp Thr Gln Arg Ala Leu Arg Leu Ala Leu Arg Gly Arg
            180                 185                 190
```

<210> 25672
<211> 168
<212> PRT
<213> A.fumigatus

<400> 25672

```
Ser Lys Lys Ile Pro Lys Leu Pro Tyr Lys Gln Thr Ser Glu Lys Ser
1               5                   10                  15
Asn Gly Phe Arg Tyr Leu Thr Ala Asn Thr Ser Ala Val Thr Ser Gly
            20                  25                  30
Ser Pro Thr Thr Gln Pro Ser Thr Tyr Thr Asn Ala Ala Arg Ser Thr
        35                  40                  45
Thr Pro Ser Ala Arg His Thr Ser Ile Tyr Ala Val Ala His Cys Leu
    50                  55                  60
Gly Ala Cys Ala Leu Pro Ala Met Ala Asn Thr Ser Asn Thr Ser Pro
65                  70                  75                  80
Gly Thr Ser Ser Pro Pro Pro Ser Gln Ser Ile Pro Thr Phe Leu Val
                85                  90                  95
Phe Leu Arg Ser Ala Lys Ser Leu Gly Ile Glu Lys Asn Glu Val Thr
            100                 105                 110
Ala Val Thr Ala Ala Arg Ile Pro Pro Met Lys Lys Tyr Gln Arg Gln
        115                 120                 125
Val Arg Asn Leu Pro Leu Asn Pro Glu Lys Lys Ile Pro Thr Lys Lys
    130                 135                 140
Pro Ser Ala Ala Gln Ala Pro Tyr Thr Leu Lys Asn Lys Phe Phe Arg
145                 150                 155                 160
Gly Pro Gly Ala Val His Thr Thr
                165
```

<210> 25673
<211> 186
<212> PRT
<213> A.fumigatus

<400> 25673
Cys Lys Gly Ser Met Gln Gly Ile Met Asn Ala Ser Pro Leu Gln Ile
1 5 10 15
Val Ala Trp Thr Val Pro Met Ala Phe Gly Gly Leu Leu Ile Ser Thr
20 25 30
Val Gly Gly Phe Ile Met His Arg Ile Pro Gly Thr Ile Leu Met Leu
35 40 45
Ile Ser Cys Val Gly Tyr Leu Gly Ser Gly Leu Phe Phe Ala Leu Ile
50 55 60
Pro Glu Asn Gly Gly Tyr Trp Ala Phe Val Phe Pro Ser Met Ile Cys
65 70 75 80
Gly Thr Ile Gly Ile Asp Ile Ser Phe Asn Val Thr Asn Ile Phe Ile
85 90 95
Thr Ser Asn Met Pro Leu Glu Lys Gln Gly Leu Ala Gly Ala Leu Ile
100 105 110
Asn Cys Thr Leu His Leu Gly Ile Ala Leu His Leu Gly Phe Ala Asp
115 120 125
Ile Val Gln Val Asn Thr Asp Asp Gln Gly Leu Arg Lys Ser Tyr Gln
130 135 140
Ala Val Phe Trp Phe Gln Val Ala Leu Ser Gly Leu Gly Leu Val Val
145 150 155 160
Asn Ala Ile Phe Val Arg Ile Ser Arg Ala Lys Ser Asp Leu Thr Val
165 170 175
Asp Glu Arg Arg Ala Leu Glu Ser Asn Leu
180 185

<210> 25674
<211> 172
<212> PRT
<213> A.fumigatus

<400> 25674
Val Val Cys Thr Ala Pro Gly Pro Arg Lys Asn Leu Phe Phe Ser Val
1 5 10 15
Tyr Gly Ala Cys Ala Ala Leu Gly Phe Phe Val Gly Ile Phe Phe Ser
20 25 30
Gly Leu Ser Gly Arg Phe Leu Thr Trp Arg Trp Tyr Phe Phe Ile Gly
35 40 45
Gly Ile Leu Ala Ala Val Thr Ala Val Thr Ser Phe Phe Ser Ile Pro
50 55 60
Ser Asp Phe Ala Glu Arg Arg Lys Thr Arg Lys Val Gly Met Asp Trp
65 70 75 80
Leu Gly Gly Gly Leu Leu Val Pro Gly Leu Val Leu Leu Val Phe Ala
85 90 95
Ile Ala Gly Ser Ala His Ala Pro Arg Gln Trp Ala Thr Ala Tyr Ile
100 105 110
Asp Val Cys Leu Ala Leu Gly Val Val Leu Leu Ala Ala Phe Val Tyr
115 120 125
Val Glu Gly Trp Val Val Gly Asp Pro Leu Val Thr Ala Asp Val Phe
130 135 140
Ala Val Lys Tyr Leu Lys Pro Leu Leu Phe Ser Leu Val Cys Leu Tyr
145 150 155 160
Gly Ser Leu Gly Ile Phe Leu Leu Tyr Gly Ala Leu
165 170

<210> 25675
<211> 462
<212> PRT
<213> A.fumigatus

<400> 25675

```
Asp Val Met Met Glu Ala Ile Glu Pro Leu Trp Gly Val Pro Ala Ala
1               5                  10                  15
Asp Ile Leu Gly Arg Val Glu Asn Ala Leu Asn Ala Gly Gln Met Ser
            20                  25                  30
Met Ile Arg Phe Ala Ile Ser Asp His His Val Ser His Ser Met Asp
        35                  40                  45
Asn His Ala Pro Trp Met Ala Asp Gln Ile Thr Gly Trp Phe Ser Gln
    50                  55                  60
Glu Met Leu Asp Thr Leu Pro Asp Leu Val Phe Ala Val Asn Val Lys
65                  70                  75                  80
Asp Glu Pro Lys Val Val Val Ala His Asp Ala Leu Glu Gln Val Leu
                85                  90                  95
Ser Gln Ala Arg Thr Ala Leu His Asn Ser Ile Gly Arg Asp Pro Glu
            100                 105                 110
Leu Ser Gln Gln Val Lys Phe Ile Glu Val Gly Arg Gln Asn Ala Trp
        115                 120                 125
Glu Ala Leu Thr Met Ser Cys Ser Ile Asp Phe Pro Ser Arg Ala Phe
    130                 135                 140
Ser Lys Thr Thr Ala Ser Ser Thr Val Ser Glu Val Gly Leu Leu Ser
145                 150                 155                 160
Asn Leu Thr Met Ser Lys Asp Ile Cys Leu Tyr Pro Glu Leu Arg Asn
                165                 170                 175
Leu His Ala Ile Leu Gln Ala Pro Ala Ser Leu Ala Leu Thr His Ser
            180                 185                 190
Leu Val Pro Ile Phe Ser Gln Ala Lys Pro Ser Ser Phe Gln Asp Leu
        195                 200                 205
Leu Tyr Pro Ser Pro Trp Tyr Ala Ala Lys Met Asp Met Met Glu Tyr
    210                 215                 220
Arg Glu Gln Asp Asp Met Asp Trp Glu Gln Lys Glu Asn Leu Val Tyr
225                 230                 235                 240
Trp Thr Gly Ser Thr Thr Gly Gly Tyr Ser Thr Thr Asp Asn Trp Arg
                245                 250                 255
Ser Phe Gln Arg Gln Arg Leu Val Leu Trp Thr Gly Asp Lys Asn Arg
            260                 265                 270
Pro Val Thr Leu Leu Arg Lys Ser Asp Ser Lys Gly Pro Ser Asp Asn
        275                 280                 285
Ile Val Thr Trp Glu Ala Tyr Asn Ser Thr Ile Ala Ser Ile Ser Ser
    290                 295                 300
Ser Leu Lys Ile Arg Met Ser Ala Val Ile Gln Cys Glu Glu Asp Ala
305                 310                 315                 320
Phe Arg Asp Gln Lys Ala Ala Phe Gly Phe Glu Asp Glu Val Lys Asp
                325                 330                 335
Glu Leu Arg Ala Ser Tyr Ala Ala Lys Tyr Thr Leu Asp Leu Asp Val
            340                 345                 350
Asn Gly Phe Ser Gly Arg Phe Tyr Arg Leu Leu Arg Ser Asn Ser Thr
        355                 360                 365
Val Leu Lys His Thr Ile Tyr Lys Glu Trp His Asp Asp Trp Leu Ile
    370                 375                 380
Pro Trp Val His Tyr Ile Pro Val Ser Met Asp Leu Lys Asp Phe Pro
385                 390                 395                 400
```

```
Glu Ile Val Arg Tyr Met Ser Lys Glu Pro Glu Gly Leu Ala Leu Gly
                405                 410                 415
Gln Lys Ile Ala Asp Gln Ser Arg Asp Trp Ser Asn Lys Val Leu Arg
            420                 425                 430
Lys Ile Asp Met Arg Leu Val Phe Trp Arg Leu Leu Leu Glu Tyr Ala
        435                 440                 445
Arg Val Leu Asp Glu Asn Arg Glu Gln Met His Cys Cys Ser
    450                 455                 460
```

<210> 25676
<211> 171
<212> PRT
<213> A.fumigatus

<400> 25676

```
Asp Leu Pro Leu Arg Tyr Gly Arg Ser Trp Ser Gly Glu Gly Lys Val
1               5                   10                  15
Leu Ala Cys Cys Leu Ala Val Asn Gln Thr Ser Gly Gly Arg Thr Lys
            20                  25                  30
Gly Arg Cys Ser Tyr Leu Tyr Gly Ala Ala Thr Ala Val Gly Met Ile
        35                  40                  45
Arg Gly Gly Gly Gly Glu Pro Gln Lys Leu Arg Cys Leu Val Gly Ala
    50                  55                  60
Gly Ala Cys Gly Thr Thr Lys Ser Glu Lys Ala Thr Tyr His Val His
65                  70                  75                  80
Val Pro Leu Leu Ser Glu Asp Leu Asp Leu Leu Leu Gly Gln Ser Ser
                85                  90                  95
Glu Thr Glu His Ala Asp Leu Thr Gly Asp Val Phe Pro Val Ala Arg
            100                 105                 110
Cys Ala Leu Cys Leu Glu Ala Leu Pro Gln Thr Leu Ala His Leu Arg
        115                 120                 125
Asp Thr Thr Ala His Arg Ala Gln Val Leu Leu Pro Leu Ser Glu Glu
    130                 135                 140
Leu Gly Val Ile Glu Asn Ala Ala Ser Asp Ala Arg Pro Ile Arg Arg
145                 150                 155                 160
Arg Val Arg Asn Phe Arg Ala Leu Gln Asp Gly
                165                 170
```

<210> 25677
<211> 137
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25677

```
Ala His Arg Arg Leu Pro Ile Ser Phe Arg Ala Pro Gly Xaa Asp Ala
1               5                   10                  15
Ser Thr Ala Asn Ala Asn Ile Ala Ser Gln Leu Ala Ile Leu Gln Arg
            20                  25                  30
Ser Glu Ile Ser Asn Pro Pro Ala Tyr Gly Ala Arg Ile Ala Ser Arg
        35                  40                  45
Ile Leu Asn Asp Pro Gln Leu Phe Ala Glu Trp Glu Glu Asp Leu Arg
```

```
    50                  55                  60
Thr Met Ser Gly Arg Ile Ala Glu Met Arg Lys Gly Leu Arg Glu Arg
65                  70                  75                  80
Leu Glu Ala Lys Gly Thr Pro Gly Asn Trp Glu His Ile Thr Ser Gln
                85                  90                  95
Ile Gly Met Phe Ser Phe Thr Gly Leu Thr Glu Glu Gln Val Lys Ile
            100                 105                 110
Leu Arg Glu Lys Trp His Val Tyr Met Val Ser Gly Phe Leu Ala Phe
        115                 120                 125
Cys Ser Ser Ala Gly Thr Ser Pro Asp
    130                 135
```

<210> 25678
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25678

```
Ser Ser His Leu Leu Gln Asn Phe Arg Gly Gln His Gly Lys Ala Tyr
1               5                   10                  15
Leu Phe Asn Thr Val Val Asn Val Thr His Ser Glu Ala Val Glu Arg
            20                  25                  30
Asn Met Thr Thr Gly Arg His Ile Val Arg Asp Ile Phe Cys Arg Gln
        35                  40                  45
Cys Ala Glu Leu Val Gly Trp Lys Tyr Asp Lys Ala Tyr Glu Ser Ser
    50                  55                  60
Glu Lys Tyr Lys Glu Gly Lys Phe Ile Leu Glu Glu Glu Leu Leu Cys
65                  70                  75                  80
Val Val Cys
```

<210> 25679
<211> 150
<212> PRT
<213> A.fumigatus

<400> 25679

```
Arg Val Ile Cys His Ile Cys Arg Val Trp Gly Ile Ile Ile Ile Ile
1               5                   10                  15
Ile Ile Ile Ile Ala Pro Ser Ile Leu Met Gly His Pro Gly Glu Ala
            20                  25                  30
Tyr Met Pro Met Thr Ser Tyr Ala Leu Leu Ile Ile Gly Met Ile Tyr
        35                  40                  45
Asp Trp Leu Ala Asn Ala Ser Thr Val Met Cys Lys Gln Leu Asp Leu
    50                  55                  60
Trp Ile Leu Phe Pro Asp Gln Leu Met Thr Thr Phe Asp Thr Ile Gln
65                  70                  75                  80
Ala Gly Asn Phe Leu Ile Arg Arg Ile Val His Ser Ser Ile His His
                85                  90                  95
Ile Gln Leu Gln Ile Ile Glu Ala Arg Glu Ser Val Asp Ala Leu Met
            100                 105                 110
Ile Lys Pro Leu Arg Ile Ile Ile Ala Leu Val Thr Thr Val Asp Met
        115                 120                 125
Lys His Thr Val Leu Leu Leu His Leu Thr Gly Met Pro Glu Leu Met
    130                 135                 140
Asn Asp Lys Cys Asn Ile
```

145 150

<210> 25680
<211> 195
<212> PRT
<213> A.fumigatus

<400> 25680

Arg	Trp	Leu	Thr	His	Ala	Arg	Ser	Phe	Arg	Ser	Trp	Val	Lys	Ser	Tyr
1				5				10						15	
Met	Pro	Tyr	Leu	Gln	Ser	Leu	Gly	His	His	His	His	His	His	His	His
			20					25					30		
His	Arg	Thr	Phe	Asp	Ser	Tyr	Gly	Ala	Ser	Arg	Arg	Ser	Ile	Tyr	Ala
		35					40					45			
Asp	Asp	Phe	Val	Arg	Pro	Ile	Asp	Tyr	Arg	Asp	Asp	Leu	Arg	Leu	Val
	50					55					60				
Ser	Gln	Arg	Gln	His	Gly	His	Val	Gln	Thr	Thr	Gly	Pro	Met	Asp	Ser
65					70					75					80
Leu	Pro	Arg	Pro	Thr	Asn	Asp	His	Leu	Arg	His	His	Ser	Ser	Arg	Glu
				85					90					95	
Phe	Leu	Asp	Pro	Pro	Tyr	Arg	Ala	Leu	Ile	Asn	Pro	Pro	His	Thr	Ala
			100					105					110		
Pro	Asn	His	Arg	Gly	Ala	Gly	Ile	Ser	Arg	Arg	Ala	Asp	Asp	Gln	Thr
		115					120					125			
Leu	Ala	Asp	Tyr	Tyr	Ser	Pro	Ser	Tyr	Tyr	Ser	Arg	His	Glu	Thr	Tyr
	130					135					140				
Gly	Ser	Ser	Leu	Ala	Leu	Asp	Arg	Asp	Ala	Arg	Thr	Asp	Glu	Arg	Gln
145					150					155					160
Met	Gln	His	Leu	Gly	Tyr	Asp	Leu	Asp	Gln	Asn	Leu	Pro	Trp	Trp	Asn
				165					170					175	
Cys	Leu	Ser	Ser	Phe	His	Gln	His	Ser	Leu	Leu	Ile	Phe	Ser	Ser	Phe
			180					185					190		
Arg	Thr	Leu													
		195													

<210> 25681
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25681

Met	Met	Ala	Thr	Ala	Leu	Ala	Pro	Arg	Ile	Arg	Pro	Ser	Ser	Leu	Asn
1				5					10					15	
Ile	Leu	Glu	Ser	Lys	Asn	Ala	Lys	Ile	Pro	Asn	Ala	Leu	Arg	Arg	Lys
			20					25					30		
Asn	Ile	Tyr	Asp	Ala	Met	Gln	Arg	Ser	Ile	Ala	Ala	Gly	Ser	Thr	Thr
		35					40					45			
Phe	Glu	Arg	Val	Phe	Thr	Thr	Gly	Leu	Glu	Gly	Arg	Thr	Gly	Ile	
	50					55					60				

<210> 25682
<211> 465
<212> PRT
<213> A.fumigatus

<400> 25682

```
Asp Asp Ser Val Phe Glu Ile Thr Tyr Ser Tyr Ile Gly Pro Ser Ser
1               5                  10                  15
Pro Asp Phe Ala Leu Phe Phe Phe Val Ser Pro Pro Arg Gln Ile Phe
            20                  25                  30
Tyr Ser Val His Leu Pro Ser Leu Phe His Pro Pro Gly Phe Asn Gln
        35                  40                  45
Ser Thr Thr Thr Thr Thr Thr Thr Ala Cys Leu Val Pro Pro Ser Pro
    50                  55                  60
Arg Tyr Ser Met Pro His Gly Ile Arg Ala Pro Gly Asp Gly Ile Thr
65                  70                  75                  80
Gly Gly Tyr Thr Gly Asp Ser Leu Ala Leu Lys Ile Thr Ile Ala Thr
                85                  90                  95
Leu Ala Gly Ile Thr Trp Tyr Asn Ala Ile Glu Leu Val Ile Leu Val
            100                 105                 110
Phe Val Thr Phe Ser Lys Tyr His Gly Thr Tyr Phe Trp Ser Leu Leu
        115                 120                 125
Val Ser Ser Ser Ile Gly Leu Leu Pro Tyr Ser Val Gly Phe Leu Leu
    130                 135                 140
Lys Phe Phe Gln Leu Thr Asp Gln Thr Trp Leu Ser Val Thr Phe Ile
145                 150                 155                 160
Thr Val Gly Trp Trp Cys Met Val Thr Gly Gln Ser Ile Val Leu Tyr
                165                 170                 175
Ser Arg Leu His Leu Val Val Arg Asn Pro Arg Ile Leu Arg Arg Val
            180                 185                 190
Leu Thr Met Ile Leu Val Asp Ala Val Ile Phe His Ile Pro Thr Thr
        195                 200                 205
Val Leu Thr Tyr Gly Ser Asn Leu Ala Gly Pro Val Asp Ala Pro Ala
    210                 215                 220
Tyr Ile Arg Gly Tyr Asn Val Met Glu Lys Ile Gln Met Thr Gly Phe
225                 230                 235                 240
Cys Ile Gln Glu Phe Val Ile Ser Ala Leu Tyr Ile Trp Glu Thr Ile
                245                 250                 255
Arg Met Leu Arg Leu Asp Pro Asp Arg Gly Lys Arg Lys Ile Met Tyr
            260                 265                 270
Gln Leu Val Ala Ile Asn Leu Ile Ile Ile Leu Met Asp Leu Gly Leu
        275                 280                 285
Leu Val Val Glu Tyr Met Asn Lys Tyr Ile Met Glu Thr Met Leu Lys
    290                 295                 300
Gly Val Ile Tyr Ser Ile Lys Leu Lys Leu Glu Phe Ala Val Leu Gly
305                 310                 315                 320
Lys Leu Val Tyr Leu Val His Asn His Val Trp Lys Ser Asp Pro Ile
                325                 330                 335
Gly Val Ala Gly Glu Asp Cys His His Gln His Tyr Ile Asn His Thr
            340                 345                 350
Ala Gly Tyr Ser His Pro Asp Tyr His Tyr Pro Asp Phe Val Asp Ala
        355                 360                 365
Thr Arg Ile Thr Ser Asp Leu Thr Arg Ala Val Pro Pro Ala Ser Ser
    370                 375                 380
Ser Ala Asn Ala Arg Arg Arg Cys His Pro Trp Met Asp Ser Asp Asp
385                 390                 395                 400
Ile Ser Ile Ala Met Phe Glu His Ser Glu Asn Ala Thr Pro Ser Leu
                405                 410                 415
Pro Asp Gln Ala Thr Gly His Ser Glu Ile Ser Gln Ser Trp Ser Gly
            420                 425                 430
Glu Thr Gln Arg Asp Val Ser Pro Leu Asp Phe Thr Gly Ser Val His
        435                 440                 445
```

```
Lys Gln His Asn Ser Ile Ser Val Ser Ala Pro Ala Pro Asp Lys Pro
    450                 455                 460
Gly
465

<210> 25683
<211> 146
<212> PRT
<213> A.fumigatus

<400> 25683
Thr Asn Thr Ser Trp Lys Pro Cys Ser Arg Ala Ser Ser Thr Ala Ser
1               5                   10                  15
Ser Ser Ser Ser Ser Ser Pro Ser Ser Ala Asn Ser Ser Thr Ser Phe
            20                  25                  30
Thr Thr Met Ser Gly Asn Leu Thr Pro Ser Ala Ser Pro Ala Arg Thr
        35                  40                  45
Ala Thr Ile Ser Thr Ile Ser Ile Thr Pro Pro Ala Thr Pro Thr Pro
    50                  55                  60
Thr Thr Thr Thr Pro Thr Ser Ser Thr Arg Pro Ala Ser His Pro Thr
65                  70                  75                  80
Ser Arg Ala Leu Cys Pro Arg His Pro Arg Pro Gln Thr Leu Ala Ala
                85                  90                  95
Ala Ala Thr Pro Gly Trp Thr Arg Thr Thr Ser Pro Ser Pro Cys Ser
            100                 105                 110
Ser Thr Arg Arg Met Gln Pro Pro Arg Ser Pro Thr Arg Leu Pro Ala
        115                 120                 125
Thr Pro Arg Ser Arg Ser Pro Gly Ala Ala Arg Pro Ser Ala Thr Ser
    130                 135                 140
Val Arg
145

<210> 25684
<211> 246
<212> PRT
<213> A.fumigatus

<400> 25684
Pro Ser Ile Glu Asn His His Cys Asp Ser Gly Gly Asn His Leu Val
1               5                   10                  15
Gln Cys His Arg Thr Arg His Ser Arg Leu Arg His Leu Gln Gln Val
            20                  25                  30
Ser Trp His Leu Leu Leu Glu Leu Ala Arg Leu Leu Val Tyr Trp Ala
        35                  40                  45
Pro Pro Leu Leu Gly Arg Leu Pro Pro Gln Val Leu Pro Ala Asp Arg
    50                  55                  60
Pro Asp Leu Ala Val Arg His Leu His His Cys Trp Leu Val Val His
65                  70                  75                  80
Gly His Arg Pro Val His Arg Pro Leu Leu Thr Pro Ala Pro Gly Arg
                85                  90                  95
Ala Gln Pro Thr His Pro Ala Pro Arg Ser His His Asp Pro Arg Arg
            100                 105                 110
Arg Arg His Leu Pro His Pro His His Cys Ala Asp Leu Arg Leu Gln
        115                 120                 125
Leu Gly Arg Pro Arg Arg Arg Pro Gly Leu His Pro Arg Leu Gln Arg
    130                 135                 140
```

```
Asp Gly Lys Asp Pro Asp Asp Arg Leu Leu Tyr Thr Gly Ile Arg His
145                 150                 155                 160
Leu Arg Pro Leu His Leu Gly Asn His Pro His Ala Ala Pro Arg Pro
                165                 170                 175
Gly Pro Arg Gln Ala Gln Asp His Val Pro Ala Arg Arg His Gln Pro
            180                 185                 190
His His His Pro His Gly Pro Arg Pro Ala Arg Cys Arg Val His Glu
        195                 200                 205
Gln Ile His His Gly Asn His Ala Gln Gly Arg His Leu Gln His Gln
    210                 215                 220
Ala Gln Ala Arg Val Arg Arg Pro Arg Gln Thr Arg Leu Pro Arg Ser
225                 230                 235                 240
Gln Pro Cys Leu Glu Ile
                245
```

<210> 25685
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25685

```
Ile Thr Ala Ser Met Ser Ala Gly Ser Phe Ala Gly Ala Ile Ala Ala
1               5                   10                  15
Gly Phe Ile Ser Asp Arg Ile Gly Arg Arg Leu Ser Leu Leu Val Ala
            20                  25                  30
Ser Leu Val Trp Ile Thr Gly Ala Val Ile Gln Cys Ser Ala Gln Asn
        35                  40                  45
Val Ala His Leu Val Ala Gly Arg Val Ile Ser Gly Leu Ser Gly Ile
    50                  55                  60
Leu Pro Gly His His Ser Thr Glu Leu Asp Arg Ser
65                  70                  75
```

<210> 25686
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25686

```
Asn Glu Asp Val Arg Val Met Phe Ser Asp Phe Gly Arg Ala Lys Val
1               5                   10                  15
Thr Arg Lys Arg Lys Ser Ser Gly Gln Lys Pro Gln Leu Ser Lys Ser
            20                  25                  30
Lys Glu Ala Glu Asp Gly Tyr Ala Val Arg Gly Arg Cys Leu Gly Arg
        35                  40                  45
Leu Ser His Val Ile Ala Trp Ser Asn Tyr Tyr Ser Ser Glu Ser Lys
    50                  55                  60
Asp Leu Gln Arg Cys Gly Ser Tyr Ile Pro Pro Glu Ala Tyr Phe Asn
65                  70                  75                  80
Asp Gln Asn Ser Asn
                85
```

<210> 25687
<211> 321
<212> PRT
<213> A.fumigatus

<400> 25687
Arg Pro Leu Tyr Leu Gly Ser Ala Lys Ser Asn Ile Gly His Gly Glu
1 5 10 15
Ser Ala Ser Gly Val Thr Ser Leu Val Lys Val Leu Leu Met Leu Lys
20 25 30
Gln Asn Met Ile Pro Pro His Cys Gly Ile Lys Thr Lys Ile Asn His
35 40 45
Asn Phe Pro Thr Asp Leu Ala Gln Arg Asn Val His Ile Ala Phe Lys
50 55 60
Pro Thr Pro Trp Asn Arg Pro Val Ser Gly Lys Arg Lys Met Phe Ile
65 70 75 80
Asn Asn Phe Ser Ala Ala Gly Gly Asn Thr Ala Leu Leu Met Glu Asp
85 90 95
Ala Pro Leu Arg Glu Ile Thr Gly Gln Asp Pro Arg Asn Val His Val
100 105 110
Val Ser Val Thr Ala Arg Ser Gln Thr Ala Leu Lys Arg Asn Ile Asn
115 120 125
Ala Leu Ile Lys Tyr Ile Asn Thr His Ala Pro Ser Ser Pro Ala Asn
130 135 140
Glu Arg Arg Phe Leu Ala Ser Leu Ala Tyr Thr Thr Thr Ala Arg Arg
145 150 155 160
Met His His Pro Phe Arg Val Thr Ala Val Gly Ser Ser Val Lys Asp
165 170 175
Ile Arg Glu Val Leu Arg Gln Arg Ala Asp Gln Asp Val Thr Thr Pro
180 185 190
Val Pro Ala Thr Ala Pro Lys Thr Gly Phe Val Phe Thr Gly Gln Gly
195 200 205
Ala Gln Tyr Thr Gly Met Gly Lys Gln Leu Tyr Glu Asp Cys Ala Thr
210 215 220
Phe Arg Ser Thr Ile His Arg Leu Asp Cys Ile Ala Gln Ser Gln Gly
225 230 235 240
Phe Pro Ser Ile Leu Pro Leu Ile Asp Ala Ser Met Pro Val Glu Glu
245 250 255
Leu Ser Pro Val Val Thr Gln Leu Gly Thr Thr Cys Leu Gln Met Ala
260 265 270
Leu Val Asp Tyr Trp Lys Gly Leu Gly Val Pro Pro Ala Leu Val Leu
275 280 285
Gly His Asn Leu Gly Lys Leu Pro Thr Leu Asn Ser Cys Gly Val Leu
290 295 300
Ser Thr Gln Arg Thr Asn Leu Pro Ser Trp Gly Arg Arg Ala Pro Phe
305 310 315 320
Phe

<210> 25688
<211> 117
<212> PRT
<213> A.fumigatus

<400> 25688
Arg Val Leu Asp Lys Leu Thr Ile Lys Ser Ile Thr Pro Pro Thr Thr
1 5 10 15
Ala His Gly Pro Pro Thr Asp Ala Glu Trp Ile Val Lys Thr Pro Tyr
20 25 30
Thr Thr Thr Glu Val Gln Arg Gln Met Glu Leu Ile Lys Gln Leu Ile
35 40 45

```
Lys Cys Asn Ser Gln Ser Pro Pro Thr Lys Ala Thr Arg Gln Leu Ala
    50                  55                  60
Lys Ala Ala Glu Ser Thr Met His Lys Val Leu Leu Asp Gln Glu
65                  70                  75                  80
Ile Lys Gly Leu His Thr Ala Asn Glu Lys Gln Lys Arg Lys Arg Ala
                85                  90                  95
Thr Pro Arg Ser Tyr Ile Ala Thr Gly Gly Val Leu Thr Gly Ala Glu
            100                 105                 110
Gly Gln Gln Leu Ala
        115
```

<210> 25689
<211> 267
<212> PRT
<213> A.fumigatus

<400> 25689

```
Arg Leu Arg Ser Trp Met Leu Gly Pro Asp Trp Pro Ser His Gly Glu
1               5                   10                  15
Ile Asp Ile Ile Glu Gly Val Asn Thr Gln Pro Val Asn Gln Met Thr
            20                  25                  30
Leu His Ser Thr Asp Gly Cys Ser Ile Ala Asn Gly Gly Phe Thr Gly
        35                  40                  45
Thr Leu Leu Thr Ser Asn Cys Tyr Asp Tyr Ala Pro Ser Gln Asp Thr
    50                  55                  60
Asn Ala Gly Cys Gly Ile Ala Ala Thr Ser Ser Arg Thr Tyr Gly Thr
65                  70                  75                  80
Gly Phe Asn Asn Ala Gly Gly Gly Ile Tyr Ala Thr Glu Trp Thr Ser
                85                  90                  95
Ala Gly Ile Ser Ile Trp Phe Phe Pro Arg Gly Ser Thr Pro Thr Asp
            100                 105                 110
Ile Arg Ala Gly Thr Pro Asn Pro Thr Asn Trp Gly Pro Pro Leu Ala
        115                 120                 125
Lys Phe Ala Pro Gly Ser Cys Ser Phe Asp Ala His Phe Ser Glu Met
    130                 135                 140
Gln Ile Val Cys Pro Phe Arg Pro Arg Ser Ile Cys Pro Pro Trp Val
145                 150                 155                 160
Leu Pro Arg Ala Asp Arg Trp Lys Thr Asn Lys Val Phe Asp Thr Thr
                165                 170                 175
Phe Cys Gly Gly Trp Ala Gly Ser Val Trp Gly Ser Gly Ser Cys Ala
            180                 185                 190
Ser Val Ala Pro Ser Cys Gln Asp Phe Val Ala Asn Asn Pro Ser Ala
        195                 200                 205
Phe Arg Glu Ala Tyr Trp Leu Ile Glu Ser Leu Lys Val Tyr Gln Asp
    210                 215                 220
Ala Pro Gly Glu Ser Asn Asn Met Arg Met Asn Ala Thr Ser His Leu
225                 230                 235                 240
Asn Val Gln Leu Pro Arg Lys Gly Gly Arg Arg Ser Pro Gly Leu His
                245                 250                 255
Gly Arg Gly Phe Leu Glu Gly Thr Gly Lys Trp
            260                 265
```

<210> 25690
<211> 200
<212> PRT
<213> A.fumigatus

<400> 25690
Pro Ser Thr Pro Arg Thr Gly Ala Pro Ser Pro Met Ala Ala Ser Pro
1 5 10 15
Ala Pro Cys Ser Pro Ala Thr Ala Thr Thr Met Pro Pro Ala Lys Thr
20 25 30
Pro Thr Gln Asp Ala Ala Ser Leu Pro Pro Gln Ala Gly His Thr Gly
35 40 45
Arg Gly Ser Thr Thr Pro Ala Ala Ala Tyr Thr Gln Gln Ser Gly Pro
50 55 60
Leu Gln Val Ser Ala Ser Gly Ser Ser Leu Ala Asp Pro Pro Pro Arg
65 70 75 80
Ile Ser Glu Pro Ala His Pro Thr Arg Arg Ile Gly Ala Arg Arg Ser
85 90 95
Pro Ser Leu Pro Arg Glu Ala Ala Ala Leu Met Pro Thr Leu Ala Arg
100 105 110
Cys Arg Leu Tyr Val Leu Ser Val Pro Ala Pro Phe Val Pro Leu Gly
115 120 125
Phe Cys Arg Gly Leu Thr Asp Gly Lys Gln Ile Arg Ser Ser Ile Arg
130 135 140
Arg Ser Ala Ala Ala Gly Gln Ala Val Ser Gly Ala Leu Val Ala Val
145 150 155 160
Arg Pro Trp Arg Pro Arg Ala Arg Ile Ser Ser Arg Ile Thr Pro Leu
165 170 175
Arg Ser Gly Arg Arg Thr Gly Ser Leu Asn Arg Ser Arg Cys Ile Arg
180 185 190
Met Arg Leu Gly Arg Val Ile Thr
195 200

<210> 25691
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25691
Lys Tyr Arg Tyr Leu Phe Asp Xaa Asp Gly Ala Gly Phe Ser Gly Arg
1 5 10 15
Phe Leu Pro Phe Leu Gln Ser His Ser Leu Pro Phe Lys Thr Gly Leu
20 25 30
Phe Arg Gln Trp Leu Asp Gly Arg Val Thr Pro Trp Leu His Tyr Val
35 40 45
Pro Ile Asp Val Arg Leu His Gly Val Trp Ser Thr Leu Ala Tyr Phe
50 55 60
Ser Lys Phe Asp Val Pro Val Thr Glu Gly Pro Asp Gly Gln Pro Lys
65 70 75 80
Asp Thr Ile Gln Arg His Asp Ala Arg Gly Lys Tyr Ile Ala Glu Glu
85 90 95
Gly Arg Lys Trp Ala Glu Lys Pro Leu Arg Lys Glu Asp Met Glu Ile
100 105 110
Tyr Phe Phe Arg Leu Leu Leu Glu Trp Gly Arg Leu Thr Asp Asp Asn
115 120 125

Arg Asp Met Leu Gly Phe Lys Ile
130 135

<210> 25692
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25692
Lys Asp Trp Val Thr Val Ala Leu Ala Val Lys Ser Gly Pro Asp Asn
1 5 10 15
Arg Val Val Glu Met Val Ser Thr Ser Gly Thr Gln Phe Ile Tyr Gly
20 25 30
Arg Leu Thr Asn Asn Glu Ala Asp Leu Glu Pro Thr Lys Tyr Pro Gln
35 40 45
Ser Phe Trp Phe Trp His Arg Pro Ile Ser Ser Gln
50 55 60

<210> 25693
<211> 80
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (80)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25693
Ile Leu His Gly Thr Ile Ile Gln Met Phe Ser Met Leu Ser Leu Pro
1 5 10 15
Asp Leu Ile Pro Thr Val Ala Ala Ala Ser Met Leu Ser His Leu Trp
20 25 30
Ser Ala Thr Val Tyr Pro Leu Val Thr Asp Gln Leu His Val Pro Gly
35 40 45
Leu Ser Ser Ser Leu Phe Val Asn Phe Val Cys Asp Ile Pro Phe Ala
50 55 60
Val Pro Val Val Leu Val Gly Gly Val Phe Asp Trp Tyr Ser Met Xaa
65 70 75 80

<210> 25694
<211> 251
<212> PRT
<213> A.fumigatus

<400> 25694
Lys Ala Gly Asp Asp Arg Asn Gly Val Asp Gln Cys Arg Phe Ser Leu
1 5 10 15
Gln Arg Ser His Phe Asp Leu Phe Arg Leu Pro Ser Cys Glu Met Val
20 25 30
Thr Met Lys Leu Leu Tyr Leu Thr Ser Phe Ala Ser Leu Ala Val Ala
35 40 45
Asn Gly Pro Gly Trp Asp Trp Lys Pro Arg Val His Pro Val Ser Val
50 55 60
Pro Leu Ala Gly Phe Val Cys Cys Met Leu Thr Ala Ser Cys Leu Leu
65 70 75 80

```
Gln Lys Val Leu Pro Gln Met Ile His Leu Trp Asp Leu Leu Gln Gly
                85                  90                  95
Ala Gln Gln Leu Glu Asp Phe Ala Tyr Ala Tyr Pro Glu Arg Asn Arg
            100                 105                 110
Val Phe Gly Gly Arg Ala His Glu Asp Thr Val Asn Tyr Leu Tyr Arg
        115                 120                 125
Glu Leu Lys Lys Thr Gly Tyr Tyr Asp Val Tyr Lys Gln Pro Gln Val
    130                 135                 140
His Gln Trp Thr Arg Ala Asp Gln Ala Leu Thr Val Asp Gly Gln Ser
145                 150                 155                 160
Tyr Asp Ala Thr Thr Met Thr Tyr Ser Pro Ser Val Asn Ala Thr Ala
                165                 170                 175
Pro Leu Ala Val Val Asn Asn Leu Gly Cys Val Glu Ala Asp Tyr Pro
            180                 185                 190
Ala Asp Leu Thr Gly Lys Ile Ala Leu Ile Ser Arg Gly Glu Cys Thr
        195                 200                 205
Phe Ala Thr Lys Ser Val Leu Ser Ala Lys Ala Gly Ala Ala Ala Ala
    210                 215                 220
Leu Val Tyr Asn Asn Ile Glu Gly Ser Met Ala Gly Thr Leu Gly Leu
225                 230                 235                 240
His His Glu Ala Arg Arg Ile Arg Asp Lys Val
                245                 250
```

<210> 25695
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25695

```
Pro Ser Pro Tyr Ser Val Ser Ile Glu Arg Asp His Lys Pro Ile Gln
1               5                   10                  15
Val Cys Lys Lys Gly Gln Pro Ser Val Ala Val Lys Ile Glu Gly Ala
            20                  25                  30
Asn Gln Pro Met Tyr Gly Arg Gln Leu Glu Glu Lys Asp Thr Leu Tyr
        35                  40                  45
Ser His Ile Ser Arg Ala Ser Ile Asp Thr Leu Lys Glu Phe Tyr Arg
    50                  55                  60
Ser Asp Val Ser Met Glu Glu Trp Ala Leu Ile Lys Lys Leu Lys Pro
65                  70                  75                  80
Val Phe Asp Ile Pro
                85
```

<210> 25696
<211> 237
<212> PRT
<213> A.fumigatus

<400> 25696

```
Arg Asn Ser Cys Pro Lys Phe Ala Ile Met Phe Pro Asn Lys Gly Gly
1               5                   10                  15
Ser Arg Pro Ala Leu Gly Cys Gln Asp Ser Leu Ala Asn Ala Leu Glu
            20                  25                  30
Gln Ser His Cys Arg Phe Pro Val Tyr Trp Leu Leu Asp Leu Asn Ala
        35                  40                  45
Ala Lys Glu Ile Ile Glu Glu Gly Ser His Val Glu Ser Gly Asp Leu
    50                  55                  60
```

```
Leu Thr Lys Val Ser Arg Asp His Gly Gly Val Ser Val Gln Ala Ser
65                  70                  75                  80
Thr Leu Gly Ser Phe Glu Ala Leu Leu Glu Phe Leu Arg Val Ser Lys
                85                  90                  95
Ile Pro Val Ala Asn Ile Ser Ile Gly Leu Phe Tyr Lys Arg Asp Val
            100                 105                 110
Met Met Cys Gly Thr Met Leu Glu Lys Ala Lys Glu Tyr Ala Val Met
        115                 120                 125
Leu Cys Phe Asp Val Lys Val Asp Lys Glu Ala Ala Ala Tyr Ala Glu
    130                 135                 140
Glu Val Gly Val Lys Ile Phe Thr Ala Asp Ile Ile Tyr His Leu Phe
145                 150                 155                 160
Asp Asp Phe Thr Lys His Met Ala Glu Leu Thr Glu Lys Arg Lys Glu
                165                 170                 175
Glu Ser Lys Leu Leu Ala Val Phe Pro Cys Val Leu Arg Pro Val Ala
            180                 185                 190
Val Phe Asn Lys Lys Asp Pro Ile Val Ile Gly Leu Asp Val Ile Glu
        195                 200                 205
Gly Ser Leu Arg Met His Thr Pro Ile Ser Ala Val Lys Thr Asn Pro
    210                 215                 220
Thr Thr Gly Ala Lys Glu Ile Ile Asp Leu Gly Arg Val
225                 230                 235
```

<210> 25697
<211> 206
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (159)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25697

```
Lys Met His Ser Ser Ala Tyr Ala Asp Ile Leu Pro Met Thr Ile Gly
1               5                   10                  15
Asn Arg Val Ser Phe Glu Asp Cys Glu Leu Tyr Pro Ala Pro Asp Ser
            20                  25                  30
Cys Ala Asp Pro Ala Tyr Phe Pro Asn Glu Ser Gln Phe Gln Leu Arg
        35                  40                  45
Ser Ser His Leu Gln Ser Ile Pro Lys Thr His Tyr Phe Pro Ala Tyr
    50                  55                  60
Met Ser Trp Thr His Gly Ser Leu Pro Ser His Thr Ala Gly Pro Leu
65                  70                  75                  80
Ser Val Met Glu Met Gly Leu His Pro Val Leu Leu Ser Pro Asp Arg
                85                  90                  95
Val Ala Ser Pro Trp Ser Gly Tyr Ser Ser Ile Ser Gly Ala Glu Ser
            100                 105                 110
Pro Gly Ser Thr Ala Asp Gly Ser Phe Ala His Ser Asn Met Met Glu
        115                 120                 125
Pro Tyr Pro Ser Pro Pro Tyr Ala Tyr Asp Asp Pro Arg Asp Ser Ser
    130                 135                 140
Val Lys Ala Glu Gln Tyr Ser Ser Pro Val Thr Ser Ile Thr Xaa Ser
145                 150                 155                 160
Val Ala Leu Pro Gln Ile Gln Thr Tyr Pro Glu Pro Arg Pro Met Val
                165                 170                 175
```

```
Lys Ser Pro Tyr Ser Val Thr Ala Pro Ala Gln Pro Asn Val Phe Glu
            180                 185                 190
Glu His Asn Cys Ser Glu Arg Ile Gly Ser Leu Gly Ser Ser
        195                 200                 205
```

<210> 25698
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25698

```
Leu Gly Pro Leu Val Cys Ile Ser Leu Leu Gly Ile Gly His Gly Tyr
1               5                   10                  15
Met Leu Thr Ser Gln Leu Gly Ser Gln Val Thr Ser Trp Val Ile Ser
            20                  25                  30
Gln Glu Gly Gly Leu Thr Val Gly Phe Ile Thr Pro Leu Leu Val Asn
        35                  40                  45
Phe Lys Asn Pro Ile Trp Phe Gln Glu Gly Asn Tyr Arg Gly Thr Asn
    50                  55                  60
```

<210> 25699
<211> 126
<212> PRT
<213> A.fumigatus

<400> 25699

```
Tyr Asp Gly Asn Ala Ile Gly Arg Asn Ser Lys Asn Leu Thr Val Ala
1               5                   10                  15
Leu Ser Thr Leu Ser Thr His Thr Lys Pro Gln Pro Pro Ser Gln Asp
            20                  25                  30
Asp Glu Gln Lys Gly Ser Ala Asn Asp Pro Leu Leu Arg Asp Ile Gln
        35                  40                  45
Leu Pro Pro Glu Ile Ile Asp Tyr Val Asp Ala Ala Arg Asn Pro Asp
    50                  55                  60
Ile Tyr Thr Arg Glu Phe Val Glu Leu Val Gln Arg Gly Asn Gln Asp
65                  70                  75                  80
Leu Lys Gly Lys Lys Glu Ala Phe Ala Ser Phe Arg Asp Val Leu Ala
                85                  90                  95
Arg Glu Met Arg Ser Ala Met Pro Glu Cys Arg Gly Glu Val Glu Arg
            100                 105                 110
Val Leu Ala Ala Thr Gly Gly Ala Arg Ala Asp Thr Glu Gln
        115                 120                 125
```

<210> 25700
<211> 149
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (126)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25700

```
Cys Arg Arg Gln Asn Pro Thr Ser Arg His Tyr Asp Tyr Arg Leu Ile
1               5                   10                  15
```

```
Leu Gly Arg Val Glu Ala Leu Met Thr Ala Arg Glu Glu Glu Asp Ile
            20                  25                  30
Leu Thr Leu Ala Asn Leu Leu Arg Ser Gly Leu Val Arg Asn Leu Gly
        35                  40                  45
Asn Ile Thr Ser Pro Lys Leu Phe Leu His Ala Tyr Ala Gly Thr Lys
    50                  55                  60
Leu Leu Ile Asp Asp Tyr Ile Thr Gln Val Ala Leu Ser Ile Gln His
65                  70                  75                  80
Ile Ala Ala Leu Gln Thr Ala Pro Val His Glu Ser Gly Phe Thr Ser
                85                  90                  95
Gln Ala Lys Leu Glu Leu Leu His Asp Thr Arg Gln Ala Phe Gly Lys
            100                 105                 110
Thr Thr Leu Leu Leu Gln Gly Gly Ser Ile Phe Gly Val Xaa His Leu
        115                 120                 125
Gly Val Val Lys Ala Leu His Leu Gln Gly Leu Leu Ala Lys Ile Ile
    130                 135                 140
Thr Gly Ser Gly Ser
145

<210> 25701
<211> 82
<212> PRT
<213> A.fumigatus

<400> 25701
Ile Val Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Gln Ala Pro Ser
1               5                   10                  15
Val Gln Ser Glu Val Trp Glu Glu Glu Arg Leu Pro Phe Tyr Arg Pro
            20                  25                  30
Glu Gln Phe Tyr Pro Val His Ile Gly Glu Leu Leu Asn Ser Lys Tyr
        35                  40                  45
Arg Val Val Gly Lys Leu Gly Tyr Gly Ala Tyr Ser Thr Val Trp Leu
    50                  55                  60
Cys His Glu Lys Gly Cys Ala Leu Ala Phe Ser Phe Arg Asp Asp Asp
65                  70                  75                  80
Gln Tyr


<210> 25702
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25702
Ile Arg Asn Thr Gly Leu Trp Glu Ser Leu Ala Met Ala Leu Ile Leu
1               5                   10                  15
Leu Tyr Gly Tyr Val Met Arg Arg Gly Val Leu Trp Leu Phe Leu Phe
            20                  25                  30
Glu Met Met Thr Ser Thr Asn Leu Asp Leu Ala Ser Glu Gln Lys Tyr
        35                  40                  45
Val Ala Val Lys Val Leu Ala Ser Asn His Gln Glu Gln Ala Leu Ser
    50                  55                  60
Gly Glu Leu Gly Ile Tyr Lys His Leu Ser Arg Leu Lys Ser Ser His
65                  70                  75                  80
Ile Gly Ser Ala Tyr Ile Arg Gly Leu
                85
```

<210> 25703
<211> 121
<212> PRT
<213> A.fumigatus

<400> 25703
Gly Thr Phe Asp Leu Val Gly Pro Asp Gly Ile His Arg Cys Val Val
1 5 10 15
His Pro Pro Met His Met Ser Leu His Glu Leu Arg Met Arg Ser Arg
20 25 30
Asp Arg Arg Phe Ser Glu Ser Leu Phe Lys Glu Thr Leu Leu Cys Ile
35 40 45
Leu Gln Ala Leu Asp Phe Leu His Arg Glu Gly Asn Val Val His Thr
50 55 60
Gly Met Ser Pro Ala Thr Ala Asp Lys Arg Glu Tyr Leu Leu Glu Met
65 70 75 80
Thr Asp Gly Val Thr Asp Ile Lys Ala Thr Asn Ile Leu Leu Arg Ile
85 90 95
Asp Asp Glu Ser Ile Leu Gln Asp Phe Glu Lys Ala Glu His Gln Ser
100 105 110
Pro Ser Pro Glu Lys Phe Leu Gly Asn
115 120

<210> 25704
<211> 178
<212> PRT
<213> A.fumigatus

<400> 25704
Arg Pro Ala Cys Asp Thr Phe Arg Ser Gly Ala Val Glu Gln Leu Arg
1 5 10 15
Val His Ala Arg Asn Leu Lys Glu Leu Ser Thr Arg Glu Asn Ala Gly
20 25 30
Glu Val Glu Leu Tyr Glu Lys Gly Tyr Gly Lys Asp Ala Ala Asn Val
35 40 45
Ala Lys Asp Ala Val Glu Tyr Gly Ala Ala Asn His Phe Asp Val Val
50 55 60
Leu Ile Asp Thr Ala Gly Arg Arg His Asn Asp Gln Arg Leu Met Ser
65 70 75 80
Ser Leu Glu Lys Phe Ala Lys Phe Ala Lys Pro Asp Lys Ile Phe Met
85 90 95
Val Gly Glu Ala Leu Val Gly Thr Asp Ser Val Met Gln Ala Arg Asn
100 105 110
Phe Asn Gln Ala Phe Gly Thr Gly Arg Asn Leu Asp Gly Phe Ile Ile
115 120 125
Ser Lys Cys Asp Thr Val Gly Asp Met Val Gly Thr Leu Val Ser Met
130 135 140
Val His Ala Thr Gly Ile Pro Ile Val Phe Leu Gly Val Gly Gln His
145 150 155 160
Tyr Gly Asp Leu Arg Gly Leu Ser Val Pro Trp Ala Val Asn Leu Leu
165 170 175
Met Lys

<210> 25705

<211> 93
<212> PRT
<213> A.fumigatus

<400> 25705
Lys Ala Arg Ile Pro Gly Ser Tyr Pro Leu Gln Ala Ile Val Leu Leu
1 5 10 15
Val Ala Arg Thr Arg Asn Met Ala Phe Leu Leu Thr Leu Ala Ala Leu
20 25 30
Gly Cys Ser Ala Gln Gly Ala Val Leu Pro Arg Ala Ser Ile Asp Ser
35 40 45
Asp Ala Val Val Gly Phe Pro Gln Thr Val Pro Ser Gly Thr Thr Gly
50 55 60
Glu Val Tyr Leu Ala Tyr Gln Pro Tyr Leu Lys Val Val Asn Gly Cys
65 70 75 80
Val Pro Phe Pro Ala Val Asp Ala Glu Gly Asn Thr Lys
85 90

<210> 25706
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (70),(71),(72),(73),(74),(77),(80)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25706
Val Pro Pro Arg His Asp Thr Gly Phe Cys Trp Ser Val Gly Ala Asn
1 5 10 15
Ile Asn Ser Ala Gly Leu Ala Pro Thr Gly Ala Ser Asn Gly Asp Cys
20 25 30
Ala Ser Ser Thr Gly Gln Ile Tyr Val Arg Gly Thr Thr Tyr Gly Asn
35 40 45
Tyr Tyr Ala Leu Met Tyr Ser Trp Tyr Cys Leu His His Gly Ala Gly
50 55 60
Arg Ile Ala Arg Gln Xaa Xaa Xaa Xaa Xaa Gln Arg Xaa Val Asn Xaa
65 70 75 80
Lys

<210> 25707
<211> 134
<212> PRT
<213> A.fumigatus

<400> 25707
Glu Arg Arg Asn Ser Ser Ser Ser Arg Ser Leu Ser Leu Ser Leu Asn
1 5 10 15
Leu Asn Gln Gln Ser Gln Asn Asn Lys Lys Lys Thr Lys Arg Ile Leu
20 25 30
Pro Thr Thr Pro Arg Lys Ile Leu Gly Leu Asn Glu Ile Pro Thr Thr
35 40 45
Ser Ala Pro Thr Ala Lys Pro Gln Lys Lys Thr Arg Ser Gln Asn Asn
50 55 60

```
His Asn His Asn Lys Asn Asn Pro Ala Pro Ala Glu Glu Ser Leu Asn
65                  70                  75                  80
Arg Arg Asp Thr Ala Pro Thr Gln Thr Gln Lys Ala Ser Pro Ala Arg
                85                  90                  95
Lys Trp Thr Thr Thr Pro Gln Trp Arg Ser Pro Ala Ala Val Ala Ser
            100                 105                 110
Val Pro Arg Cys Asn Asn Asn Asn Asn Ser Asn Lys Thr Ala Ala His
        115                 120                 125
Trp Ala Gly Ser Val Val
    130
```

<210> 25708
<211> 275
<212> PRT
<213> A.fumigatus

<400> 25708

```
Ser Leu Phe Leu Ser Ser Thr Met Ser Asp Gln Glu Asn Asn Ser Arg
1               5                   10                  15
Pro Ser Ser Pro Thr Pro Asn Pro Thr Gln Thr Glu Glu Gly Ala Pro
            20                  25                  30
Pro Thr Pro Lys Thr Asp Thr Gln Thr Pro Thr Lys Lys Pro Pro Lys
        35                  40                  45
Leu Gly Lys Lys Lys Gln Gln Gln Gln Gln Glu Ser Lys Pro Gln Pro
    50                  55                  60
Glu Pro Glu Pro Ala Glu Pro Glu Gln Gln Glu Glu Asn Glu Glu Asn
65                  70                  75                  80
Pro Pro Asp Asn Thr Lys Glu Asp Pro Arg Pro Gln Arg Asp Thr His
                85                  90                  95
Asp Val Ser Ala Asn Gly Glu Ala Thr Glu Glu Asp Gln Glu Pro Glu
            100                 105                 110
Gln Pro Gln Pro Gln Gln Glu Gln Pro Arg Pro Arg Arg Arg Lys Pro
        115                 120                 125
Gln Pro Gln Arg Tyr Arg Pro Asp Ser Asp Thr Glu Ser Ile Pro Arg
    130                 135                 140
Pro Glu Met Asp Asn Asn Thr Ala Met Glu Lys Pro Arg Arg Arg Arg
145                 150                 155                 160
Gln Arg Pro Gln Met Gln Gln Gln Gln Gln Gln Gln Gln Asp Gly Gly
                165                 170                 175
Pro Leu Gly Gly Leu Gly Gly Val Asn Gln Val Gly Asp Leu Val Gln
            180                 185                 190
Asn Thr Ala Gly Asn Ala Val Asn Gly Val Thr Gly Ser Ala Gly Lys
        195                 200                 205
Ala Val Gly Gly Leu Leu Gly Gly Asn Lys Gly Glu Lys Glu Asp Gly
    210                 215                 220
Gly Arg Asp Glu Gln Leu Arg Leu Thr Leu Asp Leu Asn Leu Asp Ile
225                 230                 235                 240
Glu Val Gln Leu Lys Ala Lys Ile His Gly Asp Leu Thr Leu Gly Leu
                245                 250                 255
Leu Tyr Val Phe Phe Arg Arg Phe Pro Tyr Pro Asp Gly Met Ile Lys
            260                 265                 270
Cys Gly Cys
        275
```

<210> 25709
<211> 341

<212> PRT
<213> A.fumigatus

<400> 25709

```
His Leu Arg Gln Asn Thr Val Asp Arg Leu Ser Pro Phe Leu Val Ala
1               5                  10                  15
Leu Arg Ser Trp Glu Asn Leu Lys Arg Met Leu Gln Gly Arg Asp Cys
            20                  25                  30
Phe Glu Tyr His Ser Ile Ile Gly Gln Thr Ile Leu Thr Met Ser Pro
        35                  40                  45
Arg Leu Ser Arg Lys Leu Thr Gln Leu Pro Thr Leu Phe Leu Gly Leu
    50                  55                  60
Pro Ser Leu Thr Ile Thr Gly Asn Val Ser Val Arg Ser Phe Gly Ile
65                  70                  75                  80
Lys Ser Leu Asn Pro Pro Lys Pro Ser Arg Phe Asn Ile Gly Pro Glu
                85                  90                  95
Leu Pro Val Leu Lys Ser Thr Ser Thr Ala Ala Leu Glu Arg Lys Ala
            100                 105                 110
Asn Thr Leu Pro Leu Arg Thr Gly Ala Ile Ala Ile Lys Lys Gly Met
        115                 120                 125
Thr Ala Val Tyr Asp Ala Glu Thr Gly Lys Arg Ile Ala Cys Thr Val
    130                 135                 140
Leu Gln Leu Asp Arg Val Gln Val Val Ser His Lys Thr Arg Gln Thr
145                 150                 155                 160
His Gly Tyr Asn Ala Val Gln Val Gly Ala Gly Trp Lys His Pro Ser
                165                 170                 175
Asn Val Thr Lys Ser Leu Leu Gly His Phe Ser Thr Asn Gly Val Ser
            180                 185                 190
Pro Lys Arg His Val Tyr Glu Phe Arg Val Lys Asp Glu Ser Gly Leu
        195                 200                 205
Leu Pro Val Gly Gln Thr Ile Asn Ala Asp Trp Phe Gln Glu Cys Gln
    210                 215                 220
Tyr Val Asp Ala Arg Ser Tyr Ser Lys Gly Lys Gly Phe Ala Gly Val
225                 230                 235                 240
Met Lys Arg His Gly Phe His Arg Gln Asp Arg Ser His Gly Val Ser
                245                 250                 255
Leu Thr His Arg Ser Leu Gly Ser Ala Gly Pro Ile Gln Gly Gly Gly
            260                 265                 270
Ser Arg Val Tyr Pro Gly Lys Lys Met Ala Gly Asn Met Gly Asn Glu
        275                 280                 285
Gln Asn Thr Val Gln Asn Leu Lys Val Leu Lys Val Asp Ala Asp Asn
    290                 295                 300
Ser Ile Val Val Val Asn Gly Met Phe Ser Ala Thr Gln Arg Ser Ile
305                 310                 315                 320
Gln His Cys Lys Trp Leu Ile Phe Ile Leu Leu His Val Pro Ser Ala
                325                 330                 335
Gly Leu Lys Asp Ala
            340
```

<210> 25710
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25710

```
Leu Phe Ala Asp Ser Val Ser Tyr Ser Val Asn Ser Asn Tyr Gly Thr
```

```
1               5                   10                  15
Ala Asp Asp Leu Lys Ala Leu Ala Ser Ala Leu His Asp Arg Gly Met
            20                  25                  30
Tyr Leu Met Val Asp Val Val Ala Asn His Met Val Arg Trp Ile Ser
        35                  40                  45
Pro Leu Met Cys Cys Leu Leu Ile Glu Pro Gly Ile Cys Arg Cys Arg
    50                  55                  60
Arg Phe Gly Arg Leu
65
```

<210> 25711
<211> 106
<212> PRT
<213> A.fumigatus

<400> 25711

```
Leu Asn Gln Gly Tyr Ala Gly Ala Gly Asp Ser Val Asp Tyr Ser Val
1               5                   10                  15
Phe Asn Pro Phe Asn Ser Gln Thr Ser Phe His Pro Leu Cys Phe Ile
            20                  25                  30
Ser Asn Tyr Asp Asn Gln Thr Asp Val Glu Asn Cys Trp Leu Gly Asp
        35                  40                  45
Asn Ser Val Pro Leu Pro Asp Leu Asp Thr Thr Asn Pro Asp Val Gln
    50                  55                  60
Lys Ile Trp Tyr Asn Trp Val Asn Ser Leu Val Ser Asn Tyr Ser Ser
65                  70                  75                  80
Lys Asp Gly Leu Leu Val Ser Ala Gln Lys Gln Glu Leu Thr Asp Met
                85                  90                  95
Leu Gln Ser Thr Ala Tyr Glu Leu Thr Leu
            100                 105
```

<210> 25712
<211> 159
<212> PRT
<213> A.fumigatus

<400> 25712

```
Ile Pro Ala Arg Arg Tyr Thr Lys Asp Met Ala Leu Ala Lys Asn Ala
1               5                   10                  15
Ala Ala Phe Ile Ile Leu Ser Asp Gly Ile Pro Ile Ile Tyr Ala Gly
            20                  25                  30
Gln Glu Gln His Tyr Ser Gly Gly Ala Asp Pro Ala Asn Arg Glu Ala
        35                  40                  45
Leu Trp Leu Ser Gly Tyr Ser Thr Thr Ser Asp Leu Tyr Lys Leu Ile
    50                  55                  60
Ala Thr Ala Asn Ala Ile Arg Ser His Ala Leu Ser Asn Asp Pro Gly
65                  70                  75                  80
Ser Val Thr Tyr Asn Val Arg Arg Ser His Ser Arg Lys Glu His Thr
                85                  90                  95
Ile Lys Gln Gly Tyr Ser Thr Pro Ile Asn Thr Pro Ser Asn Lys Tyr
            100                 105                 110
Thr Ser Thr Ile Ser Ile Ala Lys Lys Pro Gln Arg Thr Pro Asn Ile
        115                 120                 125
His Arg Pro Pro Glu Thr Arg Trp Leu Leu Glu Thr Ser Tyr Thr Pro
    130                 135                 140
Ser Leu Gly Leu Asn Thr Ala Ile Lys Gly Arg Thr Gln Leu Lys
```

145 150 155

<210> 25713
<211> 237
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (225)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25713
Val Ser Gln Thr Leu Asp Thr Pro Pro Arg Leu Thr Pro Thr Asp Gln
1 5 10 15
Gly Pro Val Pro Gly Arg Phe Ile His Arg Val Thr Gln Trp Pro Thr
20 25 30
His Pro Pro Val Trp Leu Leu Gly Ser Thr Pro Ile Ser Val Arg Met
35 40 45
Arg Pro Thr Thr Thr Gly Ala Ala Ser Tyr Gly Pro Gly Leu Gln Asn
50 55 60
Tyr Arg Asn Pro Gly Pro Gly Val Pro Pro Ser Val Gly Pro Met Ser
65 70 75 80
Pro Thr Gly Val His Ser Pro Ser Gly Thr Pro Lys Leu Asp Ile Gly
85 90 95
Tyr Ser Ala Pro Leu Asp Gln Pro Pro Asn Thr Asp Ala Arg Arg Arg
100 105 110
Pro Gln Arg Leu Asp Gly Ala Pro Pro Asp Arg Lys Pro Val Arg Thr
115 120 125
Ala Ala Ser Pro His Ser Gln Ala Ser Ser Met Gly Ser Pro Arg Pro
130 135 140
Gln Ala Ser Pro Ser Ala Ala Ser Phe Pro Gln Ser Ser Gly Thr Ser
145 150 155 160
Thr Pro Asn Pro Ser Gly Thr Pro Ala Ser Ala Ala Ser Gln Lys Pro
165 170 175
Thr Thr Gln Pro Ser Lys Pro Ser Ala Gly Gly Leu Pro Gly Lys Gly
180 185 190
Pro Lys Thr Phe Glu Glu Met Gly Val Pro Thr Ala Gln Lys Asp Ser
195 200 205
Asp Cys Val Ser Phe Ser Phe Leu Pro Asp Arg Cys Asn Glu Pro Asn
210 215 220
Xaa Cys Leu Ile Ile Thr Ala Gly Met Glu Gly Met Arg
225 230 235

<210> 25714
<211> 168
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25714
Pro Xaa Val Pro Pro Thr Asp Glu Gln Arg Glu Ala Ser Leu Glu Arg

```
1               5                   10                  15
Ala Arg Ile Ala Val Leu Ser Ser Asn Asp Pro Glu Met Gln Leu Ala
            20                  25                  30
Trp Ala Gln Asp Ala Leu Ala Tyr Val Glu Val Ala Val Gln Asn Glu
        35                  40                  45
Ala Arg Leu Ser Leu Ile Gln Pro Pro Arg Pro Gln Thr Pro Pro Val
    50                  55                  60
Glu Arg Gln Leu Lys Leu Asp Ala Met Asn Ile Val Asn Phe Leu Ala
65                  70                  75                  80
Asp Gln Tyr His Pro Lys Ala Asp Phe Ile Arg Gly Met Trp Leu Glu
                85                  90                  95
Phe Gly Lys Phe Gly His Arg Val Asp Lys Lys Ala Ala Phe Arg Ala
            100                 105                 110
Tyr Thr Arg Ala Ala Asp Arg Gly Tyr Ala Arg Ala Glu Tyr Arg Ile
        115                 120                 125
Gly Met Gln Phe Glu Ser Ser Gly Glu Pro Glu Lys Ala Ile Lys His
    130                 135                 140
Tyr Glu Lys Gly Val Ala Leu Ala Asp Ser Ala Ser Tyr Tyr Val Cys
145                 150                 155                 160
Ser Gly Gln Leu Phe Arg His Lys
                165
```

<210> 25715
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25715

```
Tyr His Gly Arg Gln Arg Leu Gly Met Met Ile Leu Leu Gly Gln His
1               5                   10                  15
Gly Gln Arg Gln Asp Tyr His Met Gly Leu Asp Tyr Ile Ser Leu Ala
            20                  25                  30
Ala Gln Ser Cys Asp Glu Asn Ala Pro Gln Gly Ala Tyr Val Arg Asp
        35                  40                  45
Phe Leu Leu Ile His Ser Leu Asn Ala Leu Ser Leu Thr
    50                  55                  60
```

<210> 25716
<211> 278
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (205),(206)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25716

```
His Asp Val Arg Gln Val Tyr Gly Met Leu Leu Ala Arg Glu Leu Pro
1               5                   10                  15
Gln Val Asn Val Pro Glu Ser Tyr Leu Pro Leu Asp Leu Asn Ala Ala
            20                  25                  30
Arg Val Asn Ile Glu Lys Ala Ala Tyr His Gly Phe Ala Lys Ala Gln
        35                  40                  45
Val Lys Met Gly Ala Ala Tyr Glu Leu Gly Gln Leu Gly Cys Asp Phe
    50                  55                  60
```

```
Asn Pro Ala Leu Ser Leu His Tyr Asn Ala Leu Ala Ala Arg Gln Gly
65                  70                  75                  80
Glu Pro Glu Ala Glu Met Ala Ile Ser Lys Trp Phe Leu Cys Gly His
                85                  90                  95
Glu Gly Val Phe Glu Lys Asn Asp Glu Leu Ala Phe Lys Phe Ala His
            100                 105                 110
Arg Ala Ala Leu Ser Gly Phe Pro Thr Ala Glu Phe Ala Leu Gly Tyr
        115                 120                 125
Phe Tyr Glu Val Gly Ile Tyr Val Asp Val Asp Leu Lys Glu Ala Arg
    130                 135                 140
Ser Trp Tyr Ala Lys Ala Ala Ala Asn Gly Asn Lys Asp Ala Thr Ser
145                 150                 155                 160
Arg Ile Asp Ser Ile Ser Arg Ser Lys Thr Leu Ser Arg Lys Asp His
                165                 170                 175
Glu Asn Val Ala Ile Ala Arg Ile Lys Ser Arg Tyr Gly Ser His Gln
            180                 185                 190
Arg Glu Ile Ser Leu Glu Ser Thr Gln Glu Asn Leu Xaa Xaa Ala Asp
        195                 200                 205
Pro Ser Arg Met Ser Leu Ser Asp Thr Gly His Ser Ala Ala Pro Tyr
    210                 215                 220
Pro Asp Arg Pro Gly Ser Gly Ser Arg Pro Val Tyr Pro Gln Gly Tyr
225                 230                 235                 240
Ser Met Ala Asp Pro Pro Pro Ser Leu Ala Phe Gly Ile Asn Pro Asn
                245                 250                 255
Ile Arg Ala Asn Ala Pro Asn Tyr Asn Arg Gly Arg Val Leu Arg Pro
            260                 265                 270
Arg Pro Ser Glu Leu Ser
        275
```

<210> 25717
<211> 62
<212> PRT
<213> A.fumigatus

```
<400> 25717
Phe Ala Gln Thr Leu Val Leu Ile Gln Ser Gly Ser Thr Ile Arg Tyr
1               5                   10                  15
Arg Ser Ser Ser Leu Ser His Leu Arg Phe Thr Lys Asp Cys Val Lys
            20                  25                  30
Trp Pro Asn Met Val Ile Gly Ser Ile Arg Leu Ala Leu Tyr Pro Asn
        35                  40                  45
Val Asn Cys Thr Phe Leu Pro Ile Lys Ser Arg Gln Tyr Asn
    50                  55                  60
```

<210> 25718
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

```
<400> 25718
Glu Asp Arg Cys Xaa Arg Gly Val Pro Ser Lys Ala Cys Ile Lys Ile
```

```
1               5                   10                  15
Arg His Val Asp Ile Trp Asn Leu Phe Leu Cys Leu Asp Ser Lys Ile
            20                  25                  30
Ile Asn Tyr Leu Thr Thr Ile Asn Arg Leu Asp Thr Met Ile Phe Lys
        35                  40                  45
Gly Leu Ile Asp Asn Leu Leu Val Lys Gly Phe Leu Leu Tyr Arg Ser
    50                  55                  60
Asn Tyr Leu
65
```

<210> 25719
<211> 388
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (362),(379)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25719

```
Val Pro Lys Asp Thr Tyr Ala Gly Trp Phe Leu Met Cys Thr Met Gln
1               5                   10                  15
Glu Val Lys Thr Asp Ala Gly Gln Asn Leu Ser Glu Tyr Lys Glu Asn
            20                  25                  30
Gln Asp Val Thr Ala Pro Pro Asp Pro Ile Ala Glu Gly Thr Thr Ser
        35                  40                  45
Asp Val Pro Ile His Gly Glu Lys Thr Asn Ile Leu Phe His Pro Thr
    50                  55                  60
Pro Thr Ile Ser Tyr Lys Pro Met Phe Asp Gln Leu Glu Lys Arg Ala
65                  70                  75                  80
Thr Gly Val Cys Leu Gly Ser Leu Cys Trp Cys Thr Leu Pro Arg Pro
                85                  90                  95
Cys Phe Trp Trp Leu Ala Met Gly Val Ser Tyr Pro Trp Pro Val Cys
            100                 105                 110
Thr Thr Thr Gly Ile Trp Leu Trp Met Lys Glu Val Ile Arg Ser Gly
        115                 120                 125
Arg Glu Met Glu Trp Ser Ser Glu Gln Leu Arg Gly Gln Thr Val Ser
    130                 135                 140
Phe Thr Thr Leu Tyr Val Ser Lys Glu His Leu Leu Ser Gln Ala Asn
145                 150                 155                 160
Gln Ala Thr Ala Asn Leu Leu Pro Glu Ser Val Glu Trp Met Asn Thr
                165                 170                 175
Phe Leu Gly Val Val Trp Gly Leu Leu Asn Pro Asp Met Leu Ala Pro
            180                 185                 190
Ile Ala Asp Thr Ile Glu Asp Ile Met Gln Ala Ser Ala Pro Ser Val
        195                 200                 205
Val Glu Asn Val Arg Ile Ala Glu Ile Asp Gln Gly Asn Asn Pro Ile
    210                 215                 220
Arg Ile Leu Ser Met Arg Ala Leu Pro Asp Glu His Val Gln Gln Leu
225                 230                 235                 240
Lys Asp Asn Ile Cys Glu Glu Asn Lys Lys Asn Lys Asp Pro Gln Glu
                245                 250                 255
Ala Ala Ala Ala Glu Glu Gly Gly Ser Tyr Tyr Asn Leu Glu Ala Ser
            260                 265                 270
Phe Ala Tyr His Ala Lys Pro Ser Gly Gln Ser Ala Ser Ser Lys Ala
```

```
        275                 280                 285
Arg Asn Met His Met Gln Val Val Phe Phe Leu Gly Ile Gln Gly Leu
    290                 295                 300
Phe Gly Val Pro Phe Pro Val Phe Val Glu Leu Ile Glu Met Val Gly
305                 310                 315                 320
Thr Ile Arg Leu Arg Leu Gln Met Met Pro Glu Ala Pro Phe Met Lys
                325                 330                 335
Glu Ile Thr Tyr Ser Leu Val Gly Ile Pro His Ile Lys Ala Gly Cys
            340                 345                 350
Met Pro Met Val Arg His Gly Ile Asn Xaa Leu Asn Leu Pro Val Ile
        355                 360                 365
Ser Asn Phe Val Asn Tyr Ala His Arg Thr Xaa Cys Arg Leu Ser Gln
    370                 375                 380
His Pro Asn Gln
385
```

<210> 25720
<211> 559
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (456),(504),(529)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25720

```
Lys Arg Leu Ser Gly Asp Ser Leu Pro Met Ala Gly Ile Gln Lys Gln
1               5                   10                  15
Leu Arg Asn Met Arg Arg Asn Lys Lys Ala Glu Glu Asp Lys Ile Lys
            20                  25                  30
Ala Met Ala Ala Glu Met Glu Ser Glu Glu Glu Arg Lys Leu Lys Ala
        35                  40                  45
Lys Gly Ser Met Thr Pro Lys Ala Ser Ala Gly Ser Gln Ala Pro Ser
    50                  55                  60
Ala Thr Gln Gly Ala Lys Val Asp Asp Gln Leu Trp Thr Thr Lys Tyr
65                  70                  75                  80
Ala Pro Thr Ala Ile Asn Met Ile Cys Gly Asn Lys Gly Ala Val Glu
                85                  90                  95
Lys Leu Gln Thr Trp Leu His Asn Trp His Lys Asn Ala Lys Phe Asn
            100                 105                 110
Phe Ser Arg Pro Gly Lys Asp Gly Ser Gly Val Tyr Arg Ala Val Met
        115                 120                 125
Ile His Gly Pro Pro Gly Ile Gly Lys Thr Thr Ala Ala His Leu Val
    130                 135                 140
Ala Lys Leu Glu Gly Tyr Asp Val Val Glu Thr Asn Ala Ser Asp Thr
145                 150                 155                 160
Arg Ser Lys Lys Leu Val Glu Ser Asn Leu Leu Asp Ile Leu Asp Thr
                165                 170                 175
Thr Ser Leu Gln Gly Tyr Phe Ser Gly Glu Gly Lys Lys Ile Glu Ser
            180                 185                 190
Thr Lys Lys Asn Leu Val Leu Ile Met Asp Glu Val Asp Gly Met Ser
        195                 200                 205
Ala Gly Asp Arg Gly Gly Val Gly Ala Leu Val Ser Leu Ala Lys Lys
    210                 215                 220
Thr His Ile Pro Leu Ile Leu Ile Cys Asn Glu Arg Arg Leu Pro Lys
```

```
225                 230                 235                 240
Met Lys Pro Phe Asp His Val Thr Tyr Glu Leu Pro Phe Arg Arg Pro
                245                 250                 255
Thr Ala Glu Gln Ile Arg Ala Arg Leu Ser Thr Ile Cys Phe Arg Glu
            260                 265                 270
Gly Leu Lys Ile Pro Pro Pro Val Leu Asp Ser Leu Ile Glu Gly Thr
        275                 280                 285
Asn Ala Asp Ile Arg Gln Val Ile Asn Met Leu Ser Thr Val Lys Leu
    290                 295                 300
Asp Gln Gln Gln Leu Asp Phe Asp Thr Gly Lys Glu Met Ser Lys Ala
305                 310                 315                 320
Trp Gln Lys His Val Ile Leu Lys Pro Trp Asp Ile Val Ser Lys Ile
                325                 330                 335
Leu Asn Ala Gln Thr Phe Ser Pro Asn Ser Gln Thr Thr Leu Gly Asp
            340                 345                 350
Lys Ile Glu Leu Tyr Phe Asn Asp His Glu Phe Ser Tyr Leu Met Leu
        355                 360                 365
Gln Glu Asn Tyr Leu Arg Thr Arg Pro Ala Leu Ala Gly Asn Tyr Gln
    370                 375                 380
Gly Lys Glu Gln Lys Leu Lys Leu Leu Glu Leu Ala Asp Asn Ala Ala
385                 390                 395                 400
Ser Ser Ile Ser Asp Gly Asp Leu Val Asp Arg Met Ile His Gly Thr
                405                 410                 415
Gln Gln Gln Trp Ser Leu Met Pro Thr His Ala Val Phe Ser Phe Val
            420                 425                 430
Arg Pro Ala Ser Phe Ile Tyr Gly Asn Met Val Glu Arg Pro Gly Phe
        435                 440                 445
Thr Ser Trp Leu Gly Gln Asn Xaa Lys Gln Gly Met Ser Pro Trp Cys
    450                 455                 460
Ser Ile Cys Val Ser Asn Ile Asn Met Ala Cys Ala Gly Lys Leu Trp
465                 470                 475                 480
Arg Tyr Val Lys Glu Ile Gln Gly His Met Arg Leu Arg Ala Ser Gly
                485                 490                 495
Asp Arg Asp Glu Ile Arg Gln Xaa Tyr Ile Pro Leu Leu Trp Asn Lys
            500                 505                 510
Leu Val Arg Lys Leu Met Asp Glu Gly Lys Glu Ser Val Glu Asp Val
        515                 520                 525
Xaa Gly Leu His Gly Thr Val Ile Ser Ser Arg Ala Asp Asp Trp Asp
    530                 535                 540
Ala Leu Val Glu Leu Gly Leu Gly Pro Met Glu Glu Phe Asn Val
545                 550                 555
```

<210> 25721
<211> 223
<212> PRT
<213> A.fumigatus

<400> 25721

```
Arg Arg Met Arg Trp Gly Arg Trp Asp Val Val Leu Phe Leu Ser Gly
1               5                   10                  15
Met Leu Met Ala Glu Ala Asp Leu Ile Asn Gly Thr Trp Glu Arg Pro
            20                  25                  30
Ser Val Tyr Glu Lys Pro Val His Arg Gly Arg Ser Thr Leu Ser Arg
        35                  40                  45
Leu Ser Ser Arg Lys Phe Trp Ile Ala Leu Phe Ile Phe Gly Leu Tyr
    50                  55                  60
```

```
Leu Gly Ser Ala Pro Asn Thr Gly Tyr Lys Trp Thr Pro Phe Tyr Met
65                  70                  75                  80
Trp Thr Trp Lys Ile Thr Pro Lys Thr Tyr Pro Glu Pro His Arg Phe
                85                  90                  95
Pro Gln Thr Leu Gly Ala Val Leu Ile Val Phe Ser Ile Asn His Ser
            100                 105                 110
Lys Asp Ile Gln Lys Leu Phe Val Asn Arg Leu Ser Gln Tyr Leu Gly
        115                 120                 125
Lys Ile Ser Phe Ala Phe Tyr Ile Val His Gly Pro Ile Leu His Ser
    130                 135                 140
Leu Gly Tyr Ser Leu Met Pro Asn Ile Trp Lys Ile Thr Gly Lys Gln
145                 150                 155                 160
Thr Asp Phe Gln Tyr Cys Leu Gly Phe Leu Ile Gly Trp Leu Ile Cys
                165                 170                 175
Leu Pro Val Ser Leu Trp Ala Gly Asp Val Phe Trp Arg Ala Val Asp
            180                 185                 190
Ile Pro Ser Val Lys Phe Ala Arg Trp Val Glu Asp Lys Val Leu Val
        195                 200                 205
Lys Met Thr Gly Gln Gln Asn Ser Thr Pro Asn Ala His Ile Arg
    210                 215                 220
```

<210> 25722
<211> 82
<212> PRT
<213> A.fumigatus

<400> 25722

```
Arg Gln Arg Glu Ile Gly Ala Gln Pro Ile Ser Lys Pro Leu Arg Gln
1               5                   10                  15
Glu Gln Gln Gly Leu Thr Tyr Ala Ser Gln Ile Ser Arg Lys Gln Leu
            20                  25                  30
His Arg Phe Glu Pro Trp Pro Ser Asp Tyr Thr Ile Lys His Val Leu
        35                  40                  45
Arg Asn Asn Arg Ser Gly Ile Leu Ile Ala Ser Glu Phe Lys Pro Arg
    50                  55                  60
Pro Arg Thr Phe Val Pro Gly Ala Asp Cys Phe Gln Arg Trp Pro Pro
65                  70                  75                  80
Trp Trp
```

<210> 25723
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25723

```
Gln Thr Val Gln Ala Ser Glu Ile Thr Asp Ala Asn Pro Trp Leu Trp
1               5                   10                  15
Met Thr Gly Trp Ala Asn Tyr Leu Gln Gly Ile Ser Glu Gln Asn Leu
            20                  25                  30
Leu Asp Cys Val Glu Thr Pro Asn Lys Glu Pro Met Asp Ala Thr Glu
        35                  40                  45
Gln Cys Val Gln Val Ile Trp Val Thr Met Glu Gln Leu Ala Cys
    50                  55                  60
```

<210> 25724

<211> 79
<212> PRT
<213> A.fumigatus

<400> 25724
Leu Ser Phe Asn His Ile Asn Lys Leu Asn Phe Leu Lys Ala Tyr Pro
1 5 10 15
Lys Ala Tyr Thr Ala Ile Phe Leu Leu Asp Asn Ile Lys Ser Ser Phe
20 25 30
Ser Val Thr Arg Leu Ile Leu Leu Asn Leu Glu Gln Val Leu Ser Gln
35 40 45
Leu Asn Ile Gln Leu Lys Thr Pro Ile Pro Pro Gly Ser Gln Ser Thr
50 55 60
Asp Ser Ile Leu Lys Thr Pro Tyr Asn Leu Lys Gln Leu Lys Lys
65 70 75

<210> 25725
<211> 75
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(34),(69)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25725
Gln Gly Arg Pro Pro Ser Thr Ala Pro Asn Pro Met Glu Xaa Ser Asp
1 5 10 15
Asp Asp Pro Thr Asp Glu Ala Trp Ala Met Thr Asp Ile Lys Lys His
20 25 30
Ala Xaa Ser Phe Met Leu Ser Cys Leu Thr Asn Ala Ile Ala Thr Leu
35 40 45
Asn Thr Arg Val His Leu Cys Ala Pro Trp Leu Cys Leu Ala Arg Gly
50 55 60
Asn Thr Ala Gly Xaa Thr Pro Arg Val Ile Leu
65 70 75

<210> 25726
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25726
Asn Met Ile Ile Leu Leu Asn Leu Val Ile Leu Ala Leu Arg Thr Leu
1 5 10 15
Gln Leu Leu Met Ala Tyr Asn Met Thr Val Thr Ala Ala Arg Gly Cys
20 25 30
Leu Leu Arg Val Leu Phe Cys Ile Tyr Cys Leu Asp Ser Phe Val Ser
35 40 45
Leu Ile Pro Leu Leu Asn Lys Leu Leu Ala Phe Leu Asp Arg Glu Ser
50 55 60
Leu Cys Ser Phe Tyr Leu Pro Pro Arg Leu Leu Pro Ile Leu Lys Leu
65 70 75 80
Leu Leu Met Cys Ser Met
85

<210> 25727
<211> 125
<212> PRT
<213> A.fumigatus

<400> 25727
Thr Leu Glu Ser Asp His Phe Val Cys Val Arg Gln Lys Leu Asn Glu
1 5 10 15
Asp Asp Lys Pro Gln Val Ile Ile Val Asn Leu Lys Asn Asn Asn Glu
20 25 30
Thr Ile Lys Arg Pro Ile Asn Ala Asp Ser Ala Ile Met His Trp Ser
35 40 45
Arg Asn Ile Ile Ala Leu Arg Ala Gln Gly Arg Thr Ile Gln Ile Phe
50 55 60
Asp Leu Ser Ala Lys Gln Lys Leu Lys Ser Ala Val Met Asn Glu Asp
65 70 75 80
Val Val Tyr Trp Lys Trp Phe Ser Glu Thr Ser Leu Gly Leu Val Thr
85 90 95
Asp Ala Ser Val Tyr His Trp Asp Val Phe Asp Pro Thr Gln Asn Gln
100 105 110
Pro Leu Lys Ile Phe Asp Arg Leu Pro Asn Leu Ser Val
115 120 125

<210> 25728
<211> 190
<212> PRT
<213> A.fumigatus

<400> 25728
Gly Ala Val Gly Cys Gln Val Phe Glu Arg Leu Pro Trp Asp Phe Trp
1 5 10 15
Gly Arg Thr Gly Pro Gly Asp Val Arg Gly Val Leu Thr Thr Val Ala
20 25 30
Ser Gly Leu Leu Tyr Thr Leu Asp Leu Asp Ser Gly Ala Asn Ala Trp
35 40 45
Ile Gly Tyr Gln Ala Met Ala Gly Ile Gly Ile Gly Leu Ala Ile Gln
50 55 60
Val Pro Met Met Ala Ser Gln Ala Val Val Arg Val Glu Asp Leu Ser
65 70 75 80
Thr Val Ser Ala Ile Val Leu Phe Phe Gln Cys Met Gly Gly Ala Ile
85 90 95
Phe Val Gln Ala Gly Gln Ala Ala Phe Thr Asn Lys Leu Val Gln Glu
100 105 110
Val Gln Arg His Leu Pro Asn Ile Ser Ala Ala Arg Val Thr Ser Thr
115 120 125
Gly Ala Thr Glu Leu Gln Ser Glu Phe His Gly His Glu Leu Gln Val
130 135 140
Ile Leu Glu Ala Tyr Val Ala Gly Leu Lys Asp Ala Phe Ile Val Ala
145 150 155 160
Ile Val Leu Ala Gly Ile Ala Thr Leu Leu Ser Phe Gly Ser Gly Trp
165 170 175
Arg Ser Val Lys Ser Lys Lys Glu Glu Pro Lys Ala Gln Pro
180 185 190

<210> 25729

<211> 117
<212> PRT
<213> A.fumigatus

<400> 25729
Ser Cys Arg Ala Glu Leu Pro Asp Val Phe Glu Ala Thr Pro Ser Val
1 5 10 15
Leu Gln Ser Arg Arg Ala Ala Val Leu Ser Ala Thr Pro Ser Val Ser
20 25 30
Phe Leu Val Arg Tyr Asp Tyr Arg Ile Ser Met Cys Ser Ser Arg Leu
35 40 45
Ile Lys Ser Glu Met Arg Ile Ser Gln Ser Arg Lys Met Tyr Gly His
50 55 60
Cys Lys Thr Phe Ser Arg Cys Lys Gln Ser Ile Met Ala Gln Asp Ser
65 70 75 80
Thr Leu His Gly Ile Tyr Asp Leu Ala Thr Lys Val Ser Pro Leu Leu
85 90 95
Ala Phe Ser Glu Leu Ile Phe Thr Val Phe Ala Leu Leu Arg Lys Leu
100 105 110
Leu Gly His Asp Arg
115

<210> 25730
<211> 360
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (143)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25730
Thr Arg Tyr Phe His Pro Val Val Lys Ile Gly Ser Leu Gly Met Leu
1 5 10 15
Ile Met Asp Tyr Leu Gln Val Ser Arg Gln Ala Ser Glu Gly Arg Arg
20 25 30
Ala Ala Arg Leu Ser Arg Gly Leu Ser Tyr Phe Val Lys Gly Ser Ser
35 40 45
Ser Phe Val Asp Ser Gln Pro Ser Cys Ser Gly Ser Ser Ala Pro Thr
50 55 60
Leu Ser Thr Pro Ala Ser Ser Ala Met Arg Ala Asn His Leu Ser Ala
65 70 75 80
Gly Ser Ser His Ser Phe Glu Leu Pro Ser Lys Arg Ser His Ser Ile
85 90 95
Asp Ala Arg Ser Ser Ser Ser Val Ser Asp Ser Lys Ala Asp Asn Gly
100 105 110
Asp Gln Asn Asn Ser Ser Gly Pro Asp Thr Pro Leu Pro Asp Trp Trp
115 120 125
Ala Gly Ser Arg Arg Lys Gly Leu Lys Leu Asp Glu Ser His Xaa Ser
130 135 140
Ser Trp Ala Tyr Arg Arg Ala Ala Asn Leu Leu Arg Glu Ser Leu Glu
145 150 155 160
Leu Asp Ala Asp Gly Gly Val Ile Phe Leu Glu Val Thr Asn Ser His
165 170 175
Met Leu Asp Phe Glu Thr Gly Ser Asp Cys Ser Gly Glu Asn Gly Pro

```
            180                 185                 190
Ala Ala Pro Val Leu Ala Val Ser Thr Arg Asp Glu Pro Phe Ala Pro
        195                 200                 205
Trp Pro Gly Ser Thr Val Leu Tyr Pro Ala Ala Asn Leu Asp Ser Gly
    210                 215                 220
Phe Leu His Gln Leu Leu Arg Arg Tyr Thr Lys Gly Lys Leu Trp Ser
225                 230                 235                 240
Phe His Arg Asp Gly Ile Leu Ser Ser Ser Asp Asp Glu Lys Pro Asn
                245                 250                 255
Gly Asn Arg Ser Met Lys Pro Ala Glu Pro Pro Arg Gly Ser Gly Lys
            260                 265                 270
Lys Trp Lys Gln Thr Glu Asn Ala Met Leu Asn Leu Phe Phe Pro Asn
        275                 280                 285
Ala Thr Gln Val Met Phe Val Pro Leu Trp Asn Ala Ala Asn Ser Gln
    290                 295                 300
Trp Phe Ala Gly Cys Phe Cys Trp Asn Thr Val Glu Thr Arg Val Phe
305                 310                 315                 320
Ser Pro Ser Val Glu Leu Ser Ser Val Leu Gly Phe Gly Ser Ser Ile
                325                 330                 335
Met Ala Glu Cys Asn Arg Val Gln Ser Leu Ile Ser Asp Arg Gln Lys
            340                 345                 350
Gly Asp Phe Ile Gly Ser Ile Ser
        355                 360
```

<210> 25731
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25731

```
Val Leu Glu Thr Glu Lys Ala Ser Leu Val His Arg Pro Val Ile Asp
1               5                   10                  15
Ile Ile Gly Tyr Arg His Glu Leu Arg Ser Pro Leu His Gly Ile Leu
            20                  25                  30
Ala Ala Thr Glu Phe Leu His Ser Thr Asp Leu Asp Glu Phe Gln Leu
        35                  40                  45
Ser Leu Leu Glu Thr Ile Asn Ala Cys Gly Arg Thr Leu Leu Asp Thr
    50                  55                  60
Met Asn Gln Val Leu Asp Phe Ser Lys Ile Ile Ser Leu Glu Arg Thr
65                  70                  75                  80
Trp Arg Gln Leu Lys Arg His Thr Leu His Leu Gly Thr Gly Arg Gly
                85                  90                  95
Arg Ala
```

<210> 25732
<211> 320
<212> PRT
<213> A.fumigatus

<400> 25732

```
Arg Trp Asp Lys Cys Trp Arg Glu Pro Asn Gly Tyr Gly Leu Ala Asn
1               5                   10                  15
Leu Pro Glu Gly Arg Arg Val Pro Gly Leu Glu Glu Leu Ile Ile Gln
            20                  25                  30
Leu Glu Ala Lys Pro Gly Gly Phe Ser Phe Thr Glu Gln Pro Ala Thr
```

```
        35                  40                  45
Lys Phe Thr Ser Gly Leu Thr Lys Arg Asn Trp Glu Glu Ala Gly Asp
    50                  55                  60
Pro Leu Ala Thr Thr Gly Met Ser Phe Lys Arg Lys Leu Ala Gly Asp
65                  70                  75                  80
Cys Ala Arg Val Glu Gly Cys Val His Arg Ser Arg Ala Asp Arg Arg
                85                  90                  95
Lys Gln Glu Glu Ile Phe Ser Ser Ser Tyr Ser Ala Ser Ile Tyr Ile
            100                 105                 110
Ser Arg Ile Leu Lys Leu Pro Glu Asn Lys Arg Lys Val Phe Val Ile
        115                 120                 125
Gly Glu Thr Gly Ile Glu Gln Glu Leu Gln Thr Glu Asn Val Pro Phe
    130                 135                 140
Ile Gly Gly Thr Asp Pro Ala Tyr Arg Arg Glu Val Arg Pro Asp Asp
145                 150                 155                 160
Tyr Lys Leu Ile Ala Ala Gly Asp Pro Ser Leu Leu Asp Pro Glu Val
                165                 170                 175
Gly Val Val Leu Val Gly Leu Asp Phe His Leu Asn Tyr Leu Lys Leu
            180                 185                 190
Ala Leu Ala Tyr His Tyr Ile Lys Arg Gly Ala Val Phe Leu Ala Thr
        195                 200                 205
Asn Ile Asp Ser Thr Leu Pro Asn Ser Gly Ala Leu Phe Pro Gly Ala
    210                 215                 220
Gly Ser Met Ser Ala Pro Leu Ile Met Met Leu Gly Glu Glu Pro Val
225                 230                 235                 240
Ser Leu Gly Lys Pro Asn Gln Ala Met Met Asp Ala Ile Glu Gly Lys
                245                 250                 255
Phe Lys Phe Asp Arg Ser Arg Thr Cys Met Val Gly Asp Arg Ala Asn
            260                 265                 270
Thr Asp Ile Arg Phe Gly Leu Glu Gly Lys Leu Gly Gly Thr Leu Gly
        275                 280                 285
Val Leu Thr Gly Val Ser Ser Lys Asp Asp Phe Leu Thr Gly Pro Ile
    290                 295                 300
Arg Pro Ser Val Tyr Leu Asp Lys Leu Ser Asp Leu Leu Glu Ala Lys
305                 310                 315                 320
```

<210> 25733
<211> 199
<212> PRT
<213> A.fumigatus

<400> 25733

```
Ser Glu Lys Arg Arg Val Arg Pro Leu Ile Cys Lys Val Pro Val Ser
1               5                   10                  15
Gln Asn His Ser Arg Pro Gly Lys Asn Cys Gly Phe Leu Pro Ala Gly
            20                  25                  30
Gly Thr Ser Thr Ser Ser Thr Glu His Phe Ala Arg Glu Glu Thr Ala
        35                  40                  45
Ala Met Ala Ser Val Ala Trp Ser Ala Met Arg Gln Pro Leu Pro Leu
    50                  55                  60
Leu Leu Gln Thr Phe Gln Gly Leu Thr Thr Lys Asn Glu Asp Phe Trp
65                  70                  75                  80
Phe Arg Ala Cys Pro Tyr Phe Gly Arg Val Cys Tyr Ala Ala Gly Thr
                85                  90                  95
Val Leu Phe Gln Glu Gly Asp Leu Pro Asp Gly Phe Tyr Leu Leu Glu
            100                 105                 110
```

```
Ser Gly Met Leu Arg Ala Glu Tyr Glu Leu Pro Gln Gly Arg Tyr Phe
        115                 120                 125
Glu Leu Ile Val Gly Gly Arg Pro Cys Gly Glu Leu Pro Phe Phe Ser
    130                 135                 140
Glu Thr Arg Arg Thr Ala Thr Val Lys Ala Glu Gln Asp Cys Val Thr
145                 150                 155                 160
Trp Cys Leu Asn Ala Asp Lys Trp Lys Gln Leu Arg Glu Glu Glu Pro
                165                 170                 175
Glu Ile Ala Gln Glu Leu Leu Thr Val Ser Leu Lys Leu Thr Ser Glu
            180                 185                 190
Arg Met Asp Ser Ile Thr Ser
        195
```

<210> 25734
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25734

```
Ala Thr Met Phe Ala Thr Ser Arg Ser Gln Val Ser Gly Pro Asn Leu
1               5                   10                  15
Gly Lys Leu Met Lys Ala Thr Lys Met Ala His Leu Cys Glu Ala Leu
            20                  25                  30
Ser Gly Cys Cys Met Asn Thr Asn Ile Ile Lys Thr Val Leu Leu Pro
        35                  40                  45
Asp Met Tyr Leu Cys Ile Tyr Tyr Ser Ser Ile Ala Ser Ser Glu Pro
    50                  55                  60
Val Tyr Ala Ala Lys Pro Gly
65                  70
```

<210> 25735
<211> 291
<212> PRT
<213> A.fumigatus

<400> 25735

```
Leu Arg Asp Val Ala Asn Ile Val Ala Tyr Val Ser Leu Ser Leu Leu
1               5                   10                  15
Val Asn Val Glu Cys Pro Val Thr Met Glu Ser Ile Pro Leu Ser Pro
            20                  25                  30
Phe Asp Leu Gln Gly Ser Phe Ser Asn Ile Pro Tyr Ala Phe Phe Tyr
        35                  40                  45
Glu Asn Thr Gln Cys Glu Asn Asp Phe Met Pro Phe Asp Phe Leu Lys
    50                  55                  60
Gly Ser Leu Trp Ala Ser Leu Gln Arg Phe Pro Ile Leu Thr Gly Arg
65                  70                  75                  80
Leu Arg Ala Arg Ser Thr Gly His Ile Val Val Glu Val Asp Ala Gly
                85                  90                  95
Asn Pro Asn Gln Pro Asp Ile Arg Glu Thr Leu Cys Asp Ser Val His
            100                 105                 110
Trp Ser Gln Leu Lys Glu Ser Ser Phe Ala Trp Asp Ala Trp Pro Ala
        115                 120                 125
Gly Val Ala Thr Val Gly Pro Val Ala Thr Ala Ala Ala Asp Gly Glu
    130                 135                 140
Ile Lys Leu Leu Asn Ile His Val Met Arg Leu Ala Gln Asn Ser Gly
145                 150                 155                 160
```

```
Val Ile Leu Phe Ile Asn Ile Pro His Tyr Val Val Asp Gly Val Gly
                165                 170                 175
Tyr Phe Ala Phe Ile Asn His Trp Ala Glu Thr Met Arg Met Gln Gln
            180                 185                 190
Gln Gln Gln Glu Gln Glu Asn Glu Ala Arg Ser Arg Phe Ser Phe Asp
        195                 200                 205
Arg Gly Ile Ile Gln Arg Tyr Leu Pro Thr Glu Arg Ala Pro Leu Asp
    210                 215                 220
Pro Leu Thr Ala Ser Ile Tyr Gly Gln Arg Asn Leu Leu Val Asp Trp
225                 230                 235                 240
Leu Ala Trp Leu Ser Pro Thr Thr Leu Gly Gly Leu Leu Ser Lys Thr
                245                 250                 255
Ala Ala Met Ala Arg Gly Glu Ala His Leu Phe Arg Ile Pro Arg Ala
            260                 265                 270
Ser Leu Asp Gln Gly Leu His His Gly Ala Glu Arg Ile His Gly Gly
        275                 280                 285
Leu Leu Lys
    290
```

<210> 25736
<211> 88
<212> PRT
<213> A.fumigatus

<400> 25736

```
Thr Val Arg Ile Asp Gln Thr Leu Met Pro Pro Leu Trp Leu Arg Asp
1               5                   10                  15
Phe Ser Gly Leu Asp Ser Tyr Tyr Phe Ile Gln Cys His Tyr His Ala
            20                  25                  30
Glu Leu Asn Ser Arg Gln Pro Pro Lys Ala Thr Val Pro Val Ser Ala
        35                  40                  45
Ser Gln His Phe Tyr Ile Met Ala Gln Arg Ala Leu Ile Arg Gln Ser
    50                  55                  60
Lys Lys Ser Trp Leu Pro Gly Leu Leu Arg Thr His Arg Ala Ile Gly
65                  70                  75                  80
Gln Met Leu Asn Tyr Gly Tyr Asn
                85
```

<210> 25737
<211> 281
<212> PRT
<213> A.fumigatus

<400> 25737

```
Leu Ile Val Ala Cys Pro Asn Tyr Pro Arg Lys Ala Gln Arg Ser Pro
1               5                   10                  15
Ile Phe Asp Ser Arg Trp Lys Gly Leu Ala Val Arg Ser Thr Phe Leu
            20                  25                  30
Gln Thr Ala Pro Asp Pro Ser Ala Tyr Asp Val Phe Arg Cys Pro Phe
        35                  40                  45
Pro Arg Cys Asn Ala Arg Tyr Arg Arg Lys Glu His Leu Asn Arg His
    50                  55                  60
Glu Arg Ser Lys His Ile Asn Gln Gln Ala Phe Val Cys Ser Arg Cys
65                  70                  75                  80
Gly Arg Lys Phe Gln Arg Arg Tyr Leu His Ala Tyr Ala His Pro Leu
                85                  90                  95
```

```
Ile Thr Thr Asn Pro Leu Thr Leu Asp Val Lys Ile Ser Asp Thr Leu
            100                 105                 110
Arg Arg His Val Gln Lys Gln His Lys Ile Thr Glu Pro Leu Asn Arg
        115                 120                 125
Ala Arg Arg Ala Cys Ala Gly Cys Gln Ala Gly Lys Ser Arg Cys Glu
    130                 135                 140
Gly Gly Val Pro Cys Glu Glu Cys Val Arg Arg Asn Ile His Cys Ser
145                 150                 155                 160
Leu Gln Asp Arg Pro Ser Ile Ala Glu Asp Gln Gln Thr Arg Ser Ser
                165                 170                 175
Thr Ala Pro Ser Ser Ser Leu His Arg Glu His Ser Gln Leu Tyr Trp
            180                 185                 190
Asp Lys Thr Lys Lys Trp Val Asp Arg Tyr Phe Asp Ile Phe His Arg
        195                 200                 205
Arg Trp Pro Phe Ile His Arg Gly Ser Phe Asn Val Arg Arg Glu Thr
    210                 215                 220
Pro Leu Leu Leu Gln Ser Met Ile Val Ile Gly Met Trp Thr Ser Gly
225                 230                 235                 240
Glu Gln Ser Ala Gln Ser Ala Ala Val Glu Leu Tyr Asp Gln Leu Asp
                245                 250                 255
Ser Ala Ile Gln Asp Gln Arg Val Cys Leu Glu His Gln Ser Met Met
            260                 265                 270
Phe Leu Ile Tyr Ser Cys Ser Glu Ser
        275                 280
```

<210> 25738
<211> 87
<212> PRT
<213> A.fumigatus

<400> 25738

```
Leu Val Ile Met Ala His Arg Ser Thr Arg Leu Met Ile Pro Arg Met
1               5                   10                  15
Leu Thr Glu Val Lys Thr Ala Ala Gly Arg Pro Pro Ala Ser His Gln
            20                  25                  30
Thr Asn Tyr Asp Ile Tyr Asn Leu Tyr Met Asn Ala Pro Phe Pro Val
        35                  40                  45
Thr Phe Ala Ser Arg Tyr Cys Glu Lys Ser Pro Ala Leu Ile Asn His
    50                  55                  60
Cys Val Ala Leu Gln Thr Leu Cys Ala Ile Ile Ser Ile Ser Asp Val
65                  70                  75                  80
Ser Gln Ile Ser Leu Ser Ala
                85
```

<210> 25739
<211> 330
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25739

```
Ile His Xaa Tyr Thr Leu Trp Asp Tyr Phe Ala Ser Ile Phe Thr Asn
```

```
1               5                   10                  15
Asn Ala Lys Lys Trp Arg Asp Leu Gly Lys Gln Leu Glu Leu His Ala
            20                  25                  30
Thr Leu Phe Phe Trp Trp Leu Gly Val Glu Asn Ser Phe Leu Pro Thr
        35                  40                  45
Met Lys Asn His His Val Asp Gly Asn Ser Ala Thr Arg Arg Trp Glu
    50                  55                  60
Asn Ser Val Asn Lys Ile Ile Ile Ser Ile Phe Val Trp Thr Ile Leu
65                  70                  75                  80
Asn Leu Ile Glu Lys Ile Ile Ile Gln Leu Ile Ala Ile Ser Phe His
                85                  90                  95
Leu Arg Thr Tyr Ala Asp Arg Ile Glu Ile Asn Lys Phe Gln Ile Gly
            100                 105                 110
Ser Leu Thr Lys Leu Tyr Ala Phe Ser Lys Ala Lys Ile Glu Ala Asp
        115                 120                 125
Asp Asp Glu Phe Glu Glu Lys Asn Asp Gln Ser Gly Ser Gly Thr Lys
    130                 135                 140
Thr Pro Leu Arg Val Pro Met Gln Tyr Ala Gly Lys Ala Gln Arg Ile
145                 150                 155                 160
Ala Lys Gly Ala Leu Asn Lys Val Thr Asp Val Ala Gly Ala Val Ala
                165                 170                 175
Ala Asp Phe Thr Gly Arg Lys Ala Thr Ser Ser Ser His Pro Tyr Gln
            180                 185                 190
Val Val Leu Thr Leu Leu Arg Thr Thr Thr Gly Cys Gln Val Leu Ala
        195                 200                 205
Arg Arg Leu Tyr Arg Thr Phe Val Arg Asp Gly Phe Glu Thr Val Phe
    210                 215                 220
Ser Gly Asp Leu Lys Glu Ala Phe Asp Asn Asn Glu Glu Ala Glu Ala
225                 230                 235                 240
Ala Phe Thr Met Phe Asp Lys Asp Met Asn Gly Asp Ile Ser Met Glu
                245                 250                 255
Glu Leu Glu Ala Val Cys Val Glu Ile Gly Arg Glu Arg Lys Ser Ile
            260                 265                 270
Thr Ala Ser Leu Lys Asp Leu Asp Ser Val Val Ser Arg Leu Asp Asn
        275                 280                 285
Val Leu Glu Phe Phe Val Ile Val Ile Ala Leu Ile Val Phe Leu Ser
    290                 295                 300
Leu Ile Ser Thr Ser Ala Ala Gly Val Leu Thr Ser Ala Gly Ser Ser
305                 310                 315                 320
Ile Leu Ala Leu Ser Trp Leu Phe Ser Ala
                325                 330
```

<210> 25740
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25740

```
Trp Asp Leu Thr Met Thr Asn Val Val Gln Thr Thr Val Asn Leu Lys
1               5                   10                  15
Lys Val Glu Leu Pro Val Lys Gln Ile Val Ser Gly Lys Lys Ile Lys
            20                  25                  30
Pro Ser Gly Thr Leu Leu Asn Pro Gln Ser Leu Asp Tyr Tyr Tyr Gln
        35                  40                  45
Phe Ala Glu Val Glu Lys Leu Val Asn Pro Arg Ser Lys Leu
    50                  55                  60
```

<210> 25741
<211> 69
<212> PRT
<213> A.fumigatus

<400> 25741
His Tyr His Pro Lys Asp Thr Ile Ser Ala Ala Met Lys Thr Thr Met
1 5 10 15
Leu Thr Gly Ala Val Gly Leu Phe Ala Ser Ala Val Gln Asn Thr Leu
20 25 30
Thr Arg Lys Asn Val Gly Pro Trp Gly Val Phe Val Arg Ser Gly Gly
35 40 45
Thr Ile Gly Val Phe Gly Thr Asp Ala His Leu Ile Asp Gln Leu Val
50 55 60
Tyr Gly Ile Phe Phe
65

<210> 25742
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25742
Ile Asn Trp Ser Thr Glu Ser Phe Ser Asp Ser Cys Ser Pro Ala Ala
1 5 10 15
Met Gly Gly Thr Tyr Glu Phe Val Lys Asn Ala Ser Ala Asn Leu Arg
20 25 30
Glu Lys Asp Asp His Tyr Asn Val Ala Leu Gly Gly Phe Phe Ser Gly
35 40 45
Ala Ile Leu Gly Leu Arg Gly Leu Leu Tyr Phe Leu Gly Ile Arg Thr
50 55 60
Tyr Gly Asn Cys
65

<210> 25743
<211> 122
<212> PRT
<213> A.fumigatus

<400> 25743
Phe Trp Ala Leu Ala Arg Thr Phe Pro Ala Leu Leu Gly Tyr Gly Ala
1 5 10 15
Ala Leu Ala Thr Ala Met Gly Ala Phe Glu Phe Thr Gly Gly Thr Leu
20 25 30
Trp Gly Lys Lys Ala Gln Ser Asp Leu Asp Glu Phe Asp Arg Arg Thr
35 40 45
Gln Val Arg Lys Ala Tyr Arg Thr Pro Ala Glu Gln Thr Phe Ala Glu
50 55 60
Leu Gly Glu Gly Arg Gly Val Leu Leu Ser Lys Leu Ser Gly His Arg
65 70 75 80
Ser Tyr Gly Gly Phe Thr Lys Leu Phe Ala Leu Gly Ile Tyr Gly Pro
85 90 95
Gly Tyr Ala Glu Arg Arg Ala Glu Arg Leu Lys Glu Thr Tyr Gly Ile
100 105 110
Glu Val Pro Thr Ser Ala Ala Pro Ala Ser

115 120

<210> 25744
<211> 134
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (81)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25744
Arg Ala Arg Leu Thr Pro Ser Leu Leu Cys Leu Ser Pro Phe Glu Arg
1 5 10 15
Pro Thr Leu Pro Pro Ala Pro Pro Thr Pro Pro Ser Ala Pro Leu Asp
20 25 30
Pro Pro Gln Leu Pro Thr Leu Pro Pro Pro Pro Pro Ser Pro Pro Arg
35 40 45
Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Ala Pro Pro Pro Pro
50 55 60
Pro Ala Arg Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Pro Pro
65 70 75 80
Xaa Tyr Phe Pro Pro Lys Thr Val Lys Gly Tyr Pro Pro Arg Pro Pro
85 90 95
Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro
100 105 110
Pro Pro Pro Pro Pro Pro Pro Ser Pro Pro Pro Pro Pro Pro Pro Pro
115 120 125
Pro Pro Pro Pro Pro Pro
130

<210> 25745
<211> 169
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (54)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25745
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
1 5 10 15
Gly Gly Gly Gly Gly Gly Arg Gly Gly Gly Glu Gly Gly Gly Gly Gly
20 25 30
Gly Gly Gly Gly Gly Gly Gly Gly Ala Gly Gly Ile Thr Phe Asp Ser
35 40 45
Phe Arg Arg Glu Ile Xaa Gly Gly Gly Gly Gly Gly Arg Glu Gly Gly
50 55 60
Trp Gly Gly Ala Ser Arg Gly Gly Gly Gly Gly Gly Gly Gly Arg Gly
65 70 75 80
Gly Gly Gly Gly Gly Arg Pro Gly Gly Gly Gly Gly Gly Gly Gly Glu
85 90 95
Gly Gly Glu Leu Trp Gly Val Glu Trp Gly Gly Gly Gly Cys Gly Gly

```
            100                 105                 110
Gly Gly Gly Glu Gly Gly Ser Phe Glu Arg Gly Lys Ala Gln Lys Thr
        115                 120                 125
Arg Cys Gln Pro Cys Ser Ser Leu Ala Cys Gly Cys Cys Lys Asn Ile
    130                 135                 140
Val Tyr Ile Arg His Lys Asn Asp Arg Gln Val Arg Lys Leu Lys Ala
145                 150                 155                 160
Thr His Ile Leu Ser Ser Arg Val Ile
                165
```

<210> 25746
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25746

```
His Ser Pro Ser Gly Ser Asn Leu Ser Ile Trp Ile Ser Asp Ala Ser
1               5                   10                  15
Lys Pro Pro Asp Pro His Asp Ala Asp Gly Glu Met Ala Glu Phe Thr
            20                  25                  30
Pro Gly Gly Gly Ser Ser Ser Gly Val Ser His Leu Glu Cys His Ile
        35                  40                  45
Leu Leu Gly Gly Ser Thr Ala Phe Arg Lys Arg Arg Arg His Val
    50                  55                  60
```

<210> 25747
<211> 323
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (319)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25747

```
Gly Asp Gln Ala Glu Ala Ser Ala Pro Asp Val Asn Cys Val Asp Arg
1               5                   10                  15
Gln Lys Glu Ser Lys Gln Phe Val Arg Arg Gly Val Arg Ile Leu Lys
            20                  25                  30
Glu Trp Phe Arg Asp His Arg Asp Phe Pro Tyr Pro Ser Glu Asp Glu
        35                  40                  45
Lys Ala Arg Leu Val Arg Glu Thr Gly Phe Ser Arg Lys Arg Met Ser
    50                  55                  60
Thr Trp Phe Ala Asn Ala Arg Arg Arg Gln Lys Glu Arg Phe Asp Thr
65                  70                  75                  80
Pro Pro Ala Ala Gln Ile Cys Arg Ser Gly Ser Pro Met Pro Ala Ser
                85                  90                  95
Arg Leu Thr Leu Met Thr Pro Met Glu Arg Trp Gln Asn Ser Pro Pro
            100                 105                 110
Glu Glu Glu Ala Val Pro Glu Ser Ala Ile Leu Asn Ala Ile Ser Ser
        115                 120                 125
Trp Glu Val Ala Pro Arg Ser Glu Asn Glu Asp Ala Met Phe Asp Ser
    130                 135                 140
Phe Leu Asn Leu Asp Glu Thr Ser Ser His Leu Gly Ser Ser Leu Ser
145                 150                 155                 160
```

```
Ser Met Gly Ser Arg Arg Ser Glu Ser Ser Thr Ser Val Ser Ser Ala
                165                 170                 175
Trp Ser His His Ser Gly Asp Ser Ser Leu Pro Phe Pro Leu His His
            180                 185                 190
Pro Arg Pro Arg Val Arg Arg Arg Thr Arg Pro Arg Gly Pro Met Asn
        195                 200                 205
Glu Gly Gln Tyr Gln Cys Thr Phe Cys Thr Gln Ser Phe Lys Lys Lys
    210                 215                 220
His Asp Trp Leu Arg His Glu Lys Ser Val His Leu Gln Leu Asp Ala
225                 230                 235                 240
Trp Ile Cys Thr Pro Asp Leu Asn Asp Leu Gln Pro Gly Asn Leu Pro
                245                 250                 255
Ser Gly Cys Arg Phe Cys Asp His Arg Ala Ser Ser Ile Asp His Trp
            260                 265                 270
Asn Asp His Glu Phe Glu Val Cys Ala Gln Lys Pro Ile Ala Asp Arg
        275                 280                 285
Ser Phe Ser Arg Lys Asp Tyr Leu Trp Gln His Leu Arg Lys Phe His
    290                 295                 300
Gly Cys Thr Lys Leu Pro Ile Glu Asn Leu Asp Gln Trp Arg Xaa Ala
305                 310                 315                 320
Arg Ser Asp
```

<210> 25748
<211> 142
<212> PRT
<213> A.fumigatus

<400> 25748

```
Asn His Gly Tyr Pro His Ala Ser Ile Ser Ala Ser Glu Thr Ser Gln
1               5                   10                  15
Arg Thr Phe Phe Met Leu Ala Met Ala Ala Ser Ala Glu Glu Thr Asn
            20                  25                  30
Arg Gln Ser Asn Ala Gly Arg Arg Ser Val Ile Ser Pro Ser Glu Ala
        35                  40                  45
Pro Pro Glu Ala Glu Gln Ser Asp Val Tyr Gln Thr Pro Pro Pro Gly
    50                  55                  60
Leu Lys Glu Trp Leu Phe Ile Leu Ile Leu Cys Ser Thr Gln Leu Phe
65                  70                  75                  80
Val Gln Gly Ala Phe Gly Tyr Ile Leu Ile Pro Leu His Ile Val Gly
                85                  90                  95
Gln Thr Phe Gly Gln Gly Pro Ser Glu Ala Thr Arg Met Thr Trp His
            100                 105                 110
Val Gly Gly Tyr Ser Leu Thr Val Gly Thr Phe Ile Leu Ile Ala Gly
        115                 120                 125
Lys Leu Gly Asp Leu Tyr Gly Ser Lys Arg Ile Leu Val Leu
    130                 135                 140
```

<210> 25749
<211> 143
<212> PRT
<213> A.fumigatus

<400> 25749

```
Glu Arg Phe Ile Tyr Ala Ala Ile Phe Lys Leu Val Ile Gly Arg Arg
1               5                   10                  15
```

```
Gly Lys Leu Thr Val Trp Ile Ile Pro Glu Phe Val Ser Ser Cys Met
            20                  25                  30
His Lys Ile Asn Thr Pro Tyr Leu Phe Ala Thr Thr Ser Ser Leu Leu
        35                  40                  45
Arg Arg Leu His Met Asn Ile Pro Ser Phe Leu Leu Arg Leu Arg Leu
    50                  55                  60
Arg Cys Leu His Pro Thr Thr Pro Leu His Ile Pro Ser Thr Leu Arg
65                  70                  75                  80
Ser Ile Ile Pro Asn Asn Pro Thr Phe Ser His Arg His Phe His Ser
                85                  90                  95
Thr Arg Ile Ile Met Ser Asp Val Val Leu Gln Leu Thr Ala Pro Asn
            100                 105                 110
Gly Arg Lys Tyr Ser Gln Pro Ile Gly Leu Phe Ile Asn Asn Glu Phe
        115                 120                 125
Val Pro Ser Lys Ser Gly Glu Lys Phe Ala Thr Ile Asn Pro Ser
    130                 135                 140
```

<210> 25750
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25750

```
Arg Pro Ser Gly Lys Pro Tyr Ser Val Ala Phe Asn Asp Asp Leu Gly
1               5                   10                  15
Glu Val Ile Asn Thr Ile Arg Tyr Cys Ala Gly Trp Ala Asp Lys Val
            20                  25                  30
His Gly Gln Thr Ile Ser Thr Thr Ser Ala Lys Phe Ala Tyr Thr Leu
        35                  40                  45
Arg Gln Pro Ile Gly Val Val Gly Gln Ile Ile Pro Trp Thr Ser Ser
    50                  55                  60
Pro Arg Gly Arg Lys Asn Pro Arg
65                  70
```

<210> 25751
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25751

```
Arg Asn Arg Asp Glu Ser Glu Ile Ala Ser Val Tyr Ala Ala Gly Glu
1               5                   10                  15
Glu Asp Ile Asp Ile Ala Val Lys Ala Ala Arg Lys Ala Leu Lys Asp
            20                  25                  30
Pro Ser Trp Lys Met Leu Pro Ala Thr Asp Arg Gly Asn Leu Met Leu
        35                  40                  45
Lys Leu Ala Asp Leu Val Glu Gln His Arg Glu Thr Leu Ala Thr Ile
    50                  55                  60
Glu Thr Trp Asp Asn Gly Val Leu Pro Leu Phe Gly Leu Pro Ala Ser
65                  70                  75                  80
Gly
```

<210> 25752
<211> 309
<212> PRT

<213> A.fumigatus

<400> 25752

```
Leu Thr Ala Gly Gly Phe Leu Asp Arg Gly Glu Asp Ile Glu Gly Thr
1               5                  10                  15
Ile Ala Ala Leu Gln Arg Leu Met Thr Tyr Ser Thr Leu Val Gly Ile
            20                  25                  30
Tyr Pro Glu Trp His Pro Arg Leu Phe Gly Pro Leu Ser Arg Phe Ser
        35                  40                  45
Trp Ser Gly Ala Ala Gly Arg Ala Tyr Ile Val Arg Phe Val Gln Glu
    50                  55                  60
Lys Ile Arg Gly Leu Ser Val Lys Ala Asp Pro Gly Gln Val Glu Arg
65                  70                  75                  80
Gly Pro Leu Ala Thr Gln Asn Phe Val Glu Lys Met Met Leu Ala Arg
                85                  90                  95
Asp Lys Asp Pro Glu Lys Val Thr Asp Tyr His Val Phe Met Met Gly
            100                 105                 110
Leu Ser Asn Val Ile Ala Gly Ser Asp Thr Thr Ala Ile Ser Leu Ser
        115                 120                 125
Ala Ile Met Tyr His Leu Leu Arg Tyr Pro Ala Val Met Glu Lys Leu
    130                 135                 140
Arg Arg Glu Ile Asp Ala Phe Ala Thr Asp Gly Lys Cys Ser Asp Ser
145                 150                 155                 160
Val Thr Phe Arg Glu Ser Gln Glu Met Pro Tyr Phe Gln Ala Val Ile
                165                 170                 175
Lys Glu Ala Leu Arg Met His Ser Ala Thr Gly Leu Pro Leu Trp Lys
            180                 185                 190
Val Val Pro Asp Gly Gly Ala Glu Ile Asn Gly Tyr Phe Phe Pro Ala
        195                 200                 205
Gly Thr Val Val Gly Ile Asn Thr Trp Val Ala His Tyr Asp Glu Glu
    210                 215                 220
Val Phe Pro Asp Ala Thr Thr Phe Arg Pro Glu Arg Trp Ile Glu Ala
225                 230                 235                 240
Glu Ser Asn Pro Glu Lys Leu Lys Ala Met Thr Glu Met Tyr Met Pro
                245                 250                 255
Ile Ser Leu Asn His Phe Ser Arg Ile Pro His Thr Asp Asp Gly Asn
            260                 265                 270
Ser Ala Leu Gly Thr Lys Asp Val Phe Trp Lys Thr Leu Leu Pro Ser
        275                 280                 285
Trp Lys Phe Arg Asn Leu Ile Pro Pro Asn Arg Pro Glu Asn Leu Glu
    290                 295                 300
Phe His Tyr His Glu
305
```

<210> 25753
<211> 93
<212> PRT
<213> A.fumigatus

<400> 25753

```
Trp Met Met Asp Ala Glu Arg Thr Val Ala Glu Thr Arg Lys Arg Phe
1               5                  10                  15
Ser Ser Leu Tyr Ser Met Thr Ser Leu Val His Tyr Glu Ala Phe Val
            20                  25                  30
Asp Arg Cys Ala Asp Leu Phe Cys Met Arg Leu Arg Glu Phe Ala Ala
        35                  40                  45
```

```
Arg Gly Glu Glu Phe Asn Leu Gly His Trp Phe Gln Cys Tyr Ala Phe
    50                  55                  60
Asp Val Ile Gly Asp Ile Thr Tyr Gly Gln Arg Phe Gly Glu Trp His
65                  70                  75                  80
Thr Arg Val Gln Trp His Gly Arg Val Arg Ala Thr Asp
                85                  90
```

<210> 25754
<211> 190
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (71),(76),(78),(80),(87),(88)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25754

```
Arg Ile Pro Thr Ile Gly Arg Gly Gly Arg Gly Leu Glu Cys Ser Ile
1               5                   10                  15
Phe Pro Ile Phe His Asp Ile Tyr Ile Pro Met Arg Asp Tyr Gly Ser
            20                  25                  30
Arg Ile Pro Asp Lys Gln Ser Lys Leu His Phe Leu Ser Leu Thr Ser
        35                  40                  45
Thr Thr Lys Met Phe Phe Ile Ile Val Ile Pro Met Val Ile Leu Leu
    50                  55                  60
Tyr Pro Phe Leu Ser Thr Xaa Tyr Thr Thr Ser Xaa Thr Xaa Ser Xaa
65                  70                  75                  80
Arg Arg Thr Pro Gly Pro Xaa Xaa Thr Arg Leu Thr Lys Leu Trp Tyr
                85                  90                  95
Phe Tyr Arg Val Arg Ala Gly His Phe Glu Thr Asp Asn Ile Ala Leu
            100                 105                 110
His Arg Arg Tyr Gly Pro Val Val Arg Ile Ala Pro Asp His Tyr Ser
        115                 120                 125
Ile Ser Gly Ser Ala Ala Ile Lys Thr Val Tyr Gly Thr Gly Ser Lys
    130                 135                 140
Phe Thr Lys Ser Ala Trp Tyr Glu Gly Trp Lys His Pro Asp Pro Asn
145                 150                 155                 160
Gln Trp Thr Leu Phe Pro Asp Arg Asn Ile Lys Arg His Gly Met His
                165                 170                 175
His Pro Arg Cys Ser Leu Gly Ser Asp His Cys Cys Asp Gly
            180                 185                 190
```

<210> 25755
<211> 144
<212> PRT
<213> A.fumigatus

<400> 25755

```
Asn Val Val Leu Pro Ala Leu Ser Cys Arg Leu Val Met Arg Ser Cys
1               5                   10                  15
Gly Leu Ser Gly Met Lys Ala Tyr Ile Arg Lys Thr Ile Gly Leu Gly
            20                  25                  30
Asn Ile Phe Ala Asp Leu Val Arg Ser Arg Ser Asp Leu Phe Glu Ile
        35                  40                  45
Ile Thr Lys Pro Ala Phe Cys Leu Thr Val Phe Arg Ile Lys Ser Pro
```

```
    50                  55                  60
Ser Leu Gln Ser Asn Ala Glu Ser Ser Val Pro Arg Ile Asp Asp Ala
65                  70                  75                  80
Ser Asn Ala Ile Thr Lys Glu Val Tyr Glu Leu Val Asn Ser Arg Gly
                85                  90                  95
Glu Ile Phe Ile Thr Ser Ser Val Ile Ala Gly Val Tyr Ala Ile Arg
            100                 105                 110
Val Val Ser Ala Asn Pro Ala Ala Glu Glu Lys Tyr Leu Arg Arg Ala
        115                 120                 125
Phe Glu Ile Leu Val Gln Thr Ala Glu Glu Val Leu Gln Lys Gln Gln
    130                 135                 140
```

<210> 25756
<211> 115
<212> PRT
<213> A.fumigatus

<400> 25756

```
Ser Cys His Arg Lys Asp Thr Lys Phe Phe Glu Ala Gln Pro Asn Trp
1               5                   10                  15
Arg Asn Val Ala His Asn Ser Ser Arg Val Leu Val Thr Gly Ala Thr
            20                  25                  30
Gly Phe Ile Gly Ala His Val Val Asp Ser Leu Leu Asp Arg Gly Ile
        35                  40                  45
Thr Val Arg Gly Ala Thr Arg Ser Leu Ser Lys Gly Glu Gln Met Arg
    50                  55                  60
Ala Ala Arg Pro Asp His Ala Ser Arg Leu Glu Phe Val Gln Ile Glu
65                  70                  75                  80
Asp Phe Ser Lys Leu Gly Gly Phe Asp His Val Met Glu Gly Val Asp
                85                  90                  95
Ala Val Ile His Val Ala Thr Val Cys Leu Ser Pro Cys His Ser Thr
            100                 105                 110
Gln Asp Asp
        115
```

<210> 25757
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25757

```
Thr Tyr Gly Ser Asn Val Asn Asp Cys Val Asn Ser Leu His Asp Met
1               5                   10                  15
Val Lys Pro Pro Gln Phe Arg Lys Ile Leu Asp Leu Asn Lys Leu Glu
            20                  25                  30
Pro Gly Ser Val Val Arg Ser Ser Ser Ser His Leu Leu Pro Leu Gly
        35                  40                  45
Gln Arg Pro Cys Gly Pro Ala His Gly Asn Ala Ser Ile Gln Gln Ala
    50                  55                  60
Val Tyr His Met Gly Pro Asp Glu Ala Ser Gly Ser Cys His
65                  70                  75
```

<210> 25758
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25758
Val Gln Leu Glu Ala Gln Lys Thr Pro His Arg Asn Pro Glu Cys Pro
1 5 10 15
Thr Pro Pro Phe Glu Cys Asn Leu Ala Val Glu Phe Thr Met Ser Leu
20 25 30
Arg Lys Thr Ser Cys Arg Ala Cys Val Ala Ala Lys Arg Arg Cys Asp
35 40 45
His Arg Val Pro Ser Cys Ser Arg Cys Cys Lys Arg Ser Ile Ala Cys
50 55 60
His Tyr Pro Tyr Pro Pro Pro Gln Ala Lys Gly Asp Lys Thr Thr Pro
65 70 75 80
Leu Asp Asp Tyr Val Gly Ser Ser Leu Gln Leu Asp Pro Thr Leu Leu
85 90 95
Ser Ala Cys Gly Pro Ser Leu Thr Asp Ser Ile Gln Thr Thr Met Ile
100 105 110
Ser Asp Arg Gly Asp Asp Pro Met Trp Phe Pro Lys Gly Thr Pro Thr
115 120 125
Ser Asn Gln Leu Trp Asn Phe Pro Gln Glu Met Ser Ala Gly Val Leu
130 135 140
Phe Pro Ala Gln Gln Met Val Leu Leu Gln His Tyr Pro Asp Trp Asn
145 150 155 160
Ala

<210> 25759
<211> 282
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (224)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25759
Asp Leu Pro Glu Ser Gln Arg Trp Ile Phe Tyr Ile Asn Phe Pro Phe
1 5 10 15
Ile Gly Val Gly Thr Leu Ala Ile Leu Leu Phe Leu Lys Leu Asn Ile
20 25 30
Ile Pro Thr Ser Leu Ala Glu Lys Leu Arg Lys Ile Asp Phe Val Gly
35 40 45
Thr Val Leu Phe Val Gly Ser Leu Ala Ser Phe Leu Ile Pro Leu Thr
50 55 60
Trp Gly Gly Val Leu Tyr Pro Trp Asn Ser Trp Arg Thr Leu Val Pro
65 70 75 80
Leu Ile Ile Gly Ala Cys Gly Leu Ala Val Phe Ala Tyr Tyr Glu Val
85 90 95
Arg Phe Ala Ala Asp Pro Ile Ile Pro Pro Thr Ile Phe Gln Asn Arg
100 105 110
Thr Ala Thr Val Ser Phe Leu Gly Ser Leu Leu Gln Gly Leu Val Leu
115 120 125
Trp Cys Ala Leu Tyr Tyr Leu Pro Leu Tyr Tyr Glu Ala Val Lys Glu
130 135 140
Tyr Ser Pro Ile Val Ser Gly Val Ala Leu Phe Pro Glu Thr Phe Thr
145 150 155 160

```
Val Ala Pro Ser Ala Met Val Val Gly Ile Leu Thr Thr Arg Trp Gly
                165                 170                 175
His Tyr Arg Trp Ala Ile Trp Leu Gly Trp Leu Leu Ser Thr Leu Gly
            180                 185                 190
Val Gly Leu Ile Cys Phe Ile Lys Val Asp Thr Ser Ile Pro Ala Trp
        195                 200                 205
Ile Phe Leu Asn Ile Val Pro Gly Ile Gly Leu Gly Leu Leu Phe Xaa
    210                 215                 220
Ser Leu Gly Phe Ala Ile Gln Ala Ser Ala Thr Ser Asp Thr Leu Ala
225                 230                 235                 240
Ile Ala Val Gly Met Phe Ser Phe Phe Arg Ala Met Gly Gln Ala Ile
                245                 250                 255
Gly Val Ala Ile Gly Gly Val Leu Phe Gln Lys Arg Leu Tyr His Asn
            260                 265                 270
Leu Leu Gln Tyr Pro Ser Leu Ala Pro Arg
        275                 280

<210> 25760
<211> 293
<212> PRT
<213> A.fumigatus

<400> 25760
Cys Pro Leu Trp His Ile Ser Leu Ser Pro Arg Ala Val Phe Gln Pro
1               5                   10                  15
Asn Phe Ala Ser Phe Ser Ser Ile Phe Gly Arg Arg Pro Leu Val Leu
            20                  25                  30
Val Ala Leu Ala Phe Phe Phe Val Gly Thr Val Val Ala Ala Val Ala
        35                  40                  45
Lys Asn Phe Thr Tyr Leu Leu Val Gly Arg Ser Ile Gln Gly Val Gly
    50                  55                  60
Gly Gly Gly Leu Ile Ala Leu Ser Glu Val Ile Val Thr Asp Leu Val
65                  70                  75                  80
Pro Leu Arg Leu Arg Gly Gln Tyr Phe Gly Ile Leu Ser Ala Met Trp
                85                  90                  95
Ser Val Gly Ser Val Thr Gly Pro Ile Leu Gly Gly Gly Phe Ser Gln
            100                 105                 110
Asp Val Ser Trp Val Ser Phe Phe Ser Gly Gly Trp Thr Arg Ser Asp
        115                 120                 125
Lys Val Gly Leu Thr Arg Ile Pro Ala Leu Asp Ile Leu His Gln Leu
    130                 135                 140
Pro Leu His Arg Ser Gly Asn Pro Gly Tyr Pro Pro Phe Pro Gln Ala
145                 150                 155                 160
Gln His His Pro Asp Leu Pro Gly Arg Glu Thr Pro Gln Asn Arg Leu
                165                 170                 175
Arg Arg His Cys Leu Val Arg Arg Gln Pro Gly Leu Val Pro Asp Pro
            180                 185                 190
Val Asp Met Gly Arg Cys Ser Val Pro Leu Glu Phe Met Ala Asp Pro
        195                 200                 205
Cys Pro Ser Asn His Arg Arg Leu Trp Pro Gly Cys Val Cys Leu Leu
    210                 215                 220
Arg Gly Lys Val Arg Ser Gly Pro Asn Tyr Ser Ala Asn Asp Leu Pro
225                 230                 235                 240
Glu Pro Tyr Arg Asn Cys Ile Leu Ser Trp Lys Ser Pro Thr Gly Thr
                245                 250                 255
Cys Ala Leu Val Cys Pro Leu Leu Ser Ala Leu Val Leu Arg Gly Cys
```

```
            260                 265                 270
Glu Arg Ile Gln Ser Asp Cys Phe Arg Ser Arg Ser Ile Pro Gly Asp
        275                 280                 285
Phe His Gly Ser Pro
    290

<210> 25761
<211> 68
<212> PRT
<213> A.fumigatus

<400> 25761
Thr Lys Lys Leu Ser Arg Gly Ile Val Ala Val Trp Tyr Ile Thr Lys
1               5                   10                  15
Cys Pro Glu Ser Gln Gln His Leu Asp Glu Leu Arg Gly Ala Ser Ser
            20                  25                  30
Ala Pro Ile Ser Phe Tyr Lys Ile Lys Ser His Phe Ser Phe His Cys
        35                  40                  45
Asp Leu Leu Gln Ala Leu Glu Cys Thr Glu Phe Tyr Ser Asp Glu Leu
    50                  55                  60
Ser Lys Glu Pro
65

<210> 25762
<211> 233
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13),(19),(20),(47),(73),(146)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25762
Asn Trp Pro Pro Ile Ile Cys Asp Phe Ala Cys Arg Xaa Asp Thr Val
1               5                   10                  15
Gly Ser Xaa Xaa Pro Trp Tyr Gln Pro Ser Leu His Gln Pro Leu Gly
            20                  25                  30
Pro Val Asn Met Ser Ser Thr Ala Leu Pro Lys Arg Val Ala Xaa His
        35                  40                  45
Arg Asn Pro Thr Thr Glu Ser Ser Val Pro Ser Ser Val Ser His Ser
    50                  55                  60
Pro Phe Asp Ser Leu Arg Gln Ser Xaa Ser Ser Thr Ser Leu Ser Ser
65                  70                  75                  80
Met Ala Ser Asp Ala Glu Lys Thr Ser Ser Lys Met Ile Asp Thr Tyr
                85                  90                  95
Gly Asn Glu Phe Lys Ile Pro Asp Tyr Thr Ile Lys Gln Ile Arg Asp
            100                 105                 110
Ala Ile Pro Ala His Cys Tyr Gln Arg Ser Ala Ala Thr Ser Leu Tyr
        115                 120                 125
Tyr Val Phe Arg Asp Met Ala Ile Leu Ala Ser Val Phe Tyr Val Phe
    130                 135                 140
His Xaa Tyr Val Thr Pro Glu Thr Val Pro Ser Met Pro Val Arg Val
145                 150                 155                 160
Val Leu Trp Thr Ile Tyr Thr Val Val Gln Gly Leu Val Gly Thr Gly
                165                 170                 175
```

```
Val Trp Val Leu Ala His Glu Cys Gly His Gln Ala Phe Ser Thr Ser
            180                 185                 190
Lys Val Leu Asn Asp Thr Val Gly Trp Ile Cys His Ser Leu Leu Leu
        195                 200                 205
Val Pro Tyr Phe Ser Trp Lys Ile Ser His Gly Lys His His Val Phe
    210                 215                 220
Thr Pro Gly Gly Trp Lys Ile Ser Val
225                 230
```

<210> 25763
<211> 168
<212> PRT
<213> A.fumigatus

<400> 25763

```
Leu Arg Gly Tyr Ala Leu Gln Gln Ala Lys Pro Val Met Leu Arg Asn
1               5                   10                  15
Ser Ile His Lys Pro Gln Val Leu Cys Ser Asp Asp Pro Ile Leu Thr
            20                  25                  30
Tyr Gly Phe Ile Asn Leu Ile Asn Met Phe Glu Lys Leu Thr Pro Asn
        35                  40                  45
Leu Tyr Asp Trp Ile Ser Ala Gly Gly Gly Glu Gly Phe Cys Glu Met
    50                  55                  60
Pro Pro Ile Ser Ser Ile Gln Ser Ser Leu Cys Lys Pro Met Ser Leu
65                  70                  75                  80
Asp Gly Val Val Glu Ile Gln Arg Val Asp Ile Leu Val Thr Gln Gln
                85                  90                  95
Trp Leu Gln Ala Met Ile Trp Lys Leu Ser Met Ala His Val Ser Gln
            100                 105                 110
Pro Gly Ser Arg Glu Asp Ala Val Leu Pro Phe His Leu Pro Leu Leu
        115                 120                 125
Val Gly Lys Ala Val Met Asp Val Ile Gly Ala Ala Ser Gln Gly Ser
    130                 135                 140
Ile Asp Ala His Gly Ile Gly Met Val Ser Leu Asp Ser His Pro Pro
145                 150                 155                 160
Ser Leu Leu Thr Arg Pro Ile His
                165
```

<210> 25764
<211> 153
<212> PRT
<213> A.fumigatus

<400> 25764

```
Leu Ser Cys Ile Ser Phe Gln Glu Gln Lys Leu Phe Asp Ile Gly Met
1               5                   10                  15
Ala Val Ala Asp Val Thr Arg Ser Leu Gly Ser Lys Ala Ser His His
            20                  25                  30
Leu Ala Glu Ser Ala Val Asp Pro Arg Glu Leu Leu Trp Gly Leu Leu
        35                  40                  45
Ser Ile Leu Ser Arg Ile Arg Gly Ser Pro Ser Tyr Leu Phe Pro Thr
    50                  55                  60
Leu Leu Asn Arg Ser Lys Ser Ile Leu Gly Leu Asp Cys Ser Ile Ser
65                  70                  75                  80
Met Ser Asn Phe Leu Pro Leu Ile Thr Ala Pro Pro Ser Gly Pro Thr
                85                  90                  95
```

```
Pro Ser Trp Arg Asp Gln Ser Gln Ser Arg Trp Asp Leu Leu Thr Ala
            100                 105                 110
Ala Glu Pro Glu Thr Glu Glu Ser Asp His Ala Ala Ser Val Pro Val
        115                 120                 125
Ser Val Pro Ala Ser Val Ser His Ile Pro Ser Pro Met Thr Phe His
    130                 135                 140
Asp Thr His Leu Leu Arg Ala Ala Arg
145                 150
```

<210> 25765
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25765

```
Ile Gly His Phe Arg Gln Pro Asn Ile Ile Phe Leu Ala Tyr Leu Phe
1               5                   10                  15
Lys Ser Arg Met Ile Gly Thr Leu Gly Asp Gly Glu Arg Tyr Met Pro
            20                  25                  30
Tyr Gly Gly Gly Ser Leu Cys Leu Leu Asp Ser Asn Cys Glu Met Glu
        35                  40                  45
Ile Ile Leu Tyr Phe Ser Ser Lys Gly Thr Leu Leu Asn Asn Ala Thr
    50                  55                  60
Glu Glu
65
```

<210> 25766
<211> 199
<212> PRT
<213> A.fumigatus

<400> 25766

```
Ser Ala Phe Pro Ser Ser Pro Val Val Lys Thr Pro Thr Gly Val Ala
1               5                   10                  15
Ala Ser Ala Gly Asp Pro Glu Asp Lys Glu Val Leu Asn Tyr His Ile
            20                  25                  30
Leu Leu Ile Glu Asn Met Asn His Tyr Ile Glu Glu Val Asp Val Arg
        35                  40                  45
Gly Leu Pro Val Leu Glu Arg Trp Arg Asp Arg Ala Gln Gln Asp Tyr
    50                  55                  60
Glu Glu His Leu Lys Leu Tyr Leu Asp Leu Val Ile Gln Arg Pro Leu
65                  70                  75                  80
Gly Lys Leu Leu Glu Phe Ile Asp Ala Ala Glu Gly Leu Met Ala Gly
                85                  90                  95
Gly Gly Asn Pro Ala Asp Ile Ala Ser Arg Pro Ser His Ser Arg Ser
            100                 105                 110
Val Ala Lys Lys Val Leu Ala Met Tyr Asp Ser Lys Glu Ile Arg Arg
        115                 120                 125
Gly Ile Glu Leu Leu Lys Lys Arg Val Asp Lys His Phe Gly Asp Ala
    130                 135                 140
Asp Asp Pro Gly Leu Ser Arg Ser Leu Val Leu Lys Val Leu Arg Ala
145                 150                 155                 160
Cys Glu Arg Arg Tyr Glu Glu Ala Tyr Asp Arg Thr Arg His Val Leu
                165                 170                 175
Asp Ala Val Tyr Glu Gly Gln Leu Asp Leu Glu Trp Arg Lys Glu Asp
            180                 185                 190
```

Val Ile Ala Met Phe Asn Arg
195

<210> 25767
<211> 368
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (291),(345),(362)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25767
Ser Thr Leu Ala Gln Lys Arg Lys Lys Arg Arg Cys Leu Arg Lys Ile
1 5 10 15
Leu Ile Thr Pro Leu Leu Arg His Pro Leu Thr Val Lys Pro Val Tyr
20 25 30
Leu Ala Leu His Ile Arg Ile Arg Pro Leu Ile Arg His Gly Ala Leu
35 40 45
Pro Arg Pro Leu Pro Gln Arg Gly Lys Leu Pro Val Ala Leu Phe Leu
50 55 60
Gly Arg Ala Leu Ala Gln Met Gln Arg Pro Pro Arg Arg Ser Arg Gln
65 70 75 80
Leu Asp Gln Arg Ile Cys Pro Val Leu Ala His Thr Leu Ile His Leu
85 90 95
Gln Arg Leu Gly Asp Ala Arg Arg Arg Gly Val Arg His Ala Ala Gln
100 105 110
Gly Asp Gly Asp Arg Arg Ala Val Leu Asp Arg Leu Arg Gly Ala Leu
115 120 125
Cys Glu Met Arg Gln Gly Gly Val Ala Gly Val Ala Asp Glu Gly Gly
130 135 140
Leu Phe Val Asp Pro Gly Gly Glu Gly Phe Val Asp Ala Gln Leu Pro
145 150 155 160
Leu Ala Asp Phe Ala Phe Gly His Val Val Glu His Ala Leu Asp Glu
165 170 175
Gly Ala Glu Val Gly Glu Asp Thr Glu His Gly Gly Leu Gly Ala Leu
180 185 190
Gly Gly Val Gly Gly Val Gly Gly Gly Gly Glu Val Gly Val Gly Leu
195 200 205
Gly Gly Gly Glu Val Val Asp Gly Val Val Gly Asp Arg Val Gly Asp
210 215 220
Asp Val Ala Ala Leu Ala Asp Pro Ala Asp His Pro Val Ala Val Asp
225 230 235 240
Asp Gly Leu Gln Leu Gly Val Val Leu Ala Leu Val Leu Val Asn His
245 250 255
Asp Ala Val Gly Gly Leu Val Gly Val Leu Asp Gly Gly Gly Asp Ala
260 265 270
Glu Arg Leu Gln His Arg Asp Ala Arg Leu Gly Leu Asp Ala Val Gly
275 280 285
Gly Glu Xaa Asp Val Arg Leu Asp Arg Val Gly Gly Ala Ala Val Ser
290 295 300
Gly Asp Gly Cys Lys Gly Cys Thr Arg Gly Glu Arg Gly His Ile Leu
305 310 315 320
Arg Gly Arg Gly Lys Met Glu Leu Asp Leu Val Gly Ala Thr Pro Asn
325 330 335

```
Thr Pro Cys Thr Arg Arg Trp Pro Xaa Asn Ala Val Gly Asp His Val
            340                 345                 350
Glu Gly Ile Arg Met Phe Arg Arg Ser Xaa Arg Val Glu Arg Ala Arg
        355                 360                 365
```

<210> 25768
<211> 142
<212> PRT
<213> A.fumigatus

<400> 25768

```
Gln Ser Asn Pro Tyr Ile Ser Arg Cys Thr Ser Ala Ser Ala His Leu
1               5                   10                  15
Ser Gly Thr Gly Pro Phe Pro Val Pro Cys Leu Ser Ala Ala Asn Cys
            20                  25                  30
Leu Ser Arg Ser Ser Leu Ala Ala Pro Ser Pro Arg Cys Ser Ala Arg
        35                  40                  45
Pro Asp Ala Ala Ala Ser Ser Thr Ser Ala Tyr Ala Arg Ser Leu Arg
    50                  55                  60
Thr Leu Ser Tyr Thr Phe Ser Ala Leu Val Met Leu Ala Gly Glu Gly
65                  70                  75                  80
Ser Gly Met Arg Arg Arg Ala Met Ala Ile Val Ala Pro Ser Ser Ile
                85                  90                  95
Ala Cys Ala Ala Pro Cys Ala Arg Cys Gly Arg Val Gly Trp Gln Ala
            100                 105                 110
Ser Pro Thr Arg Ala Val Cys Ser Trp Thr Gln Val Gly Arg Gly Ser
        115                 120                 125
Trp Thr Arg Ser Phe His Ser Gln Thr Ser Pro Ser Gly Thr
    130                 135                 140
```

<210> 25769
<211> 331
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (54)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25769

```
Trp Pro Thr Pro Cys Thr Arg Gly Val Trp Gly Cys Pro Asp Gln Ile
1               5                   10                  15
Lys Phe His Phe Ser Thr Ala Ala Glu Asp Val Thr Ser Phe Ala Pro
            20                  25                  30
Arg Ala Thr Phe Thr Ala Val Pro Arg Asp Gly Ser Ala Pro Tyr Pro
        35                  40                  45
Val Glu Ala Asp Val Xaa Leu Ala Ala Asp Gly Ile Lys Ser Lys Thr
    50                  55                  60
Arg Val Ala Met Leu Gln Thr Leu Gly Ile Thr Ala Thr Val Lys Asp
65                  70                  75                  80
Thr Asn Gln Ala Ala Tyr Arg Ile Met Ile His Lys Asp Gln Cys Gln
                85                  90                  95
Asp Asp Pro Glu Leu Gln Ala Ile Ile Asn Ser Asn Arg Val Ile Arg
            100                 105                 110
Trp Ile Gly Glu Arg Arg His Ile Ile Ala Tyr Pro Val Ser Asn Asn
```

```
        115                 120                 125
Thr Ile Tyr Asn Leu Ser Thr Thr Gln Pro Asp Thr Asn Phe Ala Ala
    130                 135                 140
Ala Thr Asn Ala Thr Tyr Thr Thr Lys Gly Ser Lys Ala Ala Met Leu
145                 150                 155                 160
Arg Val Phe Ala Asp Phe Cys Pro Leu Val Gln Arg Met Leu Asn Tyr
                165                 170                 175
Val Pro Glu Gly Glu Val Cys Glu Trp Lys Leu Arg Val His Glu Pro
            180                 185                 190
Leu Pro Thr Trp Val His Glu Gln Thr Ala Leu Val Gly Asp Ala Cys
        195                 200                 205
His Pro Thr Leu Pro His Leu Ala Gln Gly Ala Ala Gln Ala Ile Glu
    210                 215                 220
Asp Gly Ala Thr Ile Ala Ile Ala Leu Arg Arg Met Pro Asp Pro Ser
225                 230                 235                 240
Pro Ala Ser Ile Thr Lys Ala Leu Lys Val Tyr Glu Ser Val Arg Lys
                245                 250                 255
Asp Arg Ala Tyr Ala Leu Val Glu Leu Ala Ala Ala Ser Gly Arg Ala
            260                 265                 270
Leu His Leu Gly Glu Gly Ala Ala Lys Glu Glu Arg Asp Arg Gln Phe
        275                 280                 285
Ala Ala Leu Arg Gln Gly Thr Gly Lys Gly Pro Val Pro Asp Lys Trp
    290                 295                 300
Ala Asp Ala Asp Val Gln Arg Glu Ile Tyr Gly Phe Asp Cys Gln Arg
305                 310                 315                 320
Val Thr Glu Glu Arg Cys Asp Glu Tyr Phe Ala
                325                 330
```

<210> 25770
<211> 137
<212> PRT
<213> A.fumigatus

<400> 25770

```
Ser Ala Gly Ser Ala Ser Ala Ala Thr Ser Ser Pro Thr Arg Ser Pro
1               5                   10                  15
Thr Thr Pro Ser Thr Thr Ser Pro Pro Pro Ser Pro Thr Pro Thr Ser
            20                  25                  30
Pro Pro Pro Pro Thr Pro Pro Thr Pro Pro Arg Ala Pro Arg Pro Pro
        35                  40                  45
Cys Ser Val Ser Ser Pro Thr Ser Ala Pro Ser Ser Ser Ala Cys Ser
    50                  55                  60
Thr Thr Cys Pro Lys Ala Lys Ser Ala Ser Gly Ser Cys Ala Ser Thr
65                  70                  75                  80
Asn Pro Ser Pro Pro Gly Ser Thr Asn Arg Pro Pro Ser Ser Ala Thr
                85                  90                  95
Pro Ala Thr Pro Pro Cys Arg Ile Ser His Arg Ala Pro Arg Arg Arg
            100                 105                 110
Ser Arg Thr Ala Arg Arg Ser Pro Ser Pro Cys Ala Ala Cys Arg Thr
        115                 120                 125
Pro Arg Arg Arg Ala Ser Pro Arg Arg
    130                 135
```

<210> 25771
<211> 275
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(25),(78)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25771
Leu Gly His Val Gln Leu Xaa Tyr Phe Gly Glu Thr Tyr Gly Tyr Pro
1 5 10 15
Gln His Gly Arg Pro Pro His Leu Xaa Ala Asn Ala Leu Tyr Lys Gly
20 25 30
Cys Leu Gly Leu Pro Arg Pro Asn Gln Val Pro Phe Phe His Gly Arg
35 40 45
Gly Gly Cys Asp Leu Val Arg Pro Ala Cys Asn Leu Tyr Ser Arg Pro
50 55 60
Pro Arg Arg Gln Arg Pro Leu Pro Gly Arg Gly Gly Arg Xaa Thr Arg
65 70 75 80
Arg Arg Arg His Gln Val Gln Asp Ala Arg Arg Asp Ala Ala Asn Ala
85 90 95
Arg His His Arg His Arg Gln Gly His Gln Pro Gly Arg Leu Pro His
100 105 110
His Asp Ser Gln Gly Pro Met Pro Gly Arg Pro Arg Ala Ala Ser His
115 120 125
His Gln Gln Gln Pro Gly Asp Pro Leu Asp Arg Arg Ala Pro Pro His
130 135 140
His Arg Leu Pro Gly Leu Gln Gln His His Leu Gln Pro Leu His His
145 150 155 160
Pro Ala Arg His Gln Leu Arg Arg Arg His Gln Arg His Leu His His
165 170 175
Gln Gly Leu Gln Gly Arg His Ala Pro Cys Leu Arg Arg Leu Leu Pro
180 185 190
Pro Arg Pro Ala His Ala Gln Leu Arg Ala Arg Arg Arg Ser Leu Arg
195 200 205
Val Glu Ala Ala Arg Pro Arg Thr Pro Pro His Leu Gly Pro Arg Thr
210 215 220
Asp Arg Pro Arg Arg Arg Arg Leu Pro Pro His Pro Ala Ala Ser Arg
225 230 235 240
Thr Gly Arg Arg Ala Gly Asp Arg Gly Arg Arg Asp Asp Arg His Arg
245 250 255
Pro Ala Pro His Ala Gly Pro Leu Ala Gly Glu His His Gln Gly Ala
260 265 270
Glu Gly Val
275

<210> 25772
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25772
Leu Trp His Ser Ala Arg Gln Arg Arg Thr His Ile Pro Asn Pro Thr
1 5 10 15
Thr Gln Tyr Val Ala Tyr Gln Lys Leu Thr Ser Pro Pro Phe Ala Pro
20 25 30
Val Ala Gly Gly Tyr His Gly Ala Thr Thr Met Tyr Arg Phe Glu Arg

```
        35                  40                  45
Met Glu Lys Pro Thr Thr Thr Phe His Ala Leu Tyr Pro Glu Gly Gly
    50                  55                  60
Met Leu Cys Arg Leu Arg
65                  70

<210> 25773
<211> 104
<212> PRT
<213> A.fumigatus

<400> 25773
Asp Met Leu Gly Ser Ser Ala Met Arg Tyr Ser Tyr Arg Gln Asn Pro
1               5                   10                  15
Val Lys Thr Leu Arg Trp Ser Ala Pro Leu Ser Leu Leu Leu Val Ala
            20                  25                  30
Thr Leu Tyr Met Leu Ala Asn Ile Ala Tyr Phe Ser Ala Ala Ser Lys
        35                  40                  45
Glu Glu Ile Leu Gly Ser Lys Val Val Ala Ala Ser Ile Phe Phe Gln
    50                  55                  60
Lys Val Phe Gly Thr Ser Ser Ala Ser Arg Ala Leu Asn Phe Leu Ile
65                  70                  75                  80
Cys Leu Ser Ala Phe Gly Asn Leu Leu Ala Val Leu Ile Gly Gln Ser
                85                  90                  95
Arg Leu Leu Arg Glu Cys Gly Arg
            100

<210> 25774
<211> 97
<212> PRT
<213> A.fumigatus

<400> 25774
Ser Val Ala Val Pro Asn Glu Thr Arg Gln Gly Val Leu Pro Phe Thr
1               5                   10                  15
Lys Phe Trp Thr Ser Thr Arg Pro Phe Gly Thr Pro Leu Gly Pro Tyr
            20                  25                  30
Ala Leu Lys Trp Ala Leu Thr Val Leu Met Ile Leu Ala Pro Pro Ala
        35                  40                  45
Gly Asp Ala Phe Asn Phe Gly Ala Ile Phe Ser Pro Thr Asn Ile His
    50                  55                  60
Val Tyr Thr Asp Val Arg Ser Arg Arg Pro Gly Arg Leu Pro His Gln
65                  70                  75                  80
Cys Ile Arg Leu Ile Pro Arg His Trp Thr Ile Ala His Pro Ser Ser
                85                  90                  95
Pro


<210> 25775
<211> 212
<212> PRT
<213> A.fumigatus

<400> 25775
Arg Ile Ser Ile Gly Ile Thr Gly Leu Val Val Leu Gly Gly His Thr
1               5                   10                  15
```

```
Lys Ile Glu Asp Pro Lys Ala Asn Phe Arg Asp Ala Phe Ala Gly Ser
            20                  25                  30
Ser Ser Ala Ser Val Tyr Gly Ala Thr Asn Ala Leu Val Lys Val Ala
        35                  40                  45
Phe Ser Tyr Ala Gly Phe Glu Asn Ala Phe Asn Val Val Asn Glu Val
    50                  55                  60
Lys Val Gly His Ala Trp Ile Phe Arg Tyr Ala Ile Leu Ile Ser Ala
65                  70                  75                  80
Glu Ser Cys Gln Asn Val Ala Met Glu Arg Ala Ala Leu Pro Pro Ala
                85                  90                  95
Arg Ser Asn Pro Ile His Ala Arg Gln His Arg Leu Phe Leu Arg Arg
            100                 105                 110
Ile Lys Gly Arg Asp Pro Arg Leu Lys Gly Arg Gly Gly Glu Tyr Leu
        115                 120                 125
Leu Pro Glu Ser Leu Arg His Glu Gln Arg Val Thr Ser Pro Glu Leu
    130                 135                 140
Leu Asp Leu Ser Gln Arg Val Arg Glu Pro Ala Cys Arg Ser Tyr Arg
145                 150                 155                 160
Ala Val Pro Ser Pro Pro Arg Met Arg Lys Val Ser Gln Cys His Ala
                165                 170                 175
Trp Ala Glu Ala Ser Pro Ser Leu Thr Arg Pro Asp Lys Glu Ser Ser
            180                 185                 190
Arg Ser Pro Ser Ser Gly Pro Arg Pro Val His Ser Ala Arg Arg Leu
        195                 200                 205
Gly Pro Thr Arg
    210
```

<210> 25776
<211> 144
<212> PRT
<213> A.fumigatus

```
<400> 25776
His Arg Leu Arg Phe Arg Asn Thr Gly Asn Ser Ala Met Asp Asp Thr
1               5                   10                  15
Gln Ile Glu His Pro Arg Pro Ile Pro Ile Phe Tyr Cys Cys Tyr Leu
            20                  25                  30
Leu Arg Ser Thr Val Arg His Ala Ser Leu Tyr Ile Gly Ser Thr Pro
        35                  40                  45
Asn Pro Ala Arg Arg Leu Ile Gln His Asn Gly Val Val Lys Gly Gly
    50                  55                  60
Ala Arg Arg Thr Ala Ala Glu Lys Leu Arg Pro Trp Glu Met Val Leu
65                  70                  75                  80
Val Val Glu Gly Phe Met Ser Arg Leu Ala Ala Leu Gln Phe Glu Tyr
                85                  90                  95
Val Ser His Tyr Leu Ser Cys Val Gln Asn Leu Thr Phe Pro Lys Met
            100                 105                 110
Gly Leu Ala Lys Ser Leu Val Leu Thr Pro Leu Thr Ile Arg Arg Lys
        115                 120                 125
Leu Ser Ser Arg Gly Gly Gln Ala Gln Glu Asn Glu Glu Ser Lys Ile
    130                 135                 140
```

<210> 25777
<211> 87
<212> PRT
<213> A.fumigatus

<400> 25777
Lys Thr Ala Phe Arg Met Lys Phe Arg Tyr Phe Lys Tyr Leu Val Met
1 5 10 15
Leu Phe Arg Leu Thr Asn Thr Pro Ala Leu Phe Lys Arg Phe Ile Lys
20 25 30
Glu Val Leu His Lys Val Leu His Cys Phe Val Val Val Tyr Leu Asp
35 40 45
Asn Ile Leu Ile Phe Ser Glu Asn Lys Glu Glu Tyr Val Glu Tyr Ile
50 55 60
Arg Glu Val Leu Gln Glu Leu Gln Lys Ala Asn Ile Arg Leu Lys Leu
65 70 75 80
Lys Lys Cys Glu Phe His Val
85

<210> 25778
<211> 80
<212> PRT
<213> A.fumigatus

<400> 25778
Phe Ile Gly Leu Met Asn Tyr Tyr Gln Gln Phe Ile Lys Gly Tyr Ile
1 5 10 15
Lys Ile Met Met Leu Phe Phe Glu Leu Leu Lys Lys Gly Lys Glu Phe
20 25 30
Glu Trp Thr Thr Glu Cys Glu Ile Val Phe Thr Arg Ile Lys Glu Lys
35 40 45
Ile Ile Thr Ala Pro Ile Leu Val Gln Tyr Asn Leu Asp Lys Glu Thr
50 55 60
Thr Ile Lys Thr Asn Ala Thr Asp Tyr Thr Ile Arg Met Arg Met Thr
65 70 75 80

<210> 25779
<211> 127
<212> PRT
<213> A.fumigatus

<400> 25779
Leu His Val Glu Pro Leu Leu Ile Lys Pro Leu Thr Ser Ile Leu Val
1 5 10 15
Arg Tyr Met Glu Ala Asp Leu Thr Cys Tyr Leu Gly Lys Gly His Cys
20 25 30
Ile Ala Leu Ala Ser Ser Cys Ile Tyr Ser Thr Leu Ser Phe Leu Cys
35 40 45
Ala Trp Asn His Ala Ile Met Leu Phe Ser Pro Phe Leu Cys Pro Phe
50 55 60
Leu Ser Ala Ser Leu Val Trp Ile Ser Tyr Arg Arg Val Asp Asp Asn
65 70 75 80
Arg Trp Phe Leu Val Ser Ser Met Gly Tyr Phe Lys Ile Leu Thr Asn
85 90 95
Thr Leu Lys Arg Asn Leu Tyr Tyr Tyr Asp Tyr Tyr Tyr Tyr Tyr Tyr
100 105 110
Tyr Leu Thr Ile Leu Met His Asp Ala Ala Gly Leu Gly Leu Ser
115 120 125

<210> 25780

<211> 76
<212> PRT
<213> A.fumigatus

<400> 25780
Asp Arg Ser Asn Cys Leu Arg Thr Ser Ser Ala Asn Glu Glu Val His
1 5 10 15
His Tyr Gly Gly Ile His Lys Arg Thr Val Glu Met Asn Ser Leu His
20 25 30
Lys Ser Ala Ser Pro Gln Thr Arg Gln Gly Asp Met Ala Ala Lys Ile
35 40 45
Ser Leu Asn Leu Phe Leu Glu Val Ile Tyr Ile Asn Ser Thr Ala Ile
50 55 60
Asp Asn Met Glu Pro Leu Leu Thr Leu Ile Gly Ser
65 70 75

<210> 25781
<211> 155
<212> PRT
<213> A.fumigatus

<400> 25781
Glu Leu Ala His Gly Leu Arg Tyr Thr Thr Phe Gly Tyr Ser His Leu
1 5 10 15
Arg Val Gln Ala Leu Asn Ser Ser Ser Ser Ala Tyr Val Pro Thr Ser
20 25 30
Gly Glu Thr Lys Pro Ala Pro Thr Tyr Gly Glu Ile Gly Ser Ala Ala
35 40 45
Asp Tyr Leu Tyr Pro Glu Gly Leu Lys Arg Ile Thr Lys Phe Ile Tyr
50 55 60
Pro Trp Leu Asn Ser Thr Asp Leu Glu Asp Ser Ser Asp Asp Pro Asn
65 70 75 80
Tyr Gly Trp Glu Asp Ser Glu Tyr Ile Pro Glu Gly Ala Arg Asp Gly
85 90 95
Ser Pro Gln Pro Leu Leu Lys Ala Gly Gly Ala Pro Gly Gly Asn Pro
100 105 110
Thr Leu Tyr Gln Asp Leu Val Arg Val Ser Ala Thr Ile Thr Asn Thr
115 120 125
Gly Asn Val Ala Gly Tyr Glu Val Pro Gln Leu Val Ser Asp Pro His
130 135 140
Val Pro Cys Val Ala Ile Trp Leu Thr Arg Phe
145 150 155

<210> 25782
<211> 77
<212> PRT
<213> A.fumigatus

<400> 25782
Tyr Val Ser Leu Gly Gly Pro Asn Glu Pro Arg Val Val Leu Arg Lys
1 5 10 15
Phe Asp Arg Ile Phe Leu Ala Pro Gly Glu Gln Lys Val Trp Thr Thr
20 25 30
Thr Leu Asn Arg Arg Asp Leu Ala Asn Trp Asp Val Glu Ala Gln Asp
35 40 45
Trp Val Ile Thr Lys Tyr Pro Lys Lys Val His Val Gly Ser Ser Ser

```
    50                  55                  60
Arg Lys Leu Pro Leu Arg Ala Pro Leu Pro Arg Val Tyr
65                  70                  75

<210> 25783
<211> 602
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (284),(576)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25783
Ala Ile Arg Arg Thr Pro Ala Lys Ala Gly Gln Ser Cys Thr Thr Asp
1               5                   10                  15
Pro Glu Leu Asn Ile Ile Cys Phe Ser Ser Leu Val His Ser Asp Cys
            20                  25                  30
Ala Gly Cys Cys Arg Ser Ala Val Asp Gly Leu Ser Gly Gly Arg Trp
        35                  40                  45
Ala Cys Gln Thr Glu Ser Asp Thr Gly Thr Leu Gly Gly Leu Phe Asp
    50                  55                  60
Ser Ala Ile Glu Val Phe Gly Lys Trp Asp Ser Pro Glu Leu Glu Pro
65                  70                  75                  80
Ala Ala Glu Asn Ala Leu Val Glu Phe Lys Asp Gln Phe Ser Asp Val
                85                  90                  95
Phe Gly Gln Ala Leu Met Gly Ala Ala Lys Glu Glu Val Ser Phe Arg
            100                 105                 110
Val Thr Ala Leu Glu Gly Phe Leu Arg Leu Ser Ile Leu Arg Asp Tyr
        115                 120                 125
Phe Gln Asp Asn Glu Ile Gly Leu Phe Val Gln Tyr Leu Asp Glu Ile
    130                 135                 140
Leu Leu Lys Glu Glu Cys Ala Gly Arg Gly Asp Leu Lys Lys Lys Ala
145                 150                 155                 160
Ile Ala Ala Leu Ala Glu Ile Ser Lys His Lys Pro Arg Leu Ile Met
                165                 170                 175
Asp Ile Thr Phe Pro Ala Phe Val Ala Thr Leu Pro Asp Ser Asp Glu
            180                 185                 190
Gly Pro Asn Thr Asp Tyr Ile Thr Thr Leu Glu Asn Leu Ala Gln Ile
        195                 200                 205
Ser Val Glu Arg Asp Ile Phe Glu Thr Leu Val Arg Arg Leu Leu Ser
    210                 215                 220
Lys Leu Thr Ile Leu Leu Gln Lys Glu Arg Ala Gly Ser Ile Ala Tyr
225                 230                 235                 240
Pro Arg Ala Ile Leu Met Thr Ile Leu Tyr Val Met Lys Gln Arg Asn
                245                 250                 255
Leu Asp Lys Asp Pro Asn Leu Glu Leu Tyr Tyr Asp Lys Ile Val Arg
            260                 265                 270
Gly Leu Cys Arg Gly Val Ala Asp Ala Ala Thr Xaa Lys Ser Thr Asn
        275                 280                 285
Arg Ile Leu Asn Asp Ala Val Val Ile Asp Ile Leu Gly Arg Leu Leu
    290                 295                 300
Gln Ser His Trp Phe Gly Val Cys Arg Ser Lys Asn Gln Asp Glu Ile
305                 310                 315                 320
Ala Gln Asn Val Tyr Thr Leu Phe Ala Ser Ser Ser Thr Phe Thr Pro
```

```
                325                 330                 335
Val Pro Phe Ser Gln Ala Ala Asn Glu Asp Gln Gln Arg Thr Met Ile
            340                 345                 350
Ile Ser Thr Tyr Leu Leu Ala Gly Leu Pro Ala Asp Cys Ala His Leu
        355                 360                 365
Pro Tyr Ser Gly Arg Asp Leu Ala Pro Leu Leu Ser Asp Leu Val Thr
    370                 375                 380
Arg Ser Leu Thr Glu Cys Glu Pro Pro Thr His Leu Ala Phe Leu Arg
385                 390                 395                 400
His Ser Ala Leu Leu Val Asn Lys Phe Leu Pro Arg Pro Glu Leu Ser
                405                 410                 415
Val Ala Thr Asn Ile Leu Asn Lys Leu Phe Ser Ala Gly Ala Glu Glu
            420                 425                 430
Lys Lys Val Pro Ser Gly Thr Ile Lys Thr Ile Phe Trp Leu Ser Lys
        435                 440                 445
Ala Leu Ile Ile Arg Leu Ala Pro Thr Thr Thr Glu Ile Leu Thr Ser
    450                 455                 460
Leu Leu Ser Leu Leu Ser Ser His Asp Glu Leu Thr Ser Thr Thr Ala
465                 470                 475                 480
Ala Arg Gly Phe Ala Ile Leu Leu Lys Asp Asp Asp Val Leu Ser Ala
                485                 490                 495
Asp Asn Gly Ala Asn Ile Arg Leu Leu Ala Lys Gln Arg Val Phe Thr
            500                 505                 510
Thr Leu Thr Pro Leu Ile Ser Asn Arg Ile Arg Glu Val Asn Val Ala
        515                 520                 525
Gly Asp Asp Ser Ser Thr Pro Ala His Ile Lys Pro Ala His Leu Thr
    530                 535                 540
Ala Leu Ser Gly Ile Leu Ser Thr Ile Ser Pro Ser Leu Val Met Pro
545                 550                 555                 560
Glu Leu Pro Thr Leu Leu Ser Leu Leu Leu Ala Ser Trp Asp Leu Xaa
                565                 570                 575
Asn Ala Asp Ser Gln Gly Val Arg Ala Ala Thr Leu Glu Thr Leu Ala
            580                 585                 590
Arg Ile Ile Pro Glu Asn Gly Arg Arg Ile
        595                 600
```

<210> 25784
<211> 419
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (389)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25784

```
Gly Asn Ile Leu Gly Ser His Ala Asp Ser Cys Ala Ala Lys Arg Phe
1               5                   10                  15
Ser Gly Met Gln Leu Gln Pro Gln Lys His Tyr Asn Tyr Ile Leu Gly
            20                  25                  30
Ser Met Leu Ser Ile Lys Phe Leu Pro Leu His Pro Asp Val Asn Arg
        35                  40                  45
Thr Ser Lys Ser Ala Cys Met Pro Ser Ser Thr Pro Met Ser Ser Ser
    50                  55                  60
Thr Met Ala Ser Pro Ile Met Asp Thr Val Ser Glu Gln Pro Pro Pro
```

```
65                  70                  75                  80
Glu Glu Pro Ile Ser Asn Pro Asp His Ile Asp Gly Val Ala Tyr Leu
                85                  90                  95
Tyr Gly His Pro Leu Leu Asn Ser Leu Ser Pro Pro Leu His Gln Thr
            100                 105                 110
Ile Tyr Gln Ser Leu Gly Leu Asn Trp Thr Gln Ile Pro Leu Ser Ser
        115                 120                 125
Val Tyr Gly Thr Ser Glu Thr Tyr Pro Pro Pro Tyr Thr Arg Ser Pro
    130                 135                 140
Pro Ile Pro Lys Phe Leu Ala Ser Ile Lys Ser Asn Pro Lys Phe Val
145                 150                 155                 160
Gly Ser Ser Val Thr Met Pro Trp Lys Val Thr Ile Met Pro His Leu
                165                 170                 175
Asp Asp Leu Thr Glu Asp Ala Arg Gln Ala Gly Ala Cys Asn Thr Ile
            180                 185                 190
Phe Leu Arg Pro Glu Ala Asp Gly Arg Thr Ser Tyr Val Gly Thr Asn
        195                 200                 205
Thr Asp Cys Ile Gly Ile Arg Glu Ala Leu Leu Gln Asn Ser Thr Gly
    210                 215                 220
Glu Lys Ala Phe Arg Asn Lys Pro Ala Leu Ile Val Gly Gly Gly Gly
225                 230                 235                 240
Thr Ala Arg Thr Ala Ile Tyr Val Met Arg Lys Trp Leu Gly Cys Ser
                245                 250                 255
Lys Ile Tyr Val Val Asn Arg Asp Ala Ala Glu Val Ala Ala Ile Leu
            260                 265                 270
Glu Glu Asp Arg Gln Arg Asn Pro Ser Ser Asp Lys Ala Pro Leu Ile
        275                 280                 285
His Val Thr Asp Arg Thr Val Ala Ala Arg Leu Glu Pro Pro Ala Val
    290                 295                 300
Ile Val Ser Gly Ile Pro Asn Tyr Pro Pro Lys Thr Pro Gly Glu Leu
305                 310                 315                 320
Gln Ala Arg Glu Val Leu Gln Val Phe Leu Gly Glu Ala Pro Ala Thr
                325                 330                 335
Thr Ala Thr Pro Lys Gly Val Ile Leu Glu Met Cys Tyr His Pro Val
            340                 345                 350
Pro Trp Thr Glu Ile Ala Gln Leu Ala Ser Thr Ala Gly Trp Lys Val
        355                 360                 365
Ile Leu Gly Ser Glu Ala Leu Ile Trp Gln Gly Leu Glu Gln Ala Arg
    370                 375                 380
Leu Trp Thr Gly Xaa Asp Val Val Ala Glu Pro Gly Leu Val Glu Lys
385                 390                 395                 400
Val Lys Glu Val Val Gly Lys Leu Ile Ala Glu Arg Val Pro Ser Lys
                405                 410                 415
Ser Asn Leu
```

<210> 25785
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(37)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25785
Glu Xaa Trp Ser Gln Arg Glu Ser Ala Trp Asn Pro Glu Thr Asp Pro
1 5 10 15
Ile Glu Glu Ala Arg Leu Ala Ser Arg Leu Tyr Leu Val Phe Arg Pro
20 25 30
Val Gly Pro Ser Xaa Thr Glu Thr Gly Arg Gln Thr Gln Glu Arg Thr
35 40 45
Val Ser Glu Val Trp Lys Arg Val Arg Glu Leu Asp Tyr Thr Arg Pro
50 55 60
Gly Ala
65

<210> 25786
<211> 96
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25786
Leu Ser Leu Leu Gly Gln Ala Pro Gln Pro Arg Xaa Tyr Gln Ser Thr
1 5 10 15
Ala Val Pro Ala Pro Gly Pro Ala Arg Ser Thr Pro Pro Asn Gln Glu
20 25 30
Ser Pro Ser Thr Gln Pro Trp Arg Pro Ala Ala Gln Ser Pro Ser Thr
35 40 45
Gly Gln Gly Asp Ser Thr Ser Pro Glu Ser Arg Leu Trp Gly Leu Pro
50 55 60
Ser Leu Pro Gly Pro Pro Leu Glu Thr Leu Ala Ala Leu Pro Trp Leu
65 70 75 80
Gly Ala Pro Pro Ala Phe Trp Glu Gly Asn Trp Gly Ser Pro Arg Gln
85 90 95

<210> 25787
<211> 100
<212> PRT
<213> A.fumigatus

<400> 25787
Leu Ala Arg Ser Gly Leu Ala Gly Pro Gly Ala Ser Leu Ser Ala Gly
1 5 10 15
Phe Ala Phe Gly Ile Pro Pro Ile Ile Lys Tyr Gly Ser Lys Asp Leu
20 25 30
Gln Glu Arg Phe Leu Pro Asp Leu Leu Thr Gly Arg Lys Arg Gly Cys
35 40 45
Ile Ala Ile Thr Glu Pro Glu Ala Gly Ser Asp Val Ala Asn Ile Thr
50 55 60
Thr Thr Ala Thr Lys Thr Pro Asp Gly Lys Tyr Tyr Ile Ile Asn Gly
65 70 75 80
Thr Lys Lys Trp Tyr Leu Leu Glu Asp Ile Leu Gln Leu Met Glu Val
85 90 95
Ser Asn Thr His
100

<210> 25788
<211> 136
<212> PRT
<213> A.fumigatus

<400> 25788
Ser Val Glu Arg Ser Tyr Leu Asn Leu Asn Gln Asp Gln Leu Asp Leu
1 5 10 15
Asp Thr Leu Ser Ser Gln Arg Thr Met Ala Glu Val Ser Pro Asn Pro
20 25 30
Ile Pro Phe Ser Glu Pro Pro Tyr Leu Arg Gly Leu Pro Ser Pro Tyr
35 40 45
Tyr Thr Ala Ser His Arg Arg Phe Gln Lys Ala Cys Arg Ala Phe Leu
50 55 60
Trp Glu His Leu Leu Ser His Ala Met Asp Trp Glu Lys Ala Gly Thr
65 70 75 80
Val Pro Glu His Val Phe Asn Asp Phe Cys Lys His Asn Met Leu Leu
85 90 95
Pro Asn Leu Pro Ala Pro Leu Pro Val Asp Trp Leu Lys Lys Leu Gly
100 105 110
Ile His Asp Ile Leu Gly Val Lys Val Glu Glu Trp Asp Tyr Leu His
115 120 125
Thr Gly Ile Tyr Cys Asp Glu Val
130 135

<210> 25789
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25789
Ser Ile Leu Ile Val Cys Met Val Gly Ala Ala Gly Cys Trp Met Trp
1 5 10 15
Val Gln Val Glu Thr Pro Glu Trp Ile Gln Glu Val Glu Pro Arg Tyr
20 25 30
Ala Ser Val Asn Val Gln Leu Thr Phe Ile Ala Leu Trp Thr Arg Gln
35 40 45
Ser Phe Gly Gln Gly Phe Gln Leu Ala Ile Arg Arg Tyr Ile Ala Pro
50 55 60

<210> 25790
<211> 164
<212> PRT
<213> A.fumigatus

<400> 25790
Leu Leu Asn Ser Ser Ala Ile Leu Leu Gln Val Gln Ala Ala Leu Ile
1 5 10 15
Val Gln Pro Thr Ala Thr Pro Gln Gln Ile Leu Val Gly Thr Gln Ile
20 25 30
His Tyr Ser Leu Gln Ala Ile Ser Leu Ala Ala Phe Leu Thr Ala Phe
35 40 45
Thr Ile Leu Glu Ile Asn Lys Gly Asp His Pro Arg Leu Thr Ser Leu
50 55 60
His Gly Ile Leu Gly Leu Ile Thr Tyr Ile Cys Ile Ile Leu Gln Ala

65 70 75 80
Leu Leu Gly Leu Val Gln Tyr Phe Phe Pro Val Lys Ile Leu Gly Ser
85 90 95
Ala Asp Ala Gly Lys Arg Leu Tyr Lys Tyr His Arg His Phe Gly Tyr
100 105 110
Leu Leu Leu Val Leu Glu Leu Ala Thr Val Ser Ala Ala Thr Gln Thr
115 120 125
Thr Tyr Asn Val Ala Val Leu His Ile Pro Leu Trp Gly Val Leu Val
130 135 140
Ala Ala Val Leu Ile Val Ala Gly Val Gly Ala Arg Ile Lys Lys His
145 150 155 160
Lys Leu Gly Phe

<210> 25791
<211> 96
<212> PRT
<213> A.fumigatus

<400> 25791
Thr Gln Pro Thr Tyr Tyr Phe Lys Leu Gln Ala Ser Tyr His Gln Thr
1 5 10 15
Ser Gly Trp Ile Ser Asn Leu Ser Ser Ile Thr His Ile Ser Thr Ser
20 25 30
Lys Thr Phe Trp Lys Thr Leu Thr Asp Phe Tyr Ser Asn Ile Ile Leu
35 40 45
Met Ala Ser Ala Thr Gly Val Pro Gln Glu His Pro Gln Thr Ile Glu
50 55 60
Ala Arg Glu Asp Glu Pro Leu Leu Gly Arg Pro Gly Ala Val Thr Gln
65 70 75 80
Arg Glu Ser Asp Pro Ile Tyr Arg Asn Leu Ile Lys Gly Arg Arg Cys
85 90 95

<210> 25792
<211> 291
<212> PRT
<213> A.fumigatus

<400> 25792
Ile Ala Cys Pro Ser Ser Pro Val Val Lys Thr Asn Val Gly Gly Ser
1 5 10 15
Leu Leu Met Gly Phe Phe Leu Glu Asp Lys Asn Leu Phe Arg Glu Glu
20 25 30
Trp Ser Gln Pro Pro Pro Arg Asn Pro Ser Glu Asp Ser Asp Ala Ala
35 40 45
Arg Gln Tyr Ala Gln Asn His Lys Ser Val Lys Lys Thr Ile Pro Leu
50 55 60
Tyr Ile Gly Leu Thr Thr Gly Phe Cys Gly Ser Phe Thr Ser Phe Ser
65 70 75 80
Ser Phe Ile Arg Asp Val Phe Leu Ala Leu Thr Asn Asp Leu Pro Asp
85 90 95
Pro Ser Val Ser Ser Ile Thr Ser Arg Asn Gly Gly Tyr Ser Phe Met
100 105 110
Ala Leu Leu Ala Val Leu Leu Thr Thr Val Ala Leu Ser Leu Ser Ala
115 120 125
Leu Ile Cys Gly Ala His Leu Ala Leu Ala Phe Asp Gly Phe Thr Pro

```
    130                 135                 140
Ser Phe Pro Phe Arg Leu Thr Arg Arg Val Ile Asp Pro Leu Phe Val
145                 150                 155                 160
Leu Leu Gly Trp Gly Cys Trp Leu Gly Ala Val Phe Leu Ala Ile Trp
                165                 170                 175
Pro Pro Asp Arg Ser Gly Ser Ser Ile Asn Ala Pro Asp Thr Trp Arg
            180                 185                 190
Gly Arg Ala Val Phe Ala Ile Val Phe Ala Pro Leu Gly Cys Leu Leu
        195                 200                 205
Arg Tyr Tyr Leu Ser Val Tyr Leu Asn Pro Arg Val Pro Ala Phe Pro
    210                 215                 220
Leu Gly Thr Phe Thr Val Asn Ile Phe Gly Thr Ile Val Leu Ala Met
225                 230                 235                 240
Cys Phe Asp Leu Gln Arg Val Asp Gly Val Gly Thr Val Ile Gly Ala
                245                 250                 255
Asp Ala Arg Ser Ala Pro Tyr Ala Ile Leu Thr Ser Cys Gln Val Leu
            260                 265                 270
Gln Gly Val Thr Asp Gly Phe Cys Leu His Ser Ala Ala Gly Arg Asn
        275                 280                 285
Thr Pro Pro
    290
```

<210> 25793
<211> 157
<212> PRT
<213> A.fumigatus

<400> 25793

```
Cys Leu Pro Arg Pro Asp Lys Arg Pro Pro Arg Pro Leu Arg Leu Ile
1               5                   10                  15
Asn His Phe Pro Lys Trp Arg Leu Gln Leu His Gly Pro Pro Arg Arg
            20                  25                  30
Pro Pro His His Arg Arg Pro Gln Pro Leu Ser Thr His Leu Arg Arg
        35                  40                  45
Pro Pro Arg Pro Arg Leu Arg Arg Leu His Ser Ile Leu Pro Leu Pro
    50                  55                  60
Ser His Pro Pro Arg His Arg Pro Ala Leu Arg Pro Ala Gly Leu Gly
65                  70                  75                  80
Leu Leu Ala Trp Arg Arg Leu Pro Ser Tyr Leu Ala Thr Arg Ser Leu
                85                  90                  95
Arg Gln Gln His Gln Cys Pro Arg His Leu Ala Arg Ala Arg Arg Phe
            100                 105                 110
Arg His Arg Leu Arg Pro Ala Arg Leu Ser Pro Ala Val Leu Ser Phe
        115                 120                 125
Gly Leu Pro Gln Pro Ala Arg Ala Cys Val Pro Ala Gly Asp Phe Tyr
    130                 135                 140
Arg Glu Tyr Leu Arg His Asp Arg Ala Gly His Val Leu
145                 150                 155
```

<210> 25794
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25794

```
Val Arg Gly Cys Gly Ala Leu Ile Ser Arg Tyr Ser Gln Phe Glu Pro
```

```
1               5                   10                  15
Cys Arg Tyr Gly Ser Ala Cys Phe Ser Gly Gly Ala Pro His Glu Phe
            20                  25                  30
Val Gly Val Trp Leu Ile Ala Thr Pro Ser Gly Ile Ser Ala Pro Leu
        35                  40                  45
Ala His Ser Tyr Pro Ile Val Gly Lys Leu Thr Phe Ile Val Thr Asp
    50                  55                  60
His Ala Asp Ala Val Thr Ile Ile Pro Ala Leu Ile
65                  70                  75
```

<210> 25795
<211> 165
<212> PRT
<213> A.fumigatus

<400> 25795

```
Pro Asn Leu Thr Gln Leu Val Leu Tyr Ala Ala Leu His Ser Leu Tyr
1               5                   10                  15
Asn Ile Tyr Leu His Ser Leu Ser Arg Phe Pro Gly Pro Lys Leu Trp
            20                  25                  30
Gln Thr Ser Tyr Ile Phe Arg His Ile Ala Ser Ile Arg Gly Thr Leu
        35                  40                  45
Asp Val Ser Ile Lys Ala Phe His Thr Glu Tyr Gly Pro Val Val Arg
    50                  55                  60
Tyr Ser Pro Asp Glu Leu Ser Phe Ile Ser Ala Glu Ala Trp Arg Asp
65                  70                  75                  80
Ile Tyr Gly Phe Arg Glu Asn Ala Leu Pro Lys Asp Pro Ser Leu Tyr
                85                  90                  95
Gly Leu Ile Gln Leu Ser Arg Asp Lys Ser Pro Ser Ile Phe Thr Ala
            100                 105                 110
Asp Gln Asp His His Pro Arg Val Arg Lys Ala Leu Ser Tyr Ala Phe
        115                 120                 125
Ser Glu Lys Ala Ile Arg Asp Gln Glu Pro Phe Val Lys His Tyr Val
    130                 135                 140
Asp Leu Leu Ile Gln Arg Leu Arg Gly Ile Ala Asp Ala Glu Asp Asn
145                 150                 155                 160
Arg Val Asp Ile Val
                165
```

<210> 25796
<211> 263
<212> PRT
<213> A.fumigatus

<400> 25796

```
Glu Glu Ser Thr Leu Thr Ser Leu Phe Thr Gln Ser Ser Arg Ile Pro
1               5                   10                  15
Arg Gln Met Ser Phe Leu Met Glu Ser Ser Ala Val Gly Gln Pro Ser
            20                  25                  30
Pro Leu Ser Phe Ser Asn Thr Leu Asn Ala Leu Leu Gly Ala Val Arg
        35                  40                  45
Thr Gln Phe Thr Thr Pro Gly Val Lys Arg Leu Thr His Asn Leu Ile
    50                  55                  60
Leu Arg Ser Ser Ser Tyr Met Pro Pro Cys Thr Val Cys Ile Thr Ser
65                  70                  75                  80
Thr Tyr Ile Leu Ser Leu Ala Ser Pro Ala Pro Asn Ser Gly Lys Pro
```

```
                85                  90                  95
Ala Thr Ser Ser Ala Thr Leu Pro Ala Ser Glu Ala Leu Ser Thr Tyr
            100                 105                 110
Leu Ser Arg His Ser Ile Pro Asn Thr Asp Arg Trp Ser Ala Ile His
        115                 120                 125
Pro Thr Asn Ser Pro Ser Ser Pro Arg Lys Arg Gly Gly Thr Ser Thr
    130                 135                 140
Gly Phe Ala Arg Thr Pro Phe Pro Arg Thr His Pro Tyr Thr Ala Ser
145                 150                 155                 160
Ser Ser Ser Leu Gly Ile Arg Ala Arg Ala Ser Ser Gln Gln Thr Arg
                165                 170                 175
Ile Ile Ile Arg Ala Ser Glu Arg Leu Ser Leu Thr Arg Ser Gln Arg
            180                 185                 190
Lys Arg Ser Ala Thr Arg Ser Leu Ser Ser Asn Thr Met Leu Thr Cys
        195                 200                 205
Leu Ser Ser Asp Cys Glu Ala Ser Pro Thr Gln Arg Ile Thr Gly Ser
    210                 215                 220
Ile Leu Cys Ser Gly Thr Thr Leu Pro Pro Leu Ile Leu Ser Ala Thr
225                 230                 235                 240
Trp Pro Leu Val Asp His Ser Thr Ala Ser Val Phe Tyr Gln Arg Ser
                245                 250                 255
Arg Arg Ile Arg Ala Lys Asn
            260
```

<210> 25797
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25797

```
Leu Thr Leu Leu Ser Ser Ser Cys Val Ile Leu Asp Pro Ile Tyr Ser
1               5                   10                  15
Val Asp Lys Ser Phe Ile Leu Ser His Leu Arg Val Trp Val Tyr Ser
            20                  25                  30
Val Asp Asn Trp Asn Tyr Asp Asp Trp Gly Arg Pro His Arg Ala Arg
        35                  40                  45
Gln Leu Gly Tyr Met Thr Pro Leu Asn Asn Leu His
    50                  55                  60
```

<210> 25798
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25798

```
Thr Leu Thr Leu Pro Lys Pro Leu Val Glu Phe Gly Asn Arg Pro Met
1               5                   10                  15
Ile Leu His Gln Val Glu Ser Leu Ala Ala Ala Gly Val Thr Asp Ile
            20                  25                  30
Val Leu Ala Val Asn Tyr Arg Pro Asp Val Met Val Ala Ala Leu Lys
        35                  40                  45
Lys Val His Arg Ser Leu Leu Leu His Gly Leu Ile Arg Ser Cys Gly
    50                  55                  60
```

<210> 25799
<211> 61

<212> PRT
<213> A.fumigatus

<400> 25799
Ser Ala Ile Val Ala Arg Ser Thr Lys Asn Asn Thr Thr Ser Glu Ile
1 5 10 15
Glu Phe Ser Val Glu Ser Glu Thr Leu Gly Thr Ala Gly Ser Pro Glu
20 25 30
Thr Gly Lys Lys Lys Phe Gly Ala Arg Lys Asn Ser Pro Leu Leu Pro
35 40 45
Phe Ser Thr Ser Asp Asn Asn Leu Gly Ile Thr Pro Leu
50 55 60

<210> 25800
<211> 185
<212> PRT
<213> A.fumigatus

<400> 25800
Thr Gly Gly Asn Gly Met Gly Ile Ser Pro Gln Ile Glu Gln Trp Val
1 5 10 15
Thr Leu Leu Ile Phe Gly Ala Leu Ala Arg Ala Pro Arg Asn Arg Met
20 25 30
Pro Gly Val Ser Gly Glu Gln Tyr Ala Val His Met Arg Asp Val Val
35 40 45
Met Ala Met Val Gly Leu Thr His Thr Met Asn Thr Arg Val Gly Lys
50 55 60
Asp Phe Val Arg Gly Val Ser Gly Gly Glu Arg Lys Arg Val Ser Ile
65 70 75 80
Ala Glu Ala Thr Leu Ser Gly Ser Pro Leu Gln Cys Trp Asp Asn Ser
85 90 95
Thr Arg Gly Leu Asp Ser Ala Asn Ala Leu Glu Phe Cys Lys Thr Leu
100 105 110
Asn Leu Met Thr Lys Tyr Ala Gly Ala Thr Val Ala Val Ala Ile Tyr
115 120 125
Gln Ala Ser Gln Ser Ala Tyr Asp Val Ser Ser Ile Ser Leu Pro Leu
130 135 140
Ser Ala Ala Leu Ala Leu Ile Arg Leu Leu Gly Ile Arg Gln Ser Asp
145 150 155 160
Cys Ser Val Arg Arg Lys Thr Asp Leu Leu Trp Thr His Arg Arg Ser
165 170 175
Gln Gly Ile Leu Tyr Gln His Gly Ile
180 185

<210> 25801
<211> 115
<212> PRT
<213> A.fumigatus

<400> 25801
Val Phe Asp Lys Val Thr Val Leu Tyr Glu Gly Arg Gln Ile Tyr Phe
1 5 10 15
Gly Arg Thr Asp Glu Ala Lys Glu Phe Phe Thr Asn Met Gly Phe Glu
20 25 30
Cys Pro Glu Arg Gln Thr Thr Ala Asp Phe Leu Thr Ser Leu Thr Ser
35 40 45

```
Pro Ala Glu Arg Val Val Lys Pro Gly Phe Glu Gly Lys Val Pro Gln
    50                  55                  60
Thr Pro Asp Glu Phe Val Arg Ala Trp Lys Ser Ser Glu Ala Tyr Ala
65                  70                  75                  80
Lys Leu Met Arg Glu Ile Glu Glu Tyr Asp Arg Glu Phe Pro Ile Gly
                85                  90                  95
Gly Glu Ser Leu Asn Gln Phe Ile Glu Ser Arg Arg Ala Met Gln Ala
            100                 105                 110
Lys Asn Gln
        115
```

<210> 25802
<211> 361
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (246),(341)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25802

```
Leu Tyr Tyr Gly Leu Gly Tyr Arg Lys Cys Phe Leu Gln Pro Ala Gly
1               5                   10                  15
Arg His Lys Gln Phe Leu Arg Ser Trp Cys Phe Ala Phe Leu Cys Arg
            20                  25                  30
Ala Ala Gln Arg Leu Phe Gln Cys Pro Arg Gly Glu Ser Asn Trp Leu
        35                  40                  45
Met Trp Asp Tyr His Gln Pro Ala Asp Cys Leu Gln Ile Leu Thr Leu
    50                  55                  60
Tyr Ala Gln Arg Pro Ile Val Glu Lys Gln Ala Arg Tyr Ala Met Tyr
65                  70                  75                  80
His Pro Phe Ala Glu Ala Ile Ala Ser Met Leu Cys Asp Met Pro Tyr
                85                  90                  95
Lys Ile Thr Asn Ala Ile Ile Phe Asn Leu Thr Leu Tyr Phe Met Thr
            100                 105                 110
Asn Leu Arg Arg Glu Pro Gly Ala Phe Phe Val Phe Leu Leu Phe Ser
        115                 120                 125
Phe Val Thr Thr Leu Thr Met Ser Met Leu Phe Arg Thr Met Ala Ala
    130                 135                 140
Ser Ser Arg Thr Leu Ser Gln Ala Leu Val Pro Ala Ala Ile Leu Ile
145                 150                 155                 160
Leu Gly Leu Val Ile Tyr Thr Gly Phe Thr Ile Pro Thr Arg Asn Met
                165                 170                 175
Leu Gly Trp Ser Arg Trp Met Asn Tyr Ile Asp Pro Ile Ala Tyr Gly
            180                 185                 190
Phe Glu Ser Leu Met Val Asn Glu Phe His Asn Arg Gln Val Leu Cys
        195                 200                 205
Pro Asp Ser Ala Phe Val Pro Ser Ser Gly Ala Tyr Asp Ser Gln Pro
    210                 215                 220
Leu Ala Tyr Arg Val Cys Ser Thr Val Gly Ser Val Ser Gly Ser Arg
225                 230                 235                 240
Tyr Val Gln Gly Asp Xaa Tyr Leu Asn Gln Ser Phe Gln Tyr Tyr Lys
                245                 250                 255
Ser His Gln Trp Arg Asn Leu Gly Ile Met Phe Gly Phe Met Phe Phe
            260                 265                 270
```

```
Phe Met Phe Thr Tyr Leu Thr Ala Thr Glu Tyr Ile Ser Glu Ser Lys
        275                 280                 285
Ser Lys Gly Glu Val Leu Leu Phe Arg Arg Gly His Ala Gln Pro Thr
    290                 295                 300
Gly Ser His Asp Val Glu Lys Ser Pro Glu Val Ser Ser Ala Ala Lys
305                 310                 315                 320
Thr Asp Glu Ala Ser Ser Lys Glu Ala Thr Gly Ala Ile Gln Arg Gln
                325                 330                 335
Glu Ala Ile Phe Xaa Met Glu Gly Cys Val Leu Arg Tyr Arg Leu Leu
            340                 345                 350
Pro Gln Arg Val Glu Gly Ser Ala Arg
        355                 360
```

<210> 25803
<211> 135
<212> PRT
<213> A.fumigatus

<400> 25803

```
Glu Lys Ser Lys Ser Thr Ile Gly Ser Ser Gln Leu Val Ala Ser Arg
1               5                   10                  15
Ser Thr Ser Leu Ser Ser Leu Ala Glu Pro Cys Arg Arg Arg Thr Ser
            20                  25                  30
Lys Ser Glu Ala Phe Ser Thr Gln Val Pro Cys Ala Lys Ser Leu Arg
        35                  40                  45
Arg Arg Val Lys Ser Pro Tyr Thr Ile Ser Val Trp Gln Gln Ile Glu
    50                  55                  60
Leu Cys Met Ile Arg Gly Phe Gln Arg Leu Lys Gly Asp Ser Ser Leu
65                  70                  75                  80
Thr Met Ser Gln Leu Ile Gly Asn Phe Ile Met Ala Leu Val Ile Gly
                85                  90                  95
Ser Val Phe Tyr Asn Leu Pro Asp Asp Thr Ser Ser Phe Tyr Ala Arg
            100                 105                 110
Gly Ala Leu Leu Phe Phe Ala Val Leu Leu Asn Ala Phe Ser Ser Ala
        115                 120                 125
Leu Glu Val Ser Gln Ile Gly
    130                 135
```

<210> 25804
<211> 213
<212> PRT
<213> A.fumigatus

<400> 25804

```
Arg Phe Asp Ser Ala Asn Ser Ser Asn Ile Ile Thr Lys Pro Val Met
1               5                   10                  15
Asp Arg Leu Phe Ser Lys Ser Thr Ser Pro Gln Pro Val Tyr Thr Phe
            20                  25                  30
Ala Leu Asp Ser Ser Gly Glu Thr Ile Thr Cys Ala Gly Arg Pro Ala
        35                  40                  45
Phe Gln Leu Ala Thr Gln Lys Ser Lys Pro His Leu Thr Val Ser Arg
    50                  55                  60
Leu Pro Pro Pro Gly Pro Trp Ser Pro Ala Pro Val Pro Val Gly Thr
65                  70                  75                  80
Cys Thr Val His Lys Phe Pro Ser Ser Lys Val Asp Ile Thr Leu His
                85                  90                  95
```

```
Gly Gln Glu Phe Met Leu Lys Arg Asp Leu Leu Lys Ser Asp Asn His
            100                 105                 110
His Phe Asp Tyr Pro Pro Leu Gly His Phe Lys Trp Lys Pro Asp Ala
        115                 120                 125
Trp Gly Gly Ser Lys Leu Glu Leu Phe Asp Ser Gly Arg Arg Leu Leu
    130                 135                 140
Ala Arg Tyr Asp Lys Lys Leu Ser Leu Thr Gly Lys Gly Gln Gln Ile
145                 150                 155                 160
Glu Val Phe Val Pro Gly Asp Glu Arg Phe Val Glu Met Val Ile Val
                165                 170                 175
Thr Ala Leu Ala Met Arg His Tyr Ile Glu Val Glu Asn Lys Asp Ile
            180                 185                 190
Gln Lys Val Thr Asp Ile Leu Glu Ser Ser Pro Arg Gly Trp Lys Asp
        195                 200                 205
Ala Arg Val Gly Tyr
    210
```

<210> 25805
<211> 73
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (41)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25805

```
Cys Leu Pro Val Thr Ile Pro Gly Asn Thr Cys Gly Gly Ser Ser His
1               5                   10                  15
Phe Leu Ser Gly Phe Pro Leu Lys Pro His Cys Ser Pro Val Thr Pro
            20                  25                  30
Gln Ile Ser Asn Pro Lys Ser Ile Xaa Tyr Ala Phe Pro Ala Thr Leu
        35                  40                  45
Leu Pro Thr Phe Val Pro Leu Gly Leu Ser Ile Lys Ile Arg Pro Pro
    50                  55                  60
Gly Pro Ile Ser Gly Lys Phe Thr Leu
65                  70
```

<210> 25806
<211> 412
<212> PRT
<213> A.fumigatus

<400> 25806

```
Val Leu Ser Tyr Thr Gly Leu Trp Ser Ser Leu Pro Arg Leu Ala Leu
1               5                   10                  15
Phe Gly Gly Leu Tyr Tyr Gly Phe Glu Trp Phe Leu Leu Val Arg Trp
            20                  25                  30
Ser Ala Thr Ile Pro Val Leu Glu Phe Pro Ala Asp Leu Leu Phe Tyr
        35                  40                  45
Asn Phe Ala Met Pro Leu Ala Ile Arg Ser Ile Lys Pro Ser Asp Gly
    50                  55                  60
Leu His Lys Leu Tyr Asn Trp Trp Phe His Lys Cys Ala Arg Phe Leu
65                  70                  75                  80
Arg Leu Ser Ser Phe Phe Phe Gly Glu Arg His Thr Asp Glu Glu Gly
```

```
                85                  90                  95
Tyr His Val Arg Arg Thr Trp Phe Asp Leu Leu Ser Gly Lys Lys Gly
            100                 105                 110
Asp Thr Glu His Pro Ile Val Gly Glu Pro Glu Arg Arg Arg Ala Asp
        115                 120                 125
Glu Lys Gln Leu Ala Ala Tyr Phe Val Arg Asp Gly Lys Phe Val Arg
    130                 135                 140
Ala Pro Ala Ser Asp Gln Val Arg Ile Pro Lys Gly Lys Pro Val Phe
145                 150                 155                 160
Leu Glu Val Thr Asp Asn Asn Glu Arg Val Asp Gly Ala Pro Asp Pro
                165                 170                 175
Asp Glu Gly Leu His Gly Arg Ala Asn Asp Met Phe Thr Lys Val Tyr
            180                 185                 190
Ile Pro Pro Ser Phe Arg Thr Arg Ile Ala Ala Phe Ile Phe Leu Ile
        195                 200                 205
Trp Val Phe Ala Ala Thr Thr Gly Val Gly Thr Thr Ile Ile Pro Leu
    210                 215                 220
Val Ile Gly Arg Lys Ile Met Leu Ala Cys Phe Pro Asp Arg Pro Leu
225                 230                 235                 240
Asn Asp Ile Tyr Ala Phe Ser Leu Gly Ile Cys Ile Val Gly Ser Val
                245                 250                 255
Ala Tyr Leu Met Phe Tyr Cys Arg Thr Phe Leu Ala Thr Ile Gln Asp
            260                 265                 270
Arg Leu Arg Pro Tyr Leu Arg Ser Pro Gln Gln Ala Leu Leu Gly Phe
        275                 280                 285
Gly Asn Ala Ala Leu Ser Gly Leu Arg Leu Ala Tyr Ile Val Leu Ala
    290                 295                 300
Phe Ser Val Leu Leu Pro Ser Leu Phe Ala Leu Val Met Glu Leu Tyr
305                 310                 315                 320
Val Ile Val Pro Val His Thr Tyr Leu Gly Gly Thr Arg Ala His Ile
                325                 330                 335
Ile His Phe Val Gln Asn Trp Thr Leu Gly Val Leu Tyr Val Gln Met
            340                 345                 350
Ala Ile Lys Phe Ala Leu Trp His Ser Thr Ser Arg Pro Ala Ala Ala
        355                 360                 365
Leu Asn Gly Val Phe Arg Asn Gly Trp Leu Lys Thr Asn Val Arg Leu
    370                 375                 380
Ala Thr Arg Ala Asn Asn Ala Phe Leu Ser Gln Ser Leu Ala Thr Leu
385                 390                 395                 400
Ala Val Ala Pro Pro Thr Phe Phe Arg Gly Ser His
                405                 410
```

<210> 25807
<211> 171
<212> PRT
<213> A.fumigatus

<400> 25807

```
Gln Arg Ala Phe Leu Ala Arg Thr Thr Leu Lys Met Pro Ser Asp Asp
1               5                   10                  15
Asp Leu Lys Ala His Ala Ala Ser Asn Gln Asp Phe Tyr Ala Leu Leu
            20                  25                  30
Asp Ile Pro Pro Ala Ala Ser Glu Ser Glu Ile Arg Arg Ala Tyr Arg
        35                  40                  45
Arg Thr Ala Leu Lys Tyr His Pro Asp Lys Ile Ala Asn Pro Thr Gln
    50                  55                  60
```

```
Thr Asp Ile Asp Lys Phe His Leu Leu Gln Ile Ala Tyr Asp Val Leu
65                  70                  75                  80
Ser Asp Pro Ser Ile Arg Gln Leu Tyr Asp Asn Ala Arg Glu Ala Arg
                85                  90                  95
Glu Arg Lys Lys Arg Glu Leu Glu Met Met Asp Ala Ala Lys Arg Lys
            100                 105                 110
Met Lys Glu Asp Leu Glu Ala Arg Glu Arg Ala Gly Ala Val Ala Met
        115                 120                 125
Gly Gly Ala Gln Arg Gly Val Lys Arg Thr Trp Met Ser Ala Gly Met
    130                 135                 140
Ala Gly Ala Asp Asp Asp Asp Asp Glu Phe Phe Gly Arg Thr Leu Asn
145                 150                 155                 160
Val Leu Tyr Arg His Ala Gly Ile Thr His Pro
                165                 170
```

<210> 25808
<211> 246
<212> PRT
<213> A.fumigatus

```
<400> 25808
His Glu Gln Gly Arg His Ile Gln Cys Arg Tyr His Thr Ala Ser Leu
1               5                   10                  15
Pro Glu Pro Trp Gly Arg Pro Ile Tyr Leu His Val Cys Leu Phe Ala
            20                  25                  30
Pro His Ala His Ser His Ser Pro Thr Leu Thr Glu Pro Ser Tyr Arg
        35                  40                  45
Gln Asn Pro Thr Val Arg Gln Ser Val Asp Thr Ser Gly Asn Leu Thr
    50                  55                  60
Thr Val Asn Thr Ser Gln Ala Ala Lys Val His Thr Tyr Leu Leu Pro
65                  70                  75                  80
Phe Asp Ala Pro Val Pro Thr Lys Pro Arg Glu Asn Leu Ala Pro Ile
                85                  90                  95
His Thr Leu Asp Pro Thr Leu Arg Glu Thr Ile Ala Leu Val Glu Asp
            100                 105                 110
Leu Phe Lys Glu Arg Pro Ala Trp Thr Arg Arg Gly Leu Arg Asn Asn
        115                 120                 125
Leu Lys Thr Pro Glu Gln Arg Tyr Ala Leu Arg His Ala Val Pro Tyr
    130                 135                 140
Val Gly Tyr Ile Phe Arg Ser Gly Pro Trp Arg Asp Ala Ile Ile Lys
145                 150                 155                 160
Phe Gly His Asp Pro Arg Thr Ser Pro Ala Tyr Arg Ile Tyr Gln Thr
                165                 170                 175
Val Met Phe Arg Ile Leu Ser Gly Thr Ser Glu Leu Ala Arg Asp Ala
            180                 185                 190
Gly Ser Gly Arg Arg His Thr Ile Pro Arg Pro Asn Glu Val Pro Thr
        195                 200                 205
Gly Thr Asp Ala Phe Thr Pro Leu Pro Thr Asp Thr His Leu Phe Thr
    210                 215                 220
Gly Thr Pro Pro Leu Pro Pro Glu Gly Arg Met Trp Met Phe Cys Asp
225                 230                 235                 240
Ile Thr Asp Pro Leu Leu
                245
```

<210> 25809
<211> 204

<212> PRT
<213> A.fumigatus

<400> 25809
Pro Ser Gln Val Thr Val Arg Thr Gln Pro Ser Asp Asn Gln Ser Thr
1 5 10 15
Pro Pro Ala Thr Ser Pro Pro Ser Thr Pro Pro Lys Pro Pro Lys Ser
20 25 30
Thr Pro Ile Tyr Cys Pro Ser Thr His Gln Cys Leu Pro Ser Pro Ala
35 40 45
Arg Ile Leu His Pro Ser Thr Pro Leu Ile Gln Pro Tyr Glu Lys Pro
50 55 60
Leu Pro Ser Ser Lys Thr Ser Ser Lys Ser Ala Gln Leu Gly Leu Ala
65 70 75 80
Ala Ala Phe Ala Thr Thr Ser Lys Pro Arg Asn Ser Ala Thr Pro Ser
85 90 95
Ala Thr Pro Cys Leu Met Ser Ala Thr Ser Ser Ala Gln Gly Pro Gly
100 105 110
Ala Thr Pro Ser Ser Ser Ser Ala Met Thr Arg Ala Pro Pro Pro Pro
115 120 125
Thr Ala Ser Thr Lys Pro Ser Cys Ser Ala Ser Tyr Pro Ala Pro Arg
130 135 140
Ser Ser Pro Ala Thr Pro Ala Ala Ala Asp Gly Thr Pro Ser His Asp
145 150 155 160
Pro Thr Arg Ser Pro Gln Ala Pro Thr Pro Ser Pro Leu Tyr Gln Gln
165 170 175
Thr His Thr Ser Ser Pro Ala Leu Arg Pro Ser His Gln Lys Ala Ala
180 185 190
Cys Gly Cys Ser Ala Thr Ser Pro Thr Arg Ser Cys
195 200

<210> 25810
<211> 271
<212> PRT
<213> A.fumigatus

<400> 25810
His Val Val Gly Leu Gln Met Val Pro Ser Ile Phe Pro Ser Ala Val
1 5 10 15
Gln Ile Glu Leu Leu Ser Arg Leu Phe His Arg Asp Leu Ser Asn Pro
20 25 30
Glu His Arg Thr Asn Leu His Leu His Tyr His Leu Thr Tyr Pro Gly
35 40 45
Gln Ala Ala Ser Gln Thr Asp Thr Ala Val Ser Ala Pro Glu Asp Gly
50 55 60
Ser Thr Val Pro Gln Thr Val Ser Phe Phe Glu Glu Asp Ser Ser Asn
65 70 75 80
Val Leu Phe Pro Lys Asp Pro Gln Val His Lys Pro Ile Thr Val Glu
85 90 95
Gln Met Leu Thr Lys Lys Leu Arg Trp Val Thr Leu Gly Gly Gln Tyr
100 105 110
Asp Trp Thr Ala Lys Glu Tyr Pro Ser Gly Pro Pro Pro Cys Ile Pro
115 120 125
Leu Leu Ile Leu Ala Lys Leu Leu Arg Thr Ala Phe Pro Gln Thr Lys
130 135 140
Ala Glu Ala Ala Ile Leu Asn Val Tyr Ser Pro Gly Asp Thr Leu Ser

```
145                 150                 155                 160
Pro His Arg Asp Val Ser Glu Glu Cys Asp Val Gly Leu Ile Ser Ile
                165                 170                 175
Ser Phe Gly Cys Asp Gly Leu Phe Leu Ile Ser His Asp Asp Gly Thr
            180                 185                 190
Asp Cys Glu Ile Ile Arg Leu Arg Ser Gly Asp Ala Val Tyr Met Asp
        195                 200                 205
Gly Thr Ser Arg Phe Ala Trp His Ala Val Pro Lys Ile Val Pro Gly
    210                 215                 220
Thr Cys Pro Asp Trp Leu Ala Asp Trp Pro Cys Lys Ser Glu Thr Pro
225                 230                 235                 240
Asp Lys Thr Ala Phe Gly Lys Trp Arg Gly Trp Met Ala Gly Lys Arg
                245                 250                 255
Val Asn Leu Asn Val Arg Gln Met Ser Ala Thr Asp Ser His Gly
            260                 265                 270
```

<210> 25811
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25811

```
Ile Gln Asn Ser Leu Asp Ser Ser Tyr Leu Arg Leu Pro Gly Pro Phe
1               5                   10                  15
Ser Glu Ala Ala Gly Ser Leu Phe Tyr Gly Pro Asp Ile Ala Ala Asp
            20                  25                  30
Pro Asp Phe Gly Glu Thr Leu Leu Arg Tyr Leu Thr Phe Ser Ser Tyr
        35                  40                  45
Gly Pro Asn Met Tyr Gly Arg Leu Ser Ala Gly Ser Tyr
    50                  55                  60
```

<210> 25812
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25812

```
Ser Cys Leu Phe Ser Tyr His Ala Asp Tyr Ser Arg His Ser His Asp
1               5                   10                  15
Cys Asn Ser Ser Asn Tyr Asn Tyr Ile Pro Asn Leu Gln Thr Leu Asp
            20                  25                  30
Leu Val Glu Pro Leu Arg Gly Arg Asp Leu Leu Ser Asp Ser Arg Thr
        35                  40                  45
Leu Pro Lys Thr Lys Ala Gly Phe Thr Glu Ile Thr Phe Tyr
    50                  55                  60
```

<210> 25813
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25813

```
Ala Val Phe Glu Phe Leu Ile Val Phe Val Ser Gly Phe Gly Phe Leu
1               5                   10                  15
Phe Asp Leu Leu Ala Phe Met Met Phe Ile Tyr Thr Tyr Ser Val Gln
            20                  25                  30
```

```
Thr Cys Trp Pro Asp Asp Thr Tyr Leu Val Phe Ala Lys Ala Ile Thr
        35                  40                  45
Ser Glu Leu Val Ser Asp Leu Thr Cys Gln Cys His Leu Ile Ser Pro
    50                  55                  60
Asn Val Phe Ser Pro Glu Ser Gly Ala Val Ser Leu
65                  70                  75
```

<210> 25814
<211> 159
<212> PRT
<213> A.fumigatus

<400> 25814

```
Glu His Pro Leu Ser Val Arg Leu Arg Tyr Pro Arg Leu Ser Leu Ala
1               5                   10                  15
His Ile Leu Leu Thr Val His Leu Gln Leu Ser Pro Ser Val Thr Met
            20                  25                  30
Pro Ser Met His Asp Arg Ile Arg Glu Asp Leu Ile Ile Lys Glu Arg
        35                  40                  45
Ala Leu Trp Thr Ala Leu Thr Ser Ala Asp Pro Gly Pro Ala Ile Glu
    50                  55                  60
Lys Leu Ser His Gln Glu Val Asn Met Ile Phe Pro Gln Thr Pro Ile
65                  70                  75                  80
Leu Thr Leu Glu Gly Glu Asn Lys Ile Gln Asp Ala Val Lys Pro Pro
                85                  90                  95
Phe His Arg Phe Asp Thr Tyr Ser Leu Asp Glu Val Arg Val Ile Ile
            100                 105                 110
Ile Asp Leu Met Ala Gly Thr Val Thr Tyr Arg Val Thr Ala Thr Arg
        115                 120                 125
Gly Asn Lys Thr Tyr Arg Ala Asn Gly Ser Thr Thr Trp Gln Gln Ala
    130                 135                 140
Ser Asp Gly Glu Trp Arg Ile Ile Cys His Gln Glu Thr Leu Val
145                 150                 155
```

<210> 25815
<211> 100
<212> PRT
<213> A.fumigatus

<400> 25815

```
Val Gly Gly Thr Val Gln Thr Cys Ser Tyr Ser Leu Thr Gln Leu Leu
1               5                   10                  15
Ile Ser Arg Phe Val Asn Gly Ile Gly Thr Gly Ile Met Ser Thr Leu
            20                  25                  30
Val Pro Val Tyr Gln Ala Glu Leu Cys Glu Ala Arg Lys Arg Gly Lys
        35                  40                  45
Leu Val Cys Ser Leu Pro Leu Ala Val Gly Val Gly Ile Val Leu Ala
    50                  55                  60
Tyr Trp Phe Asp Tyr Gly Met Thr Tyr Val Thr Gly Ser Ile Ser Trp
65                  70                  75                  80
Arg Leu Pro Ile Ala Cys Gln Glu Ile Phe Ala Val Leu Val Val Ile
                85                  90                  95
Leu Val Ala Gly
            100
```

<210> 25816

<211> 78
<212> PRT
<213> A.fumigatus

<400> 25816
Leu Cys Ala Phe Pro Gly Tyr Asn Gln Gly Val Phe Ser Gly Ile Ile
1 5 10 15
Asn Asn Glu Asp Phe Leu Asn Ile Val Asn His Pro Arg Ala Gly Met
20 25 30
Leu Gly Phe Leu Val Ser Ile Tyr Asn Leu Gly Cys Phe Phe Gly Thr
35 40 45
Phe Ile Ala Phe Met Thr Thr Asp Arg Leu Gly Phe Gln Lys Ser Met
50 55 60
Trp Phe Ser Met Val Tyr Val Val Val Ser Ala Ala Arg Glu
65 70 75

<210> 25817
<211> 161
<212> PRT
<213> A.fumigatus

<400> 25817
Leu Trp Tyr Asp Leu Cys Tyr Gly Val Asn Gln Leu Ala Ile Thr Tyr
1 5 10 15
Arg Leu Ser Gly Asn Ile Arg Arg Ala Cys Ser His Phe Ser Cys Trp
20 25 30
Val Ser Arg Pro Val Pro Cys Thr Thr Ala Leu Glu Phe Ile Leu Val
35 40 45
Arg Ser Asn Gly Cys Asp Arg Leu Pro Glu Ser Pro Arg Trp Leu Tyr
50 55 60
Arg Lys Gly Arg Asn Glu Glu Ala Leu Gln Val Leu Cys Glu Val Tyr
65 70 75 80
Asp Arg Ala Pro Asp His Pro Lys Val Leu Ala Glu Ser Glu Gly Ile
85 90 95
Leu Gln Ala Leu Glu Leu Glu Ser Ala Arg Gly Glu Tyr Arg Trp Ser
100 105 110
Gln Ile Phe Leu Lys Arg Asp Asp Leu Gln Thr Gly Arg Arg Val Leu
115 120 125
Met Ala Tyr Gly Leu Gln Phe Ile Asn Gln Met Gly Gly Thr Asn Ile
130 135 140
Ile Val Val Ser Asp Pro His Ala Arg Leu Gln Ala Val Arg Thr Asp
145 150 155 160
Lys

<210> 25818
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25818
Arg Leu His Leu Phe Gly Val Ala Asn Trp Leu Leu Val Ser Ser Asn
1 5 10 15
Arg Leu Gln Thr Cys Met Arg Val Thr Tyr Asn Asp Asp Ile Gly Thr
20 25 30
Ala His Leu Val Asp Glu Leu Glu Pro Val Ser His Lys Asn Pro Ser

```
        35                  40                  45
Thr Ser Leu Gln Ile Ile Ser Leu Lys Glu Asp Leu Arg Pro Ser Val
    50                  55                  60
Phe Ser Thr Arg Ala Phe Gln Leu Glu Cys Leu
65                  70                  75

<210> 25819
<211> 229
<212> PRT
<213> A.fumigatus

<400> 25819
Ser Val Ile Arg Ser Glu Arg Leu Asp Ser Val Gly Gln Lys Ala Arg
1               5                   10                  15
Leu Pro Arg Ser Val Gln Ala Leu Tyr Leu Arg Pro Leu Arg Arg Lys
            20                  25                  30
Pro Glu Phe Gly Leu Pro Val Cys Asp Leu Gln Leu Arg Ser Tyr Ser
        35                  40                  45
Val Arg Asn Leu Glu Phe Phe Ala Asp Phe Ala Leu Arg Ala Ala Tyr
    50                  55                  60
Tyr Leu Glu Leu Pro Val Ser Gly Pro Val Pro Leu Pro Arg Ile Val
65                  70                  75                  80
Glu Arg Trp Thr Phe Pro Arg Ser Asn Phe Val His Lys Lys Ser Gln
                85                  90                  95
Glu Asn Phe Glu Arg Ile Thr Leu Arg Arg Leu Ile Gln Ile Lys Asp
            100                 105                 110
Gly His Pro Gln Ala Val Gln Ala Trp Leu Ala Phe Leu Arg Lys His
        115                 120                 125
Ala Phe Tyr Gly Val Gly Met Lys Ala Asn Val Trp Asp His Glu Ser
    130                 135                 140
Leu Gly Met Ala Ser Ser Arg Tyr Thr Tyr Cys Leu Thr Lys Ile Val
145                 150                 155                 160
Ser Ser Leu Tyr Ala Tyr Gly Leu Leu Asn Leu Asp Val Ala Arg Asn
                165                 170                 175
Met Asp Glu Ser Leu Pro Asp Ile Glu Lys Ser Leu Glu Pro Tyr Leu
            180                 185                 190
Ser His Phe Gly Tyr Arg Ser Asp Gly Ser Asp Gln Ser Ala Val Phe
        195                 200                 205
Asp Leu Leu Glu Ser Glu Arg Phe Thr His Asn Lys Ser Pro Leu Thr
    210                 215                 220
Asp Ile Arg Lys Gly
225

<210> 25820
<211> 152
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (140),(142),(143)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25820
Pro Ile Ile Asp Ile Leu Gly Val Pro Asp Glu Thr Val Trp Glu Tyr
1               5                   10                  15
```

```
Gly Glu Ala Leu Arg Arg Met Ala Val Glu Lys Glu Leu His His Val
            20                  25                  30
Lys Phe Ile Arg Leu Phe Glu Leu Leu Glu His Pro Trp Ile Pro Leu
        35                  40                  45
Thr Ser Ala Glu Gln Ala Lys Ser Tyr Tyr Leu Ala His Ala Gln Cys
    50                  55                  60
Leu Arg Arg Glu Leu Met Tyr Arg Phe Glu Asp Arg Ser Phe Asp Ala
65                  70                  75                  80
Asp Ala Ala Ile Arg Ser Asp Asn Asp Thr Cys Leu Thr Tyr Arg Gly
                85                  90                  95
Tyr Ile Lys Phe Leu Thr Lys Asp Leu Ala Pro Gln Met Asp Thr Gln
            100                 105                 110
Tyr Thr Ser Lys Lys Ala Arg Ala Ala His Ile Ala Gln Ile Ala Arg
        115                 120                 125
Ser Met Ile Val Arg Gly Lys Met Phe Ala Ala Xaa Ser Xaa Xaa Glu
    130                 135                 140
Gln Thr Arg Ile Pro Gln Lys Val
145                 150
```

<210> 25821
<211> 214
<212> PRT
<213> A.fumigatus

<400> 25821

```
Gly Thr Arg Arg Asn Glu Ala Ser Leu Gln Gln Pro Leu Ser Glu Val
1               5                   10                  15
Asp Arg His Glu Gln Pro Ala Ala Ser Asp Asn Thr Gln Ser Gly Leu
            20                  25                  30
Asp Ile Pro Pro Val Thr Val Ser Thr Pro Gln Ser Ser Asp Asn Pro
        35                  40                  45
Leu Val Glu Ser Lys Glu Ala Val Pro Val Thr Phe Lys Asp Glu Gly
    50                  55                  60
Lys Gly Thr Lys Asp Asp Pro Ser His Leu Leu Ala Glu Ala Leu Glu
65                  70                  75                  80
Thr Thr Asn Gly Glu Glu Asn Ser Pro Ile Ser Glu Asp Glu Ala Thr
                85                  90                  95
Ala Ile Ala Val Leu Lys Val Ile Glu Arg Tyr Gly Val Asn Phe Glu
            100                 105                 110
Lys Thr Gly Glu Ser Trp Gln Gly Leu Thr Ser Phe Ile Pro Thr Val
        115                 120                 125
Val Glu Gln Val Lys Lys Arg Glu Ala Val Arg Met Ile Leu Pro Ala
    130                 135                 140
Phe Pro Phe Lys Ser Pro Asn Ala Arg Asp Lys Val Leu Gly Val Met
145                 150                 155                 160
Pro Asp Leu Gly Glu Glu Leu Ala Leu Tyr His Leu Asn Gly Leu Cys
                165                 170                 175
Glu Asn Ile Gly Arg Val Tyr Glu Pro Gly Ala Asp Val Tyr Ile Ser
            180                 185                 190
Ser Asp Gly Leu Val Tyr Asn Gly Lys Ser Leu Leu His Ser Pro Arg
        195                 200                 205
Phe His Arg Ala Asn Gln
    210
```

<210> 25822
<211> 244

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25822
Xaa Ser Leu His Arg Gly Ser Phe Gln Pro Arg Gly Glu Asp Gly Asn
1 5 10 15
Ile Pro Leu Leu Ala Leu Thr Ile Leu Ser Ser Ser Trp Thr Thr Gly
20 25 30
Ser Asn Ala Val Gly Ile Thr Asn Leu Val Ser Gly Thr Ala Ala Ala
35 40 45
Gly Val Thr Gly Pro Arg Glu Arg Glu Thr Val Ile Thr Gln Glu Ile
50 55 60
Pro Val Lys Val Leu His Glu Ser Ala Val Glu Gly Leu His Glu Pro
65 70 75 80
Arg Cys Arg Asp Pro Asp Val His Ile Ile Leu Pro Ser Leu Ala His
85 90 95
Leu Lys Ser Ile Ser Glu Arg Phe Ser Lys Leu Ala Gly Asp Ala Arg
100 105 110
Pro Ala Ala Ser Gly Gly Ile Val Ser Ser Thr Leu Thr Ser Pro Lys
115 120 125
Leu Glu Leu Ser Ala Asn Met His Gly Ser Leu Arg Leu Ala Ile Ala
130 135 140
Thr Asp Ala Leu Arg Ile Ser Ser Val Trp Ser Asp Leu Val Asn Pro
145 150 155 160
Pro Leu Asp Pro Ala Gly Met Ser Gln Arg Glu Ile Glu Gln Leu Pro
165 170 175
Ser Glu Arg Met Arg Ala Leu Gly Ser Asp Asp Glu Ala Gly Trp Ala
180 185 190
Lys Val Arg Ile Asp Ala Lys Asp Trp Ser Arg Val Leu Ser Ile Gly
195 200 205
Arg Leu Ser Pro Lys Val Val Ala Cys Glu Leu Tyr Tyr Gly Gly Cys
210 215 220
Leu Cys Leu Arg Leu Tyr Ala Cys Ala Asn Thr Pro Thr Arg Leu Ser
225 230 235 240
Arg Phe Tyr Pro

<210> 25823
<211> 81
<212> PRT
<213> A.fumigatus

<400> 25823
Thr Phe Cys Asn Lys Pro Cys Val Gly Ala Glu Tyr Pro Val Tyr Leu
1 5 10 15
Thr Lys Thr Pro Leu Leu Phe Thr Ile Gln Tyr Gly Asp Ala Leu Ser
20 25 30
Ile Trp Met Val Thr Gly Arg Ser Ala Asp Ser Asn Ala Thr Cys Cys
35 40 45
Lys Gly Tyr Ile Leu Ser Asp Glu Arg Asp Arg His Ile Ser Ser Tyr
50 55 60

Leu Trp Ile Pro Leu Lys Leu Met Leu Val Phe Glu Asn Ser Asp Ser
65 70 75 80
Pro

<210> 25824
<211> 73
<212> PRT
<213> A.fumigatus

<400> 25824
Ala Ala Met Val Ala Pro Arg His Asn Ala Tyr Ala Glu Glu Ser Ala
1 5 10 15
Glu Val Glu Val Leu Tyr Ala Asn Leu Glu Lys Leu Lys Leu Leu Thr
20 25 30
Lys Lys Ile Gln Gly Ser Leu Val Arg Leu Glu Thr Gly Gly Asn Val
35 40 45
Val Lys His Ala Ile Gly Pro Ile Tyr Ser Asn Thr Gln Ser Ser Leu
50 55 60
Gln Ser Gly Arg Thr Ala Leu Trp Leu
65 70

<210> 25825
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25825
His Cys Ser Val Gly Tyr Ile Asp Ile Tyr Ile Tyr Tyr Ile Ser Leu
1 5 10 15
Ser Ala Gln Lys Val Ser Arg Gln Met Thr Leu Ser His Gly Ile Arg
20 25 30
Ser Ser Glu Leu Leu Ala Cys Thr Leu Thr Asp Asp Lys Lys Ala Ser
35 40 45
Cys Thr Ser Val Ile Glu Ile Ser Ala Asp Ile Asp Ile Tyr Lys Ala
50 55 60
Gly Trp Val Leu Thr Ile
65 70

<210> 25826
<211> 62
<212> PRT
<213> A.fumigatus

<400> 25826
Gln Leu Tyr Leu Ser Asp Leu Cys Leu Leu Asn Ala Cys Arg Phe Ser
1 5 10 15
Phe Asn Ile Asn Thr Val Leu Phe Thr Ser Thr His Ala Asp Phe Trp
20 25 30
Glu Leu Ala Asn Leu Pro Tyr Asp Val Pro Ile Leu Gln Arg Leu Gly
35 40 45
Arg Pro His Leu Gln Arg Arg Arg Met Ala Leu His Ile His
50 55 60

<210> 25827
<211> 175

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (167)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25827
Asn Trp Phe Gln Asn Arg Arg Ala Lys Ala Lys Gln Gln Lys Arg Gln
1 5 10 15
Glu Glu Phe Glu Arg Met Gln Lys Ala Lys Ala Glu Ala Glu Glu Ala
20 25 30
Ala Arg Asn Lys Ala Asp Ser Ala Asp Asp Thr Ser Asp Ser Asn Gln
35 40 45
Ser Asp Ser Thr Thr Lys Glu Glu Thr Asp Lys Ala Asn Asp Thr Lys
50 55 60
Thr Ser Glu Ser Gly Gly Pro Gly Glu Gln Thr Lys Thr Ser Thr Ser
65 70 75 80
Ser Arg Ser Lys His Gln Lys Thr Arg Ser Glu Ser Ala Arg Glu Ala
85 90 95
Thr Phe Ala Ser Leu Gln Arg Ala Leu Asn Ala Ala Val Ala Ala Arg
100 105 110
Glu His Tyr Gly Ser Glu Cys Glu Gln Asp Arg Asn Asp Gly Asn Ser
115 120 125
Val Gly Gly Ser Ala Ser Pro Thr Thr Phe Pro Leu Ser Ala Arg Gly
130 135 140
Asn Asp His Asp Asp Ser Glu Ser Ala His Ser Ala Leu Asn Thr Pro
145 150 155 160
Phe Phe Gly Val Phe Thr Xaa Arg Arg Ala Lys Asp Ser Ser Thr
165 170 175

<210> 25828
<211> 179
<212> PRT
<213> A.fumigatus

<400> 25828
Glu Tyr Leu Leu Gly Ser Ala Ala Arg Gly Glu Lys His Leu Tyr Arg
1 5 10 15
Arg His Leu Pro Tyr Ser Thr Ile Leu Thr Phe Pro Asn Ser Ser Ala
20 25 30
Met Asn Tyr Leu His His Pro Tyr Ala Phe Gly Gly His Asn Ala Val
35 40 45
Gln Phe Asp Gln Ser Ile Ala Tyr Asp Pro Ala Met Ala His His Ala
50 55 60
Met Val His Pro Met Asp Gly Tyr Leu Tyr Pro His Pro Pro Tyr Glu
65 70 75 80
Met Val Asp Tyr Tyr His Gln Pro Ile Met Asp Tyr Glu Glu Tyr Ala
85 90 95
Glu Asn Leu Ser Arg Pro Arg Leu Thr Lys Glu Gln Val Glu Thr Leu
100 105 110
Glu Ala Gln Phe Gln Ala His Pro Lys Pro Ser Ser Asn Val Lys Arg
115 120 125
Gln Leu Ala Ala Gln Thr Asn Leu Ser Leu Pro Arg Val Ala Val Ser
130 135 140

```
Leu Ile Leu Arg Arg Met Gln Tyr Val Thr Cys Ala Asp Pro Gly Ile
145                 150                 155                 160
Glu Leu Val Pro Lys Pro Thr Ser Lys Gly Lys Ala Ala Lys Glu Thr
                165                 170                 175
Gly Gly Val
```

<210> 25829
<211> 332
<212> PRT
<213> A.fumigatus

<400> 25829

```
Thr Gly Asn Glu Tyr Asn Gly Arg Met Gly Leu Arg Ile Ser Ser Ile
1               5                  10                  15
Phe Val Ile Met Val Gly Ser Met Leu Gly Ala Val Phe Pro Val Phe
            20                  25                  30
Ala Arg Ser Phe Ser Thr Ser Lys Phe Leu Arg Arg Ala Phe Phe Val
        35                  40                  45
Ala Lys Tyr Phe Gly Ser Gly Val Ile Ile Ala Thr Ala Phe Ile His
    50                  55                  60
Leu Leu Gly Pro Ala Glu Glu Ala Leu Thr Asn Glu Cys Leu Thr Gly
65                  70                  75                  80
Pro Ile Thr Glu Tyr Ser Trp Val Glu Gly Ile Ile Leu Met Thr Ile
                85                  90                  95
Val Val Leu Phe Phe Val Glu Leu Met Val Met Arg Tyr Ala Arg Phe
            100                 105                 110
Gly His Gly His Leu Asp Asp Leu Gly His Asp Asp His Thr His Pro
        115                 120                 125
Ser Leu Asp Ala Pro Pro Ala Thr Val Glu Ser Lys Ser His Met Pro
    130                 135                 140
Gly Glu Asp His Leu Gly His Ser Arg Glu His Arg Asp Thr Glu Ser
145                 150                 155                 160
Gly Arg Lys Ala Ser Leu Ile Glu Glu Tyr Ser Ala Gln Leu Thr Ser
                165                 170                 175
Val Phe Ile Leu Glu Phe Gly Ile Ile Phe His Ser Ile Phe Ile Gly
            180                 185                 190
Leu Thr Leu Ala Val Ser Gly Glu Glu Phe Ile Thr Leu Tyr Ile Val
        195                 200                 205
Leu Val Phe His Gln Thr Phe Glu Gly Leu Gly Leu Gly Ser Arg Leu
    210                 215                 220
Ala Thr Ile Pro Trp Pro Asn Ser Lys Arg Phe Thr Pro Tyr Leu Leu
225                 230                 235                 240
Gly Ile Ala Tyr Gly Leu Ser Thr Pro Leu Ala Ile Ala Ile Gly Leu
                245                 250                 255
Gly Val Arg Asn Ser Tyr Pro Pro Glu Gly Tyr Thr Thr Leu Val Val
            260                 265                 270
Asn Gly Val Phe Asp Ser Ile Ser Ala Gly Ile Leu Ile Tyr Thr Ala
        275                 280                 285
Leu Val Glu Leu Met Ala His Glu Phe Met Phe Ser Pro Ser Met Arg
    290                 295                 300
Lys Ala Pro Ile Arg Thr Val Leu Ala Ala Phe Gly Leu Leu Cys Leu
305                 310                 315                 320
Gly Ala Leu Leu Met Ala Leu Leu Gly Lys Trp Ala
                325                 330
```

<210> 25830
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25830
Val Arg Leu Tyr Pro Leu Ser Gln Leu Cys Leu Asp Ser Asn Ser Thr
1 5 10 15
Ser Leu Phe Pro Ser Ser Thr Asp Gln Ala Gly Phe Glu Val Gln Glu
20 25 30
Ala Met His Ile Phe Asp Asp Ile Ser Ser Ala Val Ile Phe Met Asp
35 40 45
Gln Leu Val Arg Gln Gly Ser Thr Met Lys Tyr Met Lys Leu Pro Leu
50 55 60
Cys Pro Ile Glu Tyr Thr Thr Ala
65 70

<210> 25831
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25831
Glu Cys Ser Val Phe Ser Pro Asn His Glu Asn Gly Ile Leu Met Gly
1 5 10 15
Glu Ser Asn Thr Phe Lys Phe Tyr Ala Phe Ser Met Arg Thr Asp Ser
20 25 30
Lys Leu Thr Ile Asp Tyr Leu Gly Ile Ser Ala Ala Ile Leu Ile Phe
35 40 45
Asp Ala Asp Ala Ile Ala Gly Phe Glu Glu Ile Leu Val Cys Asp Met
50 55 60
Ser Arg Phe His Cys Ile Ser Trp Ser Lys Gln Ile His Glu
65 70 75

<210> 25832
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25832
Leu Ile Leu Ala Glu Tyr Asn Ser Phe Asp Asp Asp Pro Trp Ile Leu
1 5 10 15
Lys Leu Val Glu Tyr Thr Lys Gln Ala Ile Asp Asp Gln Arg Val Lys
20 25 30
Ile Leu Gly Ile Cys Tyr Gly His Gln Ile Ile Gly Arg Ala Leu Gly
35 40 45
Ala Lys Val Gly Arg Asn Asp Ala Gly Trp Glu Ile Ala Val Cys Asp
50 55 60
Val Asp Leu Thr Glu Gln Gly Lys Lys Leu Phe Gly Lys Asp Lys Leu
65 70 75 80
Val Cys His Leu Phe Leu
85

<210> 25833
<211> 64
<212> PRT

<213> A.fumigatus

<400> 25833
Pro Asp Leu Val Ser Ser Arg Ile Ser Ile Arg Leu Ala Leu Val Leu
1 5 10 15
Ser Ser Thr Cys Ala Ile Leu Leu Ala Asp Gly Pro Phe Glu Ser Arg
20 25 30
Gly Phe Phe Phe Tyr Phe Phe Phe Phe Phe Phe Phe Phe Ser Ile Ser
35 40 45
Asn Ser Phe Leu Gln Ser Thr Thr Leu Leu Thr Thr Thr Leu Gly Phe
50 55 60

<210> 25834
<211> 99
<212> PRT
<213> A.fumigatus

<400> 25834
Gln Gln Ile Gln Gln Met His Arg Asp Ile Val Phe Asp Tyr Pro Pro
1 5 10 15
Asn Val Val Pro Leu Gly Ser Ser Pro Arg Cys Ala Val Gln Gly Met
20 25 30
Tyr Arg Pro Gly His Phe Ile Thr Val Gln Gly His Pro Glu Phe Lys
35 40 45
Gln Asp Ile Val Ser Glu Ile Val Lys Leu Arg Met Ser Met Gly Ala
50 55 60
Phe Ser Lys Glu Gln Gly Glu Asp Ala Leu Ala Arg Ala Gly Lys Asp
65 70 75 80
His Asp Gly Ile Ala Ile Gly Val Ala Phe Leu Lys Phe Leu Leu Gly
85 90 95
Asp Ile Gln

<210> 25835
<211> 154
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14),(66)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25835
His Leu Gln Ser Ile Leu Leu Phe Pro Asp Cys Val Asn Xaa Asp Thr
1 5 10 15
Leu Asp Tyr Ala Tyr Ser Gly Thr Gln Asn Trp Ser Gly Ser Phe Arg
20 25 30
Pro Ala Asn Arg Cys Pro Ala Gly Met Lys Arg Ile Pro Gln Leu Arg
35 40 45
Phe Ser Val Arg Tyr Asp Leu Arg Lys Leu Leu Pro Asn Gly Trp Ser
50 55 60
Gly Xaa Pro Pro Leu Glu Leu Ala Cys Gly Ser Ser Tyr Cys Trp His
65 70 75 80
Gly Asp Phe Ile Asn Gly Trp Val Pro Glu Ala Ala Gln Asn Met Leu
85 90 95

```
Lys Ala Thr Asp Lys Arg Glu Phe Met Gln Ile Asp Gly Pro Leu Gly
            100                 105                 110
Gly Gly Lys Asp Gly Ser Lys Cys Gly Ala Lys Asn Ala His Asp Gln
        115                 120                 125
Asp Pro Asn His Gly Thr Ser Asp Tyr Glu Glu Ser Val Lys Met Met
    130                 135                 140
Ser Ser Lys Arg Ser Ile Gly Gln Arg Arg
145                 150
```

<210> 25836
<211> 136
<212> PRT
<213> A.fumigatus

<400> 25836

```
Ser Val Pro Val Trp Cys Pro Ser Ser Ser Val Thr Ser Leu Ala Lys
1               5                   10                  15
His Asn Ser Ser His Arg Pro Leu Glu Ser Val Tyr Ser Pro Asp Ser
            20                  25                  30
Ile Met Thr Ala Arg Tyr Ala Asp Val His Lys Asn Pro Gln Gly Pro
        35                  40                  45
Gly Asp Ala Arg Pro Thr Ala Met Gln Ile Ile His Asp Glu Gly Leu
    50                  55                  60
Glu Gly Lys Leu Ala Asp Ser Ser Ile Leu Ile Thr Gly Ala Ser Ser
65                  70                  75                  80
Gly Ile Gly Val Glu Thr Ala Lys Ala Leu Phe Thr Thr Gly Ala Thr
                85                  90                  95
Leu Tyr Leu Thr Ala Arg Asn Leu Pro Lys Ala Lys His Ala Leu Gly
            100                 105                 110
Asp Met Ala Ser Ser Pro Arg Val His Leu Leu Glu Leu Asp Leu Glu
        115                 120                 125
Ser Leu Ala Ser Val Arg Gly Leu
    130                 135
```

<210> 25837
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25837

```
Ile Ser Ser Thr Asp Asp Thr Ser Asp Gly Trp Phe Ser Glu Gln Ser
1               5                   10                  15
Asp Met Trp Pro Gly Gln Ala Met Asn Leu Lys Val Asn Gln Ile Leu
            20                  25                  30
His His Glu Lys Ser Lys Tyr Gln Asp Val Leu Val Phe Glu Ser Thr
        35                  40                  45
Asp Tyr Gly Thr Val Leu Val Leu Asp Asn Val Ile Gln Cys Thr Glu
    50                  55                  60
Arg Asp Glu Phe Ser Tyr Val Cys Pro Pro Ser Ala His Cys Ser Ser
65                  70                  75                  80
Gly Gly Phe
```

<210> 25838
<211> 123
<212> PRT

<213> A.fumigatus

<400> 25838
Thr Ser Arg Ser Thr Arg Ser Cys Thr Thr Arg Ser Pro Ser Thr Arg
1 5 10 15
Met Cys Leu Ser Ser Arg Ala Pro Thr Thr Ala Pro Phe Ser Phe Trp
20 25 30
Thr Thr Ser Ser Asn Ala Pro Ser Gly Met Ser Ser Arg Met Tyr Ala
35 40 45
Arg Pro Ala His Ile Val Arg Pro Ala Ala Ser Asn His Val Val Leu
50 55 60
Cys Tyr Cys Arg Tyr Gln Glu Met Ile Thr His Leu Ala Met Asn Ser
65 70 75 80
His Pro Asn Pro Lys Lys Val Leu Val Ile Gly Gly Gly Asp Gly Gly
85 90 95
Val Leu Arg Glu Val Val Met His Glu Ser Val Glu Asp Ala Ile Leu
100 105 110
Cys Asp Ile Asp Glu Val Ser Phe Tyr Leu Pro
115 120

<210> 25839
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25839
Met Val Ser Ile Ala Asp Leu Val Lys Ala Val Ile Arg Val Ser Lys
1 5 10 15
Lys Tyr Leu Pro Gly Met Ser Ile Gly Phe Gln His Pro Asn Val Lys
20 25 30
Val His Ile Gly Asp Arg Phe Gln Phe Leu Lys Gly Ala Gln Arg Thr
35 40 45
Asn Ser Asp Val Leu Ser Pro Trp Thr Ala Leu Asp Pro
50 55 60

<210> 25840
<211> 76
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8),(11),(30),(43)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25840
Leu Ser Arg Glu Arg Pro His Xaa Phe Gln Xaa Asp Leu Gln Asn Ile
1 5 10 15
Gly Ser Glu Met Ile Phe Ala Gly Phe Ser Gln Lys Cys Xaa Ser Ile
20 25 30
Arg Arg Pro Met Gln Val Thr Val Ser Gln Xaa Phe Ile Lys Pro Cys
35 40 45
Thr Gln Ser Val Arg Ser Lys Asn Leu Pro Phe Arg Ala Phe His Val
50 55 60
Ile Lys Arg Trp Val Tyr Ser Ile Ala Leu Phe Cys
65 70 75

<210> 25841
<211> 238
<212> PRT
<213> A.fumigatus

<400> 25841
Leu Arg Ile Arg Pro Pro Ser Arg Gly Glu Asp Arg Asp Leu Ile Pro
1 5 10 15
Thr Tyr Asn Ala Ser Gly Tyr Gly Asn Ile His Arg Gln Val Asp Asp
20 25 30
Gln Ser Asp Glu Ser Gln Phe Ser Gly Ile Phe Glu Arg Ala Val Glu
35 40 45
Thr Arg Asn Lys Gly Gln Leu His Ala Tyr Phe Trp Arg Asn Thr Thr
50 55 60
Ala Ser Pro Ile Pro Pro Ser Ile Asn Ser Val Leu Glu Val Phe Pro
65 70 75 80
Val Gln His His Asn Asn Thr Pro Arg Val Leu His Ile Asp Glu Gly
85 90 95
Asn Ala His His Gly Val Gly Gly Tyr Asn Ala Pro Gly Tyr Glu Lys
100 105 110
Lys Asp Asp Met Pro Ser Tyr Gly Asn Ala Ser Ala Gln His His Asp
115 120 125
Val Ser Val Lys Ser Ile Asp Val Gly Ser Ser Asp Ile Glu Ala His
130 135 140
Gly Asn Thr Asp Pro Ala Cys Thr Gly Gly Thr Tyr Asp Ala His His
145 150 155 160
Asp Val Glu Thr Ile Gly Ser His Thr Ser Glu Ser Leu Asn Ala Arg
165 170 175
Thr Pro Val Ala Gln Ala Tyr Val Gln Ala Val Glu Glu Pro Ala Lys
180 185 190
Lys Pro Thr Pro Thr Phe Ala Lys Gln Ser Asp Gly Gly Arg Arg Lys
195 200 205
Asn Gly Asn His Gly Gln Ser Trp Tyr Val Leu Val Leu Val Asn Pro
210 215 220
Phe Pro Pro Gln Trp Thr Ser Asn Asp Leu Tyr Arg Ile Cys
225 230 235

<210> 25842
<211> 397
<212> PRT
<213> A.fumigatus

<400> 25842
Ile His Asn Cys Gly Ser Val His Pro Leu Val Val Lys Thr Ala Thr
1 5 10 15
Ser Ser Arg Leu Thr Met Pro Val Ala Met Glu Thr Ser Thr Val Lys
20 25 30
Leu Met Thr Lys Ala Thr Ser Leu Asn Ser Leu Gly Ser Ser Lys Gly
35 40 45
Pro Leu Arg Leu Ala Thr Arg Val Ser Ser Met Leu Ile Ser Gly Glu
50 55 60
Ile Pro Leu Arg Leu Pro Phe Leu Leu Val Ser Ile Leu Phe Leu Lys
65 70 75 80
Tyr Ser Leu Ser Asn Ile Thr Thr Thr His Pro Gly Ser Tyr Thr Leu
85 90 95

```
Thr Lys Glu Met Arg Ile Met Ala Leu Ala Ala Thr Met Pro Leu Ala
            100                 105                 110
Met Lys Arg Lys Met Ile Cys Pro Ala Met Ala Thr Pro Leu Leu Ser
        115                 120                 125
Thr Thr Met Ser Gln Leu Ser Leu Ser Met Leu Ala Val Pro Ile Ser
    130                 135                 140
Lys Pro Met Gly Thr Gln Ile Leu Leu Ala Leu Val Ala His Met Met
145                 150                 155                 160
Leu Ile Thr Met Trp Arg Arg Ser Glu Ala Ile Arg Pro Lys Ala Ser
                165                 170                 175
Met Leu Ala Leu Pro Ser Leu Lys Pro Thr Ser Lys Leu Ser Lys Asn
            180                 185                 190
Leu Gln Arg Asn Gln Leu Leu Pro Leu Pro Asn Asn Arg Thr Glu Val
        195                 200                 205
Glu Glu Lys Met Ala Thr Met Ala Lys Ala Gly Met Ser Ser Phe Ser
    210                 215                 220
Ser Ile Pro Ser His His Ser Gly Leu Leu Met Thr Phe Ile Glu Tyr
225                 230                 235                 240
Ala Arg Ser Glu Pro Val His Ser Asp Leu Ser Gly Glu Lys Asp Glu
                245                 250                 255
Ser Ser Glu Thr Gln Ser Thr Ser Gln Arg Asn Ser Gly Asp Asn Thr
            260                 265                 270
Pro Pro Ser Ala Asn Ile Glu Ser Phe Ile Asp Pro Ala Leu Thr Glu
        275                 280                 285
Ser Thr Arg Asn Asn Val Pro Lys Ser Gly Ser Ala Asn Met Thr Ser
    290                 295                 300
His Thr Ala His Asn Ala Glu Lys Ala Tyr Gly Thr Pro Ala Asp Ser
305                 310                 315                 320
Gln Glu Ala Gln Leu Ala Tyr Pro Ser Ser Ser Gln Gly Val Pro Thr
                325                 330                 335
Ser Met Gln Asp Gln Ser Gln Glu Asp Ser Asn Gly Leu Ala Val Leu
            340                 345                 350
Asn Arg Pro Met Asn Asn Gln Ala His Gln Ser Pro Thr Met Gln Gln
        355                 360                 365
Ser Gln His Arg Ser Ser Ser Ser Asp Ala Ala Pro Asn Asn Leu Asp
    370                 375                 380
Pro Ser Leu Tyr Ser Ala Thr Gly Pro Glu Ser Pro Asn
385                 390                 395
```

<210> 25843
<211> 255
<212> PRT
<213> A.fumigatus

<400> 25843

```
Ala Thr Trp Leu Gly Ile Thr Ser Gly Pro Leu Cys Asn Gln Ser Val
1               5                   10                  15
His Ser Thr Val Cys Phe Val Tyr Ser Arg Leu His Ala Asp Arg Leu
            20                  25                  30
Ala Gly Glu Ala Leu Arg Ile Met Met Asn Ser Leu Lys Leu Leu Val
        35                  40                  45
Val Ser Pro Glu Ile Asn Pro Ser Asn Arg Lys Ala Arg Ser Ile Pro
    50                  55                  60
Val Leu Asn Pro Phe Asp Arg Tyr Gly Arg Val Phe Phe Phe Ser Trp
65                  70                  75                  80
Leu Gly Phe Met Val Ala Phe Leu Ser Trp Tyr Ala Phe Pro Pro Leu
```

```
                85                  90                  95
Val Arg Gln Trp Ser Pro Ile Arg Gln Ala Leu Gly Asn Val Ala Gln
            100                 105                 110
Leu Thr Glu Asn Gly Cys Leu Val Asn Gly Asp His Ser Gln Arg Ser
        115                 120                 125
Ser Tyr Asp Thr Ala Thr Ser Arg Lys Leu Glu His Cys Cys Ser Ser
    130                 135                 140
Gly Tyr Val Ser Ile Glu Arg Lys Val Leu Ser Glu Phe Asn His Ala
145                 150                 155                 160
Asp Glu Pro Arg Phe Leu Val Arg Phe Ile Ala Gly Pro Leu Cys Asp
                165                 170                 175
Arg Phe Gly Pro Arg Leu Val Phe Ile Gly Leu Leu Leu Cys Gly Ser
            180                 185                 190
Ile Pro Thr Ala Met Ala Gly Leu Val Thr Thr Pro Asn Gly Leu Ile
        195                 200                 205
Ala Leu Arg Phe Phe Val Gly Ile Leu Gly Gly Thr Phe Val Pro Cys
    210                 215                 220
Gln Val Trp Cys Thr Gly Phe Phe Asp Lys Asn Ile Val Gly Thr Ala
225                 230                 235                 240
Asn Ser Leu Ala Ala Gly Trp Gly Asn Ala Gly Gly Gly Ile Thr
                245                 250                 255
```

<210> 25844
<211> 234
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (45),(227),(233)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25844

```
Asp Ala Pro Gly Pro Gly Arg Ser Thr Ala Met Gly Leu Ser Asp Ile
1               5                   10                  15
Cys Pro Arg Ser Phe Val Met Pro Ala Ile Tyr Asp Ser Leu Val His
            20                  25                  30
Ser Gln Gly Leu Ala Pro His Lys Ala Trp Arg Val Xaa Tyr Ile Val
        35                  40                  45
Pro Phe Ile Ile Ile Val Val Leu Ala Leu Cys Met Leu Leu Ile Cys
    50                  55                  60
Glu Asp Thr Pro Thr Gly Lys Trp Ser Glu Arg His Ile Trp Met Lys
65                  70                  75                  80
Glu Asn Asn Glu Ser Gln Ala Asn Ile Val Asn Leu Met Ser Gly Ser
                85                  90                  95
Pro Ser Thr Arg Pro Ser Gly Pro Pro Ser Ile Asn Ile Ser Thr Pro
            100                 105                 110
Gln Ser Glu Lys Lys Gly Ala Gln Thr Pro Gln Met Val Asp Pro Glu
        115                 120                 125
Ala Gln Ala Val Gly Gln Val Asp Ile Leu Arg Ala Asp Thr Val Val
    130                 135                 140
Ala Pro Ser Arg Lys Glu Val Met Asn Val Leu Leu Ser Leu Ser Thr
145                 150                 155                 160
Ala Ala Val Ala Ile Pro Tyr Ala Cys Ser Phe Gly Ser Glu Leu Ala
                165                 170                 175
Ile Asn Ser Ile Leu Gly Glu Phe Tyr Ser Lys Asn Phe Pro Asp Met
```

```
            180                 185                 190
Ser Gln Thr Glu Ser Gly Arg Trp Ala Ala Met Phe Gly Leu Leu Asn
        195                 200                 205
Val Val Phe Arg Pro Ala Gly Gly Phe Ile Ala Val Phe Thr Thr Gly
    210                 215                 220
Val Glu Xaa Ser Ala Leu Ser Leu Xaa Leu
225                 230
```

<210> 25845
<211> 298
<212> PRT
<213> A.fumigatus

<400> 25845

```
Met Ser Trp Gly Gly Ala Val Ser Leu Val Phe Pro Asp Gly Phe Lys
1               5                   10                  15
Leu Ser Phe Ser Gly Asp Cys Arg Pro Ser Thr Asn Phe Ala Thr Ile
            20                  25                  30
Gly Arg Asp Ser Thr Val Leu Ile His Glu Ala Thr Phe Gln Asp Asp
        35                  40                  45
Met Ala Val Ser Ala Ile Ala Lys Lys His Ser Thr Thr Ser Glu Ala
    50                  55                  60
Leu Glu Val Gly Arg Met Met Gln Ala Arg Thr Val Val Leu Thr His
65                  70                  75                  80
Phe Ser Gln Arg Tyr Gln Lys Val Ala His Val Asp His Gly Ala Gly
                85                  90                  95
Ala Gly Thr Ala Lys Pro Glu Pro Glu Pro Lys Pro Ala Pro Met Thr
            100                 105                 110
Arg Val Asp Leu Asp Val Pro Asp Asp Glu Pro Glu Pro Ala Pro Glu
        115                 120                 125
Pro Val Pro Ser Thr Leu Thr Val Thr Pro Ala Glu Asn Glu Asn Lys
    130                 135                 140
Pro Pro Leu Gln Ala Pro Val Thr Ala Ala Phe Asp Tyr Met Arg Ile
145                 150                 155                 160
Arg Val Gly Asp Ile Pro Ile Ala Gln Ala Phe Ala Pro Ala Ile Glu
                165                 170                 175
Lys Leu Phe Asp Ile Leu Glu Arg Ala Ser Ala Val Glu Ala Asn Lys
            180                 185                 190
Gln Lys Lys Ile Arg Glu Ala Ala Asp Ala Leu Ala Lys Glu Lys Lys
        195                 200                 205
Gln Lys Gln Lys Lys Lys Gly Ala Ala Gly Ala Glu Pro Leu Ser Ser
    210                 215                 220
Ala Thr Pro Ala Ala Ala Thr Gly Glu Ala Met Asp Ile Asp Gln Gly
225                 230                 235                 240
Arg Ser Val Trp Ser Ala Ser Glu Ser Glu Asn Gly Trp Gly Ser Asn
                245                 250                 255
Asp Asp Glu Trp Met Asp Arg Phe Trp Arg Gly Lys His Ser Arg Ser
            260                 265                 270
Arg Ser His Ser Arg Ser Lys Ser Ala Ser Gly Arg Arg Ser Ser Pro
        275                 280                 285
Ser Ile Arg Thr Lys Ser Gly Asp Ala Val
    290                 295
```

<210> 25846
<211> 229
<212> PRT

<213> A.fumigatus

<400> 25846
Pro Ser Pro Pro Arg Lys Thr Lys Thr Asn His Pro Ser Lys Pro Pro
1 5 10 15
Ser Pro Pro Pro Leu Thr Thr Cys Ala Ser Val Ser Ala Thr Ser Pro
20 25 30
Ser Arg Arg Pro Ser Pro Pro Pro Ser Arg Ser Cys Ser Thr Ser Ser
35 40 45
Ser Ala Pro Leu Gln Ser Lys Gln Thr Ser Arg Arg Lys Ser Val Lys
50 55 60
Arg Leu Thr Pro Trp Gln Lys Arg Arg Ser Arg Ser Lys Arg Arg Arg
65 70 75 80
Gly Pro Leu Gly Leu Ser Arg Tyr Pro Leu Pro Leu Pro Pro Pro Leu
85 90 95
Pro Ala Arg Pro Trp Ile Leu Thr Arg Val Asp Leu Cys Gly Ala Leu
100 105 110
Ala Lys Ala Arg Met Asp Gly Ala Arg Thr Thr Thr Ser Gly Trp Ile
115 120 125
Gly Phe Gly Val Gly Ser Thr Val Gly Val Gly Val Ile Val Gly Val
130 135 140
Arg Ala Arg Ala Asp Gly Ala Arg Ala Arg Val Phe Gly Arg Arg Val
145 150 155 160
Val Met Leu Phe Arg Leu Glu Tyr Ser Met Ile Asp Gly Ser Pro Glu
165 170 175
Arg Ile His Ile Arg Thr Glu Leu Tyr Pro Trp Phe His Phe Ala Leu
180 185 190
Trp Val His Ala Phe Thr Gln Val Tyr Tyr Cys Trp Leu Leu Thr Ser
195 200 205
Gln Arg Leu Tyr Tyr Lys Leu Cys Leu Phe Ser Thr Thr Gly Gly Pro
210 215 220
Lys Asp His Met His
225

<210> 25847
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25847
Lys Ser Arg Glu Trp Ala Lys Val Ala Gly Lys Gly Gly Ile Gly Ile
1 5 10 15
Leu Glu Ala Gln Pro Glu Asp Ile Ala Leu Val Trp His Thr Ser Gly
20 25 30
Thr Thr Gly Arg Pro Lys Ala Glu Trp Leu Thr Thr Pro Glu Lys Lys
35 40 45
Ala Ile Ile Leu Ile Ala Ile Trp Glu Gln Val Arg Leu Thr His Lys
50 55 60
Asn Leu Val Thr Thr Met Ser Glu
65 70

<210> 25848
<211> 308
<212> PRT
<213> A.fumigatus

<400> 25848
Ser Ile Thr Glu Tyr Ile Arg Asp Thr Tyr Leu Leu Thr Pro Glu Asp
1 5 10 15
Arg Thr Tyr Leu Val Met Pro Leu Phe His Val His Gly Leu Leu Ala
20 25 30
Gly Leu Leu Ala Pro Leu Phe Ser Gly Gly Ser Val Ile Val Pro Leu
35 40 45
Lys Phe Ser Ala Ser Glu Phe Trp Gln Asp Phe Val Thr His Gln Ala
50 55 60
Asn Trp Tyr Thr Ala Val Pro Thr Ile His Gln Ile Leu Leu Lys Thr
65 70 75 80
Pro Leu Pro Asn Pro Ile Pro Arg Ile Arg Phe Ile Arg Ser Cys Ser
85 90 95
Ser Pro Leu Ser Pro Lys Thr Phe Glu Asp Leu Glu Arg Thr Phe Lys
100 105 110
Ala Pro Val Leu Glu Ala Tyr Ala Met Thr Glu Ala Ala His Gln Met
115 120 125
Thr Ser Asn Pro Leu Pro Pro Gly Arg Arg Arg Pro Gly Ser Val Gly
130 135 140
Ile Gly Gln Gly Val Glu Val Lys Ile Leu Asp Gln Ala Gly Glu Glu
145 150 155 160
Val Pro Gln Gly Lys Glu Gly Glu Ile Cys Val Arg Gly Glu Asn Val
165 170 175
Thr Lys Gly Tyr Leu Asn Asn Pro Ala Ala Asn Lys Ser Ser Phe Thr
180 185 190
Lys Asp Gly Phe Phe Arg Thr Gly Asp Gln Gly Lys Lys Asp Arg Asp
195 200 205
Gly Tyr Ile Ile Ile Thr Gly Arg Ile Lys Glu Leu Ile Asn Lys Gly
210 215 220
Gly Glu Lys Ile Ser Pro Ile Glu Leu Asp Asn Thr Leu Leu Ser His
225 230 235 240
Pro Gln Val Ala Glu Ala Val Cys Phe Ala Ile Pro Asp Glu Gly His
245 250 255
Tyr Gly Glu Asp Ile Gly Ala Ala Val Val Leu Lys Ser Ala Gly Ser
260 265 270
Ala Thr Glu Ala Asp Leu Lys Ala Trp Met Ala Gly Lys Leu Ala Lys
275 280 285
Phe Lys Thr Pro Lys Gln Val Phe Gln Cys Pro Leu Cys Pro Thr Tyr
290 295 300
Phe Pro Glu Gln
305

<210> 25849
<211> 179
<212> PRT
<213> A.fumigatus

<400> 25849
Thr Lys Arg Thr Tyr Leu Val Arg Thr Leu Gln Gly Ile Ala His His
1 5 10 15
Lys Ser Leu Arg Met Thr Phe Leu Ser Gly Ala Val Asn Val Cys Gly
20 25 30
Ala Gly Leu Val His Asp Pro Ala His Pro Lys Asp His Lys Thr Met
35 40 45
Tyr Gln Ile Ile Ser Ser Ala Val Val Asn Ser Pro Pro Pro Ser Tyr
50 55 60

```
Ile Ile Lys Leu Leu His Ser Ser His Lys Pro Leu Tyr Ile Pro Ala
65                  70                  75                  80
Asn Gly His Arg Ser Thr Pro Ser Gln Pro Thr Asp Thr Lys Glu Asp
                85                  90                  95
Met Met Glu Ile Phe Gln Thr Asp Val Thr Gly Gln Thr Arg Glu Tyr
            100                 105                 110
Arg Lys Leu Met Gly Arg Arg Asn Tyr Val Ala Ile Val Ala Tyr Asp
        115                 120                 125
Pro Glu Val Val Asn Thr Met Tyr Gly Gln Asn Met Ser His Gly Ser
    130                 135                 140
Gly Lys Leu Asn Leu Ala Val Asp Phe Met Val Gln Gly Asp Gly Thr
145                 150                 155                 160
Tyr Gly Asn Val Ile Lys Tyr Gly Pro Val Ile Val Pro Ser Leu Glu
                165                 170                 175
His Gly Lys
```

<210> 25850
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25850

```
Arg Met Thr Met Asn Leu Cys Leu Arg Arg Ala Gln Val Trp Val Ile
1               5                   10                  15
Pro Glu Thr Asn Glu Val Phe Thr Asn Tyr Glu Pro Tyr Leu Gln Arg
            20                  25                  30
Met Asp Phe Tyr Lys Gln Lys Arg Phe Ile Cys Glu Ile Thr Gly His
        35                  40                  45
Ser Gly Leu Thr Phe Phe Glu Ala Leu Arg Ser Glu Val Arg His Leu
    50                  55                  60
Ile Leu Val Gly Ser Val Phe
65                  70
```

<210> 25851
<211> 163
<212> PRT
<213> A.fumigatus

<400> 25851

```
Ile His Asp Leu Pro Gln Asp Gly Arg Val Phe Asp Leu Ala Gly Arg
1               5                   10                  15
Leu Cys Thr Gly Arg Ile Ile Pro Ser Asn Lys Thr Arg Arg Gly Gly
            20                  25                  30
Phe Ala Ser Gly Val Glu Lys Gly Arg Tyr Arg Lys Glu Ala Lys Glu
        35                  40                  45
Ser Cys Gly Glu Glu Lys Arg Arg Glu Arg Lys Arg Lys Ala Arg Gly
    50                  55                  60
Asp Glu Asp Ser Arg Gly Gly Gly Val Gly Gly Glu Glu Asn Glu Glu
65                  70                  75                  80
Leu Lys Ser Lys Arg Lys Glu Arg Arg Leu Pro Arg Pro Lys Glu Ala
                85                  90                  95
Thr Ala Glu Pro Ser Pro Ile Thr Phe Glu Asp His Cys Gly Lys Arg
            100                 105                 110
Pro Ser Ser Gln Glu Leu Gly Trp Ser Gly Arg Ala Ser Ser Glu Ala
        115                 120                 125
```

```
Tyr Asn Asn Gly Asp Trp Pro Arg Gly Gly Gly Gln Asp Pro Asp Lys
    130                 135                 140
Thr Phe Ser Val Gly Arg Arg Val Phe Ser Asn Val Lys Val Arg Tyr
145                 150                 155                 160
Gly Gln Gly
```

<210> 25852
<211> 183
<212> PRT
<213> A.fumigatus

<400> 25852

```
Pro Leu Phe Pro Gly Tyr Cys Gly Thr Thr Gln Ala His Cys Arg Ser
1               5                   10                  15
Pro Asp Cys Gln Leu Asp Phe Gly His Cys Asp Ala His Glu Thr Pro
            20                  25                  30
Glu Gly Pro Pro Val Glu Asp Ile Pro Arg Pro His Val Gly Ala Val
        35                  40                  45
Pro Tyr Gly Pro His Val Ile Arg Ser Cys Ala Arg Ser Gly Thr Ile
    50                  55                  60
Ala Leu Thr Tyr Asp Asp Gly Pro Asn Arg Tyr Thr Ala Asp Leu Leu
65                  70                  75                  80
Asp Leu Leu Asp Arg Tyr Asp Ala Lys Ala Thr Phe Phe Ile Ser Gly
                85                  90                  95
Ile Asn Asn Ser Lys Gly Pro Ile Asp His Pro Asp Leu Pro Trp Ala
            100                 105                 110
Ser Leu Ile Gln Arg Met Gln Arg Thr Lys His Gln Ile Ala Ser His
        115                 120                 125
Thr Trp Ser His Gln Asp Leu Ser Lys Val Thr Pro Glu Gln Arg Arg
    130                 135                 140
Gln Gln Ile Leu Lys Asn Glu Ala Ala Phe Arg Asn Val Leu Gly Lys
145                 150                 155                 160
Ile Pro Thr Tyr Met Arg Pro Pro Tyr Ser Ser Cys Leu Pro Glu Thr
                165                 170                 175
Gly Cys Leu Asn Asp Met Gly
            180
```

<210> 25853
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25853

```
Gln Trp Gln Leu Phe Asn Lys His Gln Ser Leu Leu Tyr Ser Ser Leu
1               5                   10                  15
Lys Ser Ser Met Pro Asp Pro Glu Ser Gln Val Met Thr Val Ile Tyr
            20                  25                  30
Gly His Asp Ser Lys Asn Ser Leu Ser Leu Lys Thr Tyr Thr Lys Gly
        35                  40                  45
Leu Asp Ser Gly Cys Val Lys Gly Gly Lys Leu Thr Ala Met Val Val
    50                  55                  60
Glu Asp Gly Gly Lys Gln Ser Ile Val Gln Val Arg Cys Arg Asp Arg
65                  70                  75                  80
Arg Lys Glu
```

<210> 25854
<211> 133
<212> PRT
<213> A.fumigatus

<400> 25854
Asp His Ala Leu Ala Gly Ala Leu Leu Gly Trp Arg Pro Gln His Arg
1 5 10 15
His Ile Arg Gln Asp Pro His Ile Pro Pro His Thr Pro Arg Tyr Pro
20 25 30
Thr Ala Ala Arg Arg Arg Thr Ser Pro Asn His His Arg Arg His Pro
35 40 45
Met Arg Tyr Arg His His Pro Gly His Arg Leu Ser Gln Arg Arg Pro
50 55 60
Ser Ala Lys Asn Ala Cys His Leu Arg Arg Pro Asp Arg His Arg Ser
65 70 75 80
Arg Ala Pro Ser Cys Ala Thr His Glu Pro Pro His Pro Pro Leu His
85 90 95
Pro Gln Leu Ala Leu Ser Pro Arg Asp Asp Leu Ala Asp Ala Ala Lys
100 105 110
Ser Val Val Phe Gly Thr Pro Asp Gly Ile Val His Gln Arg Asn Arg
115 120 125
Pro Leu Gly Val Arg
130

<210> 25855
<211> 255
<212> PRT
<213> A.fumigatus

<400> 25855
Asp Lys Thr Met Leu Trp Leu Gly Pro Cys Trp Val Gly Ala Leu Asn
1 5 10 15
Thr Asp Thr Phe Asp Lys Ile Pro Ile Ser Arg Leu Thr Pro His Asp
20 25 30
Ile Gln Gln Gln Pro Gly Ala Val Pro Ala Leu Ile Ile Ile Val Ala
35 40 45
Ile Leu Cys Gly Ile Val Ile Thr Gln Ala Ile Ala Phe Arg Asn Glu
50 55 60
Gly Arg Leu Pro Lys Met Leu Ala Ile Tyr Gly Val Leu Thr Ala Ile
65 70 75 80
Val Leu Ala Leu Leu Val Val Pro His Met Asn Leu Arg Ile His His
85 90 95
Tyr Ile Leu Ser Leu Leu Phe Leu Pro Gly Thr Thr Leu Gln Thr Arg
100 105 110
Pro Ser Leu Leu Tyr Ser Gly Leu Leu Met Gly Leu Phe Ile Asn Gly
115 120 125
Ile Ala Arg Trp Gly Phe Asp Ser Ile Leu Gln Thr Pro Ala Ala Leu
130 135 140
Leu Asp Gly Ala Gln Leu Gly Ser Ala Leu Pro Gln Ile Ser Thr Pro
145 150 155 160
Leu Val Val Ser Ala Gln Glu Ile Val Phe Thr Phe Leu Lys Asn Leu
165 170 175
Thr Ser Glu Ala Asp Gly Ile Ser Val Leu Val Asn Asp Val Glu Arg
180 185 190

```
Phe Arg Ala Phe Arg Ser Gly Asp Gly Ser Val Glu Ser Phe Asn Trp
        195                 200                 205
Thr Arg Arg Arg Ala Glu Glu Pro Glu Tyr Phe Arg Phe Gly Tyr Ile
    210                 215                 220
Lys Leu Asn Ala Leu Gly Gly Leu Trp Tyr Glu Asp Phe Thr Lys Pro
225                 230                 235                 240
Val Val Trp Asp Val Asp Gly Ser Trp Asn Arg Ser Ala Pro Thr
                245                 250                 255
```

<210> 25856
<211> 207
<212> PRT
<213> A.fumigatus

<400> 25856

```
Glu Thr Leu Ser Asn Ala Ser Ile His Asp Phe Ile Ile Leu Glu Tyr
1               5                   10                  15
Arg Asp Thr Ile Gly Gly Arg Ala Trp His Thr Asn Phe Gly Lys Asp
            20                  25                  30
Glu Asn Gly Asp Pro Tyr Val Val Glu Leu Gly Ala Asn Trp Val Cys
        35                  40                  45
Tyr Ser Ser Phe Tyr Val Glu Pro Thr Asn His Ser Asp Val Glu Gln
    50                  55                  60
Ile Gln Gly Ile Gly Thr Pro Asp Gly Pro Gln Asn Pro Ile Trp Thr
65                  70                  75                  80
Leu Ala Lys Glu Phe Asn Leu Lys Asn Thr Phe Ser Asp Tyr Asp Asn
                85                  90                  95
Val Ser Thr Tyr Asn Glu Asn Gly Tyr Ser Asp Tyr Ser His Leu Phe
            100                 105                 110
Asp Glu Phe Asp Ala Ala Asp Glu Ile Ala Asn Ala Ala Ala Gly Thr
        115                 120                 125
Ile Leu Leu Glu Asn Leu Leu Asp Gln Thr Ala Gln Thr Gly Leu Ala
    130                 135                 140
Leu Ala Gly Trp Lys Pro Lys Lys Thr Asp Met Glu Ala Gln Ala Val
145                 150                 155                 160
Glu Trp Trp Asn Trp Gly Lys Ser Ala Ser Thr Phe Asn Arg Asn Glu
                165                 170                 175
Ile Asn Ser Ala Asp Phe Glu Asp Thr Tyr Ser Pro Leu Glu Ser Ser
            180                 185                 190
Leu Val Phe Gly Tyr Ala Gly Ser Asn Leu Thr Trp Asn Gly Phe
        195                 200                 205
```

<210> 25857
<211> 75
<212> PRT
<213> A.fumigatus

<400> 25857

```
Ser Pro Ser Tyr Tyr Thr Val Leu Asp Pro Lys Ala Arg Leu Arg Met
1               5                   10                  15
Thr Val Pro Ala Leu Arg Phe Leu Cys Gly Leu Val Gly Pro Asn His
            20                  25                  30
Val Arg Arg Lys Arg Leu Ser Gln Cys Leu Leu Phe Leu Pro Ser His
        35                  40                  45
Gly Glu Arg Lys Ala Lys Ser Asn Ala Thr Ser Lys Leu Ala Gly Ala
    50                  55                  60
```

```
Ile Ile Val Ser Leu Val Ile Ile Leu Leu Leu
65                  70                  75

<210> 25858
<211> 86
<212> PRT
<213> A.fumigatus

<400> 25858
Glu Thr Thr Lys Ile Ile Leu Tyr Leu Lys Val Ala Lys Gln His Gln
1               5                   10                  15
Glu Gly Lys Thr Gly Lys Ile Ser Leu Pro Asp Asp Asp Pro Glu Ala
            20                  25                  30
Ile Asn Ile Met Val Gln His Leu Tyr Gly Gln Asn Tyr Glu Asp Thr
        35                  40                  45
Arg Pro Asp Leu Glu Asp Tyr Gly Glu Asp Arg Ala Leu Leu Asn Leu
    50                  55                  60
Lys Val Tyr Ala Ile Ala Asp Lys Tyr Asn Ile Thr Ser Leu Glu Glu
65                  70                  75                  80
Ser Ala Lys Ala Ala Phe
                85

<210> 25859
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25859
Lys Arg Pro Asn Pro Gly Leu Ile Val Pro Phe His Arg Tyr Leu Pro
1               5                   10                  15
Phe Ile Pro Ile Pro Ile Pro Ile Asn Gly Ser Pro Thr Ser Leu Ser
            20                  25                  30
Leu Ser Thr Gln Tyr Asn Ile Val Ile Met Val Lys Leu Ala Ile Leu
        35                  40                  45
Pro Leu Ala Val Leu Ala Ala Leu Ala Pro Phe Ala Ala Ala Asp Asn
    50                  55                  60
Cys Lys Thr Gly Leu Asn Tyr Cys Gly Tyr Asn Leu Leu Asn Ile Gly
65                  70                  75                  80
Met Gln Thr Phe His Ser Arg Pro Thr
                85

<210> 25860
<211> 96
<212> PRT
<213> A.fumigatus

<400> 25860
Leu Thr Gln Lys Tyr Ser Ser Arg Tyr Phe Ser Pro Cys Phe Leu Thr
1               5                   10                  15
Trp Ser Leu Asn Gln Ser Ser Thr Ile Gly Cys Phe His Lys Leu Glu
            20                  25                  30
Cys Leu Asp Leu Phe Asp His Leu Thr Val Asp Asn Arg Val Tyr Tyr
        35                  40                  45
Val Trp Val Asn His Cys Phe Glu Cys Lys Leu Thr Cys Pro Leu Ser
    50                  55                  60
Glu Ser Ser Tyr Phe Ala Ser Leu Ser Tyr Thr Thr Gly Val His Cys
```

```
65                  70                  75                  80
Tyr Arg Arg Trp Arg Glu Leu Glu Ser Lys Ser Tyr Pro Trp Val Leu
                85                  90                  95
```

<210> 25861
<211> 66
<212> PRT
<213> A.fumigatus

<400> 25861

```
Cys Val Pro Leu Lys Gln Arg Gly Trp Ser Asp Gln Ala Ser Ala Pro
1               5                   10                  15
Ser Tyr Asp Arg Ile Leu Ser Pro Thr Ala Ala Thr Asp Ala Thr Cys
            20                  25                  30
Ser Gln Thr Thr Tyr Asp Phe Ala Ala Ser Ser Ser Ala Val Ile Ser
        35                  40                  45
Arg Pro Cys Arg Arg Cys Arg Thr Arg Arg His Arg Arg Pro Ala Arg
    50                  55                  60
Ala Ser
65
```

<210> 25862
<211> 130
<212> PRT
<213> A.fumigatus

<400> 25862

```
Cys Pro Val Leu Thr Ile Asn Thr Pro Ser Ser Lys Ala Thr Ala Arg
1               5                   10                  15
Ala Arg Val Asn Thr Ser Arg Glu Asp Thr Pro Lys Val Ala Thr Asp
            20                  25                  30
Asn Ser Leu Thr Leu Ala Ser Asn Thr Ala Arg Ser Met Ala Asn Ser
        35                  40                  45
Met Val Ser Asn Thr Val Asn Thr Glu Ala Leu Val Thr Thr Thr Thr
    50                  55                  60
Ser Ser Ala Ile Thr Thr Arg Ile Ser Thr Ala Ser Thr Arg Arg Ala
65                  70                  75                  80
Asn Thr Ala Asn Met Ala Asn Thr Thr Thr Ser Met Val Asn Asn Thr
                85                  90                  95
Lys Ala Arg Gly His Thr Gly Ser Leu Gly Met Ser Pro Ala Pro Pro
            100                 105                 110
Leu Ser Ser His Ser His Lys Leu Pro Val Thr Ser Ala Asp Ile Phe
        115                 120                 125
Ser Leu
    130
```

<210> 25863
<211> 110
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (40)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25863
His Gln Leu Thr Phe Ser Leu Ser Ser Tyr Asn Asp Gln Asn Ala Pro
1 5 10 15
Gly Gly Ala Gln Glu Gly Glu Arg Arg Leu Arg Gly Ala Ile Ala Gly
20 25 30
Gly Leu Ala Gly Gly Phe Ala Xaa Pro Lys Thr Asp His Arg Ile Leu
35 40 45
Arg Thr Ile Gly Gly Ala Ile Met Gly Ser Val Leu Glu Asp Ala Val
50 55 60
Lys Lys His Lys His Lys Asp Gly Ser Ser Gly His Ser Asn Tyr Gly
65 70 75 80
Gly Ser Gln Tyr Gly Ser His Gln Gly Gly His Gly Ser Ser Ser Gly
85 90 95
Gly Gly Leu Met Asp Asn Leu Gly Gly Phe Phe Asn Lys Lys
100 105 110

<210> 25864
<211> 144
<212> PRT
<213> A.fumigatus

<400> 25864
Val Asn His Thr Leu Ser Pro Leu Glu Ser Ser Ile Leu Ser Thr Phe
1 5 10 15
Tyr Tyr Ser Asn Thr Ile Pro Asn Thr Ile Met Ser Gly Pro Tyr Asp
20 25 30
Gln Tyr Ser Gln Gln Gln Gly Tyr Gly Gln Gly Gln Gly Gln Tyr Gln
35 40 45
Gln Gly Gly Tyr Pro Gln Gly Gly Tyr Gly Gln Gln Pro Tyr Ser Ser
50 55 60
Gln Gln Tyr Gly Gln Glu Tyr Gly Gln Gln His Gly Gln Gln His Gly
65 70 75 80
Gln Tyr Gly Gly Ser Gly Asp Tyr Tyr Asn Gln Gln Arg Asn Tyr Asn
85 90 95
Gln Asp Gln Tyr Gly Gln His Pro Gln Ser Gln Tyr Gly Gln His Gly
100 105 110
Gln His Asp His Gln Tyr Gly Gln Gln His Gln Gly Gln Gly Ser Tyr
115 120 125
Gly Gln Pro Gly Tyr Val Thr Cys Pro Thr Thr Leu Phe Ser Gln Ser
130 135 140

<210> 25865
<211> 201
<212> PRT
<213> A.fumigatus

<400> 25865
Lys Met Ile Gly Asn Leu Ala Leu Leu Thr Trp Leu Val Phe Ser Phe
1 5 10 15
Leu Lys Phe Gly Ser Cys Ile Phe Ile Asp Gly Glu Leu Asn Leu Tyr
20 25 30
Gly Phe Ser Pro Tyr Pro Gly Asp Arg Thr Thr Glu Thr Asn Thr Leu
35 40 45
Thr Val Ser Val His Gly Leu Val His Ala Thr Ala Ser Thr Phe Thr
50 55 60
His Thr Ser Ala Val Pro Ser Arg Thr Met Ser Val Ala Asp Ser Ile

65 70 75 80
Ser Ser Thr Ala Pro Ser Ser Ser Ile Ser Gly Ala Ser Ser Leu Gly
85 90 95
Trp His Pro Val Ala Ile Thr Leu Thr Lys Lys Pro Thr Pro His Trp
100 105 110
Asn Tyr Asn Ile Thr Val Pro Lys Ser Ser Ala Lys Tyr Ser Ser Ser
115 120 125
Thr Thr Pro Thr Leu Thr Val Ser Thr Ala Glu Ser Ser Ala Arg Glu
130 135 140
Ala Ser Asp Met Glu Thr Thr Gly Phe Trp Lys Asp Gln Ser Thr Pro
145 150 155 160
Thr Thr Ile Thr Ala Leu Ser Asn Asn Thr Met Ile Ser Ser Ser Ala
165 170 175
Asp Gly Ser Arg Ser Pro Leu Ile Phe Ser Ala Val Met Leu Phe Gly
180 185 190
Val Asn Leu Leu Thr Gly Val Leu Leu
195 200

<210> 25866
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25866
Cys Trp Lys Met Ser Leu Ser Asp Gly Asp Glu Ala Cys Glu Thr Arg
1 5 10 15
Phe Asp Asn Trp Ser Glu Ala Thr Pro Ile Leu Gln Asp Asn Tyr Lys
20 25 30
Tyr Val Val Ile Arg Asn Ile Thr His Phe Leu His Thr Ser Thr Ser
35 40 45
Met Ala Glu Tyr His Leu Tyr His Ile Phe Arg Gly Gln Asn Lys Leu
50 55 60

<210> 25867
<211> 476
<212> PRT
<213> A.fumigatus

<400> 25867
Ser Ser Phe Ala Ala Asp Ser Asp Trp Gln Ser Glu Glu Ser Gly Arg
1 5 10 15
Phe Asp Asp Ala Glu Glu Ser Met Leu Asp Glu Gln Pro Pro His Ser
20 25 30
Arg Ser Ala His Ser Ser Lys Arg Arg Arg Ser Asn Asp Trp Pro Leu
35 40 45
Gln Pro Gly Glu Glu Asn Pro Ala Pro Lys Asp Asn Gly Asn His Cys
50 55 60
Trp Pro Phe Lys Asn Ser Ser Tyr Gly Ser Pro Arg Arg Thr Gly Arg
65 70 75 80
Gln Gly Gly Gly Gly Asp Lys Ser Ser Arg Gly Arg Pro Ser Arg Phe
85 90 95
Ile Glu Ala His Met Asn Asp Ser Val Ser Glu Lys Pro Pro Ser Ile
100 105 110
Phe Ile Arg Gly Asp Ala Gly Ala Ser Glu Gln Asn Asp Cys Gly Ala
115 120 125
Gly Gln Arg Gln Ser Gly Ile Phe Arg Phe Gly Arg Ala Ile Ala Ser

```
    130                 135                 140
Ala Phe Asn Pro Phe Gly Val Trp Gly Asn Val Ser Asp Ile Trp Arg
145                 150                 155                 160
Gly Ser Gln Ser Glu His Arg Pro Glu Gly Asp Ala Arg Ala Arg Ala
                165                 170                 175
Glu Lys Ala Tyr Ala Glu Leu Lys Lys Ala Gly Tyr Lys Gly Thr Val
            180                 185                 190
Lys Gly Ser Tyr Met Gln Gly Met Gln Thr Ser Ala Pro Val Ala Glu
        195                 200                 205
Gln His Ser Arg Arg Ala Ser Gln Ala Gln Ser Asp Gly Ser Lys Thr
    210                 215                 220
Leu Gly Arg His Ser Arg Gln Asn Ser Thr Glu Gly Tyr Gly Ser Gly
225                 230                 235                 240
Ser Ser Ile Arg Ser Ser Leu Gln Glu Leu Arg Lys Ala Lys Ser Ser
                245                 250                 255
Leu Gly Ile Pro Tyr Ile Lys Arg Gly Ser Glu Asp Leu Asp Arg Pro
            260                 265                 270
Glu Val Arg Lys Ser Arg Ser Arg Lys Glu Leu Gln Arg Gln Ala Lys
        275                 280                 285
Leu Leu Lys Arg Val Ser Asp Leu Glu Gly Lys Leu Glu Arg Ala Arg
    290                 295                 300
Arg Glu Leu Arg Glu Leu Thr Gly Glu Lys Glu Glu Glu Pro Val Arg
305                 310                 315                 320
Thr Leu Cys Gln Glu Arg Thr Tyr His Arg Pro Phe Val Pro Gly Ala
                325                 330                 335
Leu Pro Thr Leu Pro Ser Glu Arg Phe Tyr Glu Asn Asn Ala Thr Thr
            340                 345                 350
Val Pro Asp Ser Gln Ala Val Glu Leu Ala Ala Leu Ser Glu Thr Ser
        355                 360                 365
Gly Asn Ile Gln Arg Met Ala Glu Ser Gln Gly Asn Gly Leu Ala Thr
    370                 375                 380
Val Glu Ser Pro Ser Leu Lys Arg Lys Ser Pro Asp Pro Lys Ser Val
385                 390                 395                 400
Arg Asp Lys Val His Gln Met Thr Glu Asp Ser Pro Asn Lys Lys Ser
                405                 410                 415
Leu Tyr Glu Glu Pro Ala Arg Ser Asp Glu Thr Asn Thr Pro Arg Lys
            420                 425                 430
Ala Thr Lys Met Gly Lys Ser Asp Ser Pro Gly Ser Val Glu Arg Lys
        435                 440                 445
Arg Ala Gln Asp Gln Ser Gln Pro Glu Glu His Glu Cys Pro Gly Val
    450                 455                 460
Leu Thr Ser Glu Leu Pro Ile Ala Val Ile Leu His
465                 470                 475

<210> 25868
<211> 123
<212> PRT
<213> A.fumigatus

<400> 25868
Leu Lys Val Ala Glu Ile Lys Ile Ile Gly Ser Pro Asp Pro Ala Asp
1               5                   10                  15
Val His Lys Met Leu Val Pro Gln Leu Arg Ser Val Lys Lys Ala Ala
            20                  25                  30
Asp Glu Cys His Thr Arg Ala Leu Gln Met Asp Lys Lys Phe Glu Glu
        35                  40                  45
```

```
Trp Leu Trp Phe Ala Ala Asp Leu His Ser Asn Cys Val Gln Glu Gln
    50                  55                  60
Ser Ser Asn Glu Glu Arg Leu Leu Ala Thr Lys Val Asn Met Ser Val
65                  70                  75                  80
Ala Gln Arg Gln Phe Asp Ser Gln Lys Asn Thr Val Glu Glu Ala Lys
                85                  90                  95
Lys Ile Ser Glu Lys Leu Gly Lys Gln Leu Asp Val Ala Ser Glu Ala
            100                 105                 110
Tyr Lys Lys Ala Ser Asp Ser Phe Pro Ser Gly
        115                 120
```

<210> 25869
<211> 115
<212> PRT
<213> A.fumigatus

<400> 25869

```
Pro Lys Gly Gly Ser Gly Gln Pro Arg Gly Glu Asp Ser Thr Leu Leu
1               5                   10                  15
Leu Leu Ser Ala Ile Phe Phe Thr Thr Gly Gly Leu Lys Asp Ala Lys
            20                  25                  30
Met Val Asp Gln Lys Glu Leu Leu Ala Ala Leu Glu Val Gln His Lys
        35                  40                  45
Arg Asp Asn Arg Pro Gly Ile Thr Arg Lys Ala Val Ala Glu Ile Lys
    50                  55                  60
Ser Ser Ala Ile Phe Gln Val Asn Trp Glu Asp Leu Leu Lys Ser Ala
65                  70                  75                  80
Pro Ile Ser Ile Asn Ala Leu Gly Ala Ala Leu Val Ala Ser Ser Ser
                85                  90                  95
Glu Thr Ala Thr Thr Ile Glu Phe Thr Pro Pro Lys Gly Gly Phe Lys
            100                 105                 110
Phe Leu Gln
        115
```

<210> 25870
<211> 129
<212> PRT
<213> A.fumigatus

<400> 25870

```
Gly Cys Arg Gln Arg Arg Gln Lys Cys Pro Lys Ser Gly Glu Ala Pro
1               5                   10                  15
Pro Pro Pro Pro Pro Ala Pro Pro Lys Pro Lys Ser Pro Leu Pro Gln
            20                  25                  30
Tyr Ser Asp Asp Pro Ala Tyr Val Gln Val Lys Pro Ala Met Val Tyr
        35                  40                  45
Leu Thr Val Leu Asn Ala Leu Leu Thr Ser Gly Lys Asp Gly Gly Val
    50                  55                  60
Asn Trp Glu Ser Ala Val Asp Ser Pro Asp Lys Pro Asp Lys Thr Ala
65                  70                  75                  80
Ser Phe Thr Ser Lys Met Leu Lys Asp Thr Leu Glu Arg Phe Glu Glu
                85                  90                  95
Ser Ala Thr Glu Asn Pro His Ser Gln Lys Leu Leu Glu Val Leu Gln
            100                 105                 110
Thr Ala Thr Glu Val Lys Leu Phe Arg Asp Arg Asn His Gly Arg Leu
        115                 120                 125
```

Ser

<210> 25871
<211> 375
<212> PRT
<213> A.fumigatus

<400> 25871
Pro Thr Gln Gly Glu Lys Lys Leu Asp Cys Asp Gly Thr Arg Leu Leu
1 5 10 15
Ala Gln Met Asn Gln Cys Ile Ala Asn Ala Arg Glu Gly Arg Gln Leu
20 25 30
Ala Gly Ser Pro Glu Arg Leu Asp Lys Ser Ile Glu Ala Phe Ala Ala
35 40 45
Arg Val Gly Pro Ser Met Asp Asp Ser Gly Leu Arg Ala Ile Ala Ala
50 55 60
Val Gly Gln Gln Arg Pro His Val Leu Arg Glu Ser Gly His Gln Arg
65 70 75 80
Val Val Thr Trp Pro His Phe Asp Glu Gly Asn Glu Tyr Leu Lys Gln
85 90 95
Asp Val Gln Val Ser His Leu Val Asp Asn Leu Ile Ser Val Val Ser
100 105 110
Gln Thr Cys Phe Arg Phe Pro Gln Met Asp Ile Leu Gln Ile Gly Thr
115 120 125
Leu Gly Gly Ser Val His Ser Val Leu Arg Glu Met Gly Arg Ser Phe
130 135 140
Arg Ser Phe Thr Tyr Ala Ala Pro Ser Gln Pro Thr Asp Gly Pro Gly
145 150 155 160
Leu Glu Arg Pro Gly Glu Val Gln His Arg Thr Phe Asp Val Asp Arg
165 170 175
Asn Pro Leu Glu Gln Gly Tyr Gln Asp His Ala Tyr Asp Met Val Leu
180 185 190
Phe Thr Thr Ala Arg Phe Pro Leu Glu Val Ala Val Ala His Ile Arg
195 200 205
Arg Leu Leu Lys Pro Arg Gly Phe Leu Val Leu Met Val Arg Thr Asn
210 215 220
Pro Asn Ile Thr His Leu Asn Leu Leu Phe Gly His Pro Ala Arg Cys
225 230 235 240
Thr Glu Thr Cys Ser Gly Glu Gln Val Ile Thr Lys Glu His Trp Ile
245 250 255
Glu Leu Leu Ser Thr Asn Gly Phe Arg Val Glu Ser Leu Asp Ala Pro
260 265 270
Pro Glu Met Ala Gly His Gln Gly Phe Ser Leu Leu Leu Cys Arg Ala
275 280 285
Ser Gly Glu Tyr Lys Glu Pro Ser Pro Arg Gly Asp Leu Leu Leu Val
290 295 300
Gly Gly Gly Asp Lys Asn Ala Asp Cys Val Ile Ser Glu Leu Ala Glu
305 310 315 320
Leu Val Gln Gly Lys Phe Asp Gln Val Leu Arg Ser Pro Ser Leu Asp
325 330 335
Leu Met Glu Ile Thr Val Arg Ser Glu Leu Thr Ala Leu Ile Leu Val
340 345 350
Asp Asp Gln Asp Leu Thr Glu Ala Ser Leu Ser Ala Leu Arg Arg Leu
355 360 365
Ile Thr Pro Thr Ser Arg Ala

370 375

<210> 25872
<211> 81
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25872
Leu Arg Gln Val Ile Tyr Leu Tyr Thr Thr Pro Met Ser Glu Asp Thr
1 5 10 15
Ala Gln Asp Ile Ser Thr Leu Val Ser Gln Glu Xaa Ser Lys Thr Pro
20 25 30
Tyr Glu Cys Ser Ser Leu Thr Arg Leu Ser Gly Gly Thr Ala Asn Phe
35 40 45
Val Tyr Arg Val Phe Ser Leu Gly His Ser Arg Met Gly Arg Lys Pro
50 55 60
Leu Leu Leu His Thr Glu Arg Asn Leu Leu Leu Arg Ile Glu Thr Ser
65 70 75 80
Ser

<210> 25873
<211> 171
<212> PRT
<213> A.fumigatus

<400> 25873
Pro Lys Leu Phe Glu Glu Thr Ile Leu Lys Ala Leu Asn Asp Phe Pro
1 5 10 15
Ala Thr Thr Asp Thr Asp Thr Asp Asn Asn Thr Ser Cys Thr Val Lys
20 25 30
Thr Pro Arg Leu Val Gln Phe Asn Arg Asp Thr Asn Thr Gln Ile Leu
35 40 45
Glu Asp Leu Pro Gly Ala Leu Asp Leu Lys Ser Phe Met Leu Leu Pro
50 55 60
Thr Asn Ser Gln Asn Val Ser Arg Glu Leu Ala Ala Ser Ile Gly Arg
65 70 75 80
Ala Leu Gly Lys Trp Leu Leu Ser Phe His Thr Trp Ala Ser Glu Glu
85 90 95
Ser Gln Lys Glu Leu Ala Lys Thr Met Glu Lys Asn Glu Val Met Arg
100 105 110
Asp Ile Lys Phe Met Val Asn Tyr Asp Asn Val Val Lys Met Val Asp
115 120 125
Gln Phe Pro Asn Leu Leu Lys Glu Ser Gln His Ile Leu Gly Glu Val
130 135 140
Lys Asn Val Ala Ala Ala Glu Leu Gly Arg Lys Asp Gly Lys Glu Phe
145 150 155 160
Gly Ile Ile His Gly Asp Phe Trp Ser Gly Lys
165 170

<210> 25874

<211> 171
<212> PRT
<213> A.fumigatus

<400> 25874

```
Phe Thr Glu Thr Phe Gly Gln Glu Ser Lys Leu Ile Tyr Leu Phe Thr
1               5                  10                  15
Trp Arg Thr Phe Asp Glu Ile Asp Glu Thr Ser Val Leu Ile Pro Ser
            20                  25                  30
Thr Ala Leu Asp Gln Gln Asn Asp Ile Pro Leu Leu Val Thr Asp Trp
        35                  40                  45
Glu Leu Cys His Cys Gly Ser Arg Ala Leu Asp Leu Gly Gln Met Val
    50                  55                  60
Ala Glu Leu Tyr Gln Leu Lys His Phe Leu Asn Ile Asp Ala Gly Val
65                  70                  75                  80
Trp Leu Ile Glu Gly Leu Leu Asp Gly Tyr Gly Pro Val Asp Glu Asp
                85                  90                  95
Met Ala Phe Arg Ile Ala Ile His Ile Gly Val His Phe Ile Cys Trp
            100                 105                 110
Gly Ser Thr Ile Pro Gly Trp Gly Thr Asn Asp Gln Val Glu Gly Val
        115                 120                 125
Val Lys Leu Gly Arg Asp Leu Val Val Lys Gly Trp Gln Lys Asp Arg
    130                 135                 140
Asp Trp Phe Gly Glu Gly Trp Leu Lys Cys Leu Phe Pro Val Ala Tyr
145                 150                 155                 160
Asn Trp Ser Asp Gln Lys Glu Asp Ile Arg Ala
                165                 170
```

<210> 25875
<211> 460
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(421)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25875

```
Asp Xaa Gln Pro Ala Thr Ser Pro Gln Ser Pro Asn Pro Lys Ile Ala
1               5                  10                  15
Leu Ser Gly Ser Phe Leu Asn Gly Val Leu Ser Lys His Ala Val Val
            20                  25                  30
Asp His Ser Ile Phe Ser Thr Pro Phe Arg Gly Gln Glu Phe Gly His
        35                  40                  45
Gln Gln Glu Glu Ile Thr Asn Ala Gly Pro Arg Ser Arg Ala Pro Ser
    50                  55                  60
Leu Gly Ser Tyr Ser Ser Ser Tyr Val Ile Lys Ala Pro Thr Ser Pro
65                  70                  75                  80
Leu Val His Gln Ala Ile Asn Thr Asp Leu Asp Phe Ser Leu Lys Ser
                85                  90                  95
Glu Phe Ser Glu His Pro Pro Ala Ser Asp Ile Ala Ser Arg Arg Arg
            100                 105                 110
Thr Leu Pro Pro Glu Thr Phe Arg Asn Leu Gln Asp Ser Ser Pro Ser
        115                 120                 125
Tyr Ser Arg Val Ile Asn Ile Asn Thr Gly His Ala Pro Gly Ser Phe
```

```
    130                 135                 140
His Asp Ser Leu Ser Phe Gln Ala Arg Gln Ser Arg Lys Pro Leu Thr
145                 150                 155                 160
Ser Ser Tyr Ser Leu Gln Leu Ala Ser Ser Val Gln His Pro Ser Trp
                165                 170                 175
Arg Ala Arg Arg Pro Ser Leu Ala Gly Glu Leu Ser Cys Lys Thr His
            180                 185                 190
Ala Pro Leu Val Gly Ser Tyr Glu Glu Ser Ile Leu Arg Gly Arg Met
        195                 200                 205
Ser Met Asn Pro Ser Lys Pro Leu Asp Phe Thr Ala Gln Ile Gly Val
    210                 215                 220
Leu Gly Lys Gly Asn Cys Lys Ser Ser Leu Lys Cys Pro Pro His Val
225                 230                 235                 240
Thr Val Pro Phe Pro Ala Val Phe Tyr Ser Tyr Pro Thr Ser Gly Lys
                245                 250                 255
Gly Arg Ser Ile Ser Asp Asp Asn Pro Ser Pro Tyr Val Gly Leu Ile
            260                 265                 270
Asp Leu Glu Asn Ser Leu Pro Lys Asp Asn Ser Tyr Val Thr Arg Arg
        275                 280                 285
His Arg His His Arg Ser Pro Ala Gly Ala Ser Lys Gly Gln Arg Thr
    290                 295                 300
Asp Val Asp Val Gly Pro Glu Tyr Gln Thr Gln Glu Ala Leu Arg Met
305                 310                 315                 320
Arg Glu Lys Arg Asn Arg Arg Ala Asp Ser Pro Lys Cys Pro Pro Gly
                325                 330                 335
Gly Cys Tyr Arg Ile Pro Gln Gln Gly Gln Leu Gln Ile Met Ile Lys
            340                 345                 350
Asn Pro Asn Lys Thr Ala Val Lys Leu Phe Leu Val Pro Tyr Asp Leu
        355                 360                 365
Ser Glu Met Glu Pro Gly Thr Lys Thr Phe Ile Arg Gln Arg Ser Tyr
    370                 375                 380
Ser Ala Gly Pro Ile Ile Asp Met Pro Leu Ser Ala Arg Lys Asn Leu
385                 390                 395                 400
Gly Thr Asp Arg Pro Glu Ala Ser Leu Ser Val Ser Glu Asn Pro Lys
                405                 410                 415
Asp Lys Pro Val Xaa Arg Tyr Leu Ile His Leu Asn Ile Cys Cys Pro
            420                 425                 430
Ser Lys Gly Arg Phe Tyr Leu Tyr Ser Ser Ile Arg Val Val Phe Ala
        435                 440                 445
Asn Arg Val Pro Asp Gly Lys Glu Lys Leu Arg Ser
    450                 455                 460
```

<210> 25876
<211> 114
<212> PRT
<213> A.fumigatus

<400> 25876

```
Glu Arg Val Ser Phe Gln Pro Pro Trp Leu Lys Thr Ala Tyr Leu Asn
1               5                   10                  15
Gly Ile Leu Tyr Leu Met Val Ala Thr Phe Pro Asp Val Trp Thr Thr
            20                  25                  30
Ile Tyr His Glu Ser Glu Ser Ile Gly Ser Leu Asn Tyr Leu Ser Leu
        35                  40                  45
Thr Val Gly Met Thr Ile Ala Met Gln Leu Gly Thr Arg Ile Ala Gly
    50                  55                  60
```

```
Arg Val Tyr Gln Arg Leu Cys Ala Asn Asn Gly Gly Val Ala Arg Pro
65                  70                  75                  80
Glu Phe Arg Leu Pro Ile Leu Cys Ala Gly Ala Cys Ile Val Pro Ile
                85                  90                  95
Gly Leu Phe Trp Tyr Gly Trp Ser Ala Arg Gln Ser Ile His Trp Ile
            100                 105                 110
Met Pro
```

<210> 25877
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25877

```
Arg Leu Ile Pro Phe Ser Asp Arg Ser Asn Ser Arg Asp Gly Met Ala
1               5                   10                  15
Lys Tyr Ile Gly Leu Leu Phe Gln Ala Asn Val Ala Gly Tyr Val Ala
            20                  25                  30
Phe Phe Ser Ile Asn Thr Val Ile Asn Leu Leu Thr Cys Ser Met Thr
        35                  40                  45
Tyr Val Val Cys Gly Lys Lys Asn Thr Ala Cys Pro Val Phe Pro Ala
    50                  55                  60
Glu Leu Asp
65
```

<210> 25878
<211> 323
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (9),(11),(16)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25878

```
Gln Glu Pro Pro Thr Ser Arg Asp Xaa Gln Xaa Gln Thr Pro Gln Xaa
1               5                   10                  15
Gly Leu Arg Leu Pro Arg Leu Leu Ser Leu Phe Gly Phe Arg Val Cys
            20                  25                  30
Cys Ser Leu Pro Pro Leu Asp Ser Thr Ser Arg Leu Val Asn Ala Val
        35                  40                  45
Ile Ser Cys Pro Gly Ser Asn Gly Ala Pro Ser Glu Gly Arg Gln Phe
    50                  55                  60
Leu Ala Met Ser Ile Pro Leu Ser Ser Ala Ala Thr Pro Arg Gly Thr
65                  70                  75                  80
Arg Ser Leu Asn Val Pro Ala Thr Gln Asn Thr Ala Pro Val Ile Lys
                85                  90                  95
Phe Arg Cys Leu Phe Thr His Asp Val Arg Arg Lys Ala Lys Arg Trp
            100                 105                 110
His Asp Gly Phe Leu Arg Tyr His Thr Phe Asn Lys Arg Val Met Val
        115                 120                 125
Tyr Asp Thr Thr Gly Tyr Phe Ile Gly Asp Leu His Trp Arg Gln Asp
    130                 135                 140
Asp Gly Ile Gln Asp Gly Asp Glu Leu Glu Leu Asp Lys Gly Val Leu
```

```
145                 150                 155                 160
Ile Gln Val Cys Glu Pro Val Glu Gln Thr Gln Thr Asp Leu Ser Thr
                165                 170                 175
Leu Tyr Asn Asn Lys Lys Lys Ala Gln Asp Ser Pro Thr Gln Ala Ala
            180                 185                 190
Glu Pro Ser Ala Pro Thr Leu Arg Ala Ser Ala Pro Val Arg Ser Ser
        195                 200                 205
Ile Ser Ser Gln Gln Pro Arg Ser Leu Asn Asp Leu Leu Gly Ile Arg
    210                 215                 220
Lys Thr His Ala Gly Leu Ser Val Ser Pro Tyr Glu Glu Arg Gln Arg
225                 230                 235                 240
Gln Lys Gln Lys Glu Asp Asn Arg Leu Ala Ser Glu Arg Ala Ala Lys
                245                 250                 255
Arg Gln Lys Thr Thr Pro Ala His Val Pro Thr Glu Gln Gln Pro Arg
            260                 265                 270
Arg Ser Val Ala Asn Pro Pro Val Leu Ile Asp Leu Ser Asp Ser Pro
        275                 280                 285
Asp Glu Asn Ala Pro Glu Arg Arg Gln Lys Pro Asn Lys Leu Pro Glu
    290                 295                 300
Asn Val Ser Leu Gln Lys Lys Asn Pro Gly Ser Asn Gly Leu Cys Thr
305                 310                 315                 320
Ser Pro Arg
```

Sequence Listing

<210> 25879
<211> 88
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (33)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25879

```
Leu Val Ser Arg Arg Trp Val Val Leu Glu Trp Pro Lys Leu Thr Glu
1               5                   10                  15
Ala Asp Ser Tyr Ser Lys Gly Leu Asp Ser Ser Pro Ala Pro Asp Glu
            20                  25                  30
Xaa Val Thr Ile Gln Leu Asn Arg Ala Leu Thr Phe Leu Lys Thr His
        35                  40                  45
Gln Phe Asp Ala Ala Leu His Asp Leu Glu Thr Val Leu Ala Asp Ser
    50                  55                  60
Asn Pro Ser Glu Lys Thr Leu Phe Arg Lys Ala Gln Ala Leu Tyr His
65                  70                  75                  80
Leu Gln Arg Phe Pro Glu Ser Gly
                85
```

<210> 25880
<211> 148
<212> PRT
<213> A.fumigatus

<400> 25880

```
Leu Leu Ala Asp Lys Pro Arg Ser Leu Met Ala Arg Leu Gln Tyr Ile
1               5                   10                  15
```

```
Lys Ser Ser Ile Val Ile Ser Tyr Leu Arg Ser Val Asn Leu Ser Val
            20                  25                  30
His Ala Pro Ser Asn Ser Met Ser Cys Pro Tyr Asp Lys Pro Ile Val
        35                  40                  45
Asp Ile Thr Gln Tyr Val Phe His Tyr Gln Ile Asp Asp Gln Lys Ala
    50                  55                  60
Trp Ser Ala Ala Arg Val Ala Leu Leu Asp Ala Met Gly Cys Ala Ile
65                  70                  75                  80
Glu Thr Leu Ser Thr Ser Glu Glu Cys Gln Lys Leu Leu Gly Pro Thr
                85                  90                  95
Val Pro Gly Thr Glu Val Pro Asn Gly Phe Arg Leu Pro Gly Thr Asn
            100                 105                 110
Leu Ser Leu Asp Pro Val Lys Gly Ala Phe Asp Met Gly Thr Leu Ile
        115                 120                 125
Arg Tyr Leu Asp His Asn Asp Ala Leu Ser Gly Ala Glu Trp Gly His
    130                 135                 140
Pro Ser Gly Ser
145
```

<210> 25881
<211> 200
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (112),(126),(161),(184),(195)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25881

```
Ala Ala Gln Asn Gly Asp Ile Pro Leu Val Ala Arg Leu Phe Leu His
1               5                   10                  15
Ile Gly Val Ser Ser Thr Asp Asp Arg Gly Lys Asp Asn Leu Gly Ala
            20                  25                  30
Ile Leu Ala Val Ala Asp Trp Leu Cys Arg Ala Ser Ala Ser Gly Arg
        35                  40                  45
Tyr Lys His Thr Gly Pro Pro Leu Thr Met Arg Thr Leu Leu Thr Ala
    50                  55                  60
Leu Ile Lys Ala Tyr Glu Ile Gln Gly Cys Tyr Gln Ile Arg Asn Ala
65                  70                  75                  80
Phe Asn Ala Phe Gly Ile Asp His Val Ile Leu Val Lys Leu Ala Ser
                85                  90                  95
Ala Ala Val Val Ala Trp Leu Leu Gly Leu Thr Glu Glu Lys Thr Xaa
            100                 105                 110
Ala Thr Leu Ser His Val Trp Met Asp Gly His Ser Ser Xaa Val Tyr
        115                 120                 125
Arg Thr Gly Ala Asn Thr Ile Pro Arg Lys Gly Trp Ala Ala Gly Asp
    130                 135                 140
Ala Cys Met Arg Ala Val His Leu Ala Leu Leu Val Arg Ala Gly Gln
145                 150                 155                 160
Xaa Gly Ala Pro Thr Pro Leu Ser Ser Leu Pro Phe Gly Phe Tyr Ala
                165                 170                 175
Arg Thr Leu Gly Arg Met Gly Xaa Lys Cys Asn Gly Arg Ser Gly Trp
            180                 185                 190
Asp His Xaa Asn Thr Leu Val Asn
        195                 200
```

<210> 25882
<211> 341
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (266),(320)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25882
Gly Ser Ser Ile Ala Ser Ser Pro Ser Arg Arg Pro Arg Asp Glu His
1 5 10 15
Asn Ser Ser Asn Ser Ser Arg Ser Val Thr Pro Gly Ser Asp Ser Pro
20 25 30
Ser Pro Ala Leu Pro Arg Gln Pro Ser Ala Arg Ser Met Arg Arg Arg
35 40 45
Leu Ile Arg Leu Lys Arg Lys His Glu Lys Val Leu Gln Lys Tyr Tyr
50 55 60
Ser Thr Gly Thr Ser Tyr Ser Glu Pro Ile Ser Ser Leu Val Tyr Ser
65 70 75 80
Leu Ala Ser Glu Leu Gly Arg Glu Asp Asn Asp Leu Leu Trp Leu Ala
85 90 95
Ile Val Gly Val Ser Ser Leu Glu Leu Ser Gly Arg Thr Met Ser Gly
100 105 110
Val Gly Ile Ser Asn Pro Ser Glu Ser Gly Gly Ser Ala Gly Trp Gly
115 120 125
Gly Glu Arg Gly Glu Arg Ile Arg Gln Ile Leu Arg Asp Glu Val His
130 135 140
Arg Leu Asn Pro Pro Asp Pro Tyr Glu Arg Asp Arg Asp Ile Arg Gly
145 150 155 160
Glu Ile Asn Gly Val Ile Pro Thr Thr Ala Lys Ser Pro Thr Asp Lys
165 170 175
Ser Ile Arg Leu Ser Pro Glu Pro Arg Phe Ile Leu Ile Arg His Trp
180 185 190
Ser Leu Tyr Glu Ser Met Leu His Ser Pro Tyr Leu Ala Ser Arg Leu
195 200 205
His Val Trp Thr Glu Asn Gly Arg Lys Arg Leu His Lys Leu Leu Ala
210 215 220
Lys Met Gly Ile Ser Leu Ser Gln Cys His Gln Asn Tyr Thr His Met
225 230 235 240
Asp Met Glu Leu Lys Arg Val Leu Arg Gln Arg Leu Leu Lys Tyr Ala
245 250 255
Pro Met Tyr Gly Leu Lys Gly Leu Val Xaa Pro Asp Ala Ser Gly His
260 265 270
Val Ser Phe Arg Glu Gly Trp Gly Phe Trp Arg Cys Trp Gly Trp Lys
275 280 285
Ala Cys Leu Ser Ala Thr Asp Val Gly Val Ile Ile Gly Ala Ile Leu
290 295 300
Glu Val Gly Pro Lys Arg Asn Pro Pro Arg Gln Pro Gly Thr Gln Xaa
305 310 315 320
Arg Leu Ser Arg Pro Thr Gly Pro Tyr Pro Arg Gly Thr Ala Pro Asp
325 330 335
Gly Ser Pro Arg Phe
340

<210> 25883
<211> 319
<212> PRT
<213> A.fumigatus

<400> 25883
Pro Asn Gln Lys Pro Gln Ser Ala Thr Ile Phe Lys Asp Met Gly Pro
1 5 10 15
Pro Arg Ser Gly Ala Ser Lys Lys Pro Thr Ser Ser Lys Asn Ala Pro
20 25 30
Gly Arg Asp Ser Arg Lys Glu Lys Lys Arg Pro Gln Gln Ser Lys Gln
35 40 45
Glu Thr Ala Thr Pro Arg His Asp Gln Thr Gly Gln Asp Gly Lys Gln
50 55 60
Ile Asp Leu Cys Ala Thr Ile Pro Leu Thr Leu Gln Gln Leu Leu Leu
65 70 75 80
Asn Val Phe Lys Thr Ala Leu Leu Thr Ser Asp Gly Pro His Asp Tyr
85 90 95
Gly Tyr Asp His Glu Cys Gln Ser Glu His Arg Thr Gln Thr Pro Arg
100 105 110
Ala Asp Thr Asp Ser Glu Pro Glu Ala Arg Thr Ala Ala Pro Ala Gly
115 120 125
Lys Asp Glu Ile Asp Ile Lys Ser Val Val Gln Thr Ile Lys Ser His
130 135 140
Ser Tyr Asn Arg Asp Phe Glu Ser Ala Tyr Ala Asp Ala Asn Glu Asp
145 150 155 160
Phe Leu Arg Ala Tyr Ala Leu Arg Trp Ser Ala Ser Arg Ala Leu Gly
165 170 175
Tyr Ala Gly Ile Phe Lys Ser Val Leu Arg Met Leu Leu Asp Gly Gly
180 185 190
Asp Gly Ala Gln Val Gln Val Lys Ala Lys Glu Lys Gln Met His His
195 200 205
Ile Val Cys Ile Gly Gly Gly Ala Gly Ala Glu Ile Met Ala Leu Ala
210 215 220
Thr Ala Trp Arg Asp Met Met Asp Glu Asn Ala Leu Ser Asp Arg Val
225 230 235 240
Gly Thr Val Thr Leu Glu Asp Glu Ser Gly Gly Gln Ser Gln Asn Gln
245 250 255
Asn Gln Asp Thr Ala Val Ala Val Thr Ser Phe Pro Arg Pro Gly Met
260 265 270
Thr Val Thr Ala Val Asp Ile Ala Asp Trp Ser Ser Val Val Asp Arg
275 280 285
Leu Ala Arg Thr Ile Arg Ser Pro Ala Val Pro Ala Arg Thr Leu Ile
290 295 300
Leu Pro Ile Val Thr Gln Pro Glu Ala Glu Lys Thr Pro Arg Lys
305 310 315

<210> 25884
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25884
His Ser His Leu Arg Val Thr Gly Gly Glu Val Gly Ala Gln Ser Ala
1 5 10 15

```
Leu Ala Pro Lys Ile Gly Pro Leu Gly Leu Ser Pro Lys Lys Ile Gly
            20                  25                  30
Glu Asp Ile Ala Lys Ser Thr Gly Asp Trp Val Arg Thr Gln Lys Glu
        35                  40                  45
Ser Lys Asp Glu Glu Tyr Arg Ile Ala Asn Met Ile Phe Val Arg Pro
    50                  55                  60
Tyr Arg Arg Val Ser Val
65                  70

<210> 25885
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25885
Glu Leu Ile Asp Asp Arg Val Pro Met Pro Arg Phe Ile Val Cys Asp
1               5                   10                  15
Ala Gly Gly Ser Gln Ala Arg Phe Leu Leu Ser Lys Leu Asn Pro Ser
            20                  25                  30
Thr Thr His Thr Thr Gly Gly Tyr Gly Gly Gly Val Thr Ser Gln Thr
        35                  40                  45
Ile Phe Thr Asp Asp Val Ser Leu Gln Thr Phe Met Asp His Leu Met
    50                  55                  60
Lys Tyr Val Ile Arg Lys Cys Phe Thr Asn Val Met Asn Glu Ala Asn
65                  70                  75                  80
Pro Pro Ile


<210> 25886
<211> 126
<212> PRT
<213> A.fumigatus

<400> 25886
Lys Gly Leu Arg Val Thr Val Lys Leu Thr Ile Gln Asn Arg Gln Ala
1               5                   10                  15
Thr Val Ser Val Val Pro Ser Ala Ser Ser Leu Val Ile Lys Ala Leu
            20                  25                  30
Lys Glu Pro Pro Arg Asp Arg Lys Lys Glu Lys Asn Ile Lys His Asn
        35                  40                  45
Lys Ser Ile Pro Phe Asp Glu Ile Val Glu Ile Ala Arg Lys Met Arg
    50                  55                  60
His Arg Ser Leu Ala Lys Glu Leu Arg Gly Thr Val Leu Glu Ile Leu
65                  70                  75                  80
Gly Thr Ala Phe Ser Val Gly Cys Gln Val Asp Gly Arg Ser Pro Lys
                85                  90                  95
Asp Val Ser Asp Asp Ile Lys Ala Gly Glu Ile Asp Gly Lys Ser Cys
            100                 105                 110
Cys Leu His Pro Arg Gly Trp Ala Gly Ser Ala Leu Lys Tyr
        115                 120                 125

<210> 25887
<211> 242
<212> PRT
<213> A.fumigatus
```

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25887
Thr Leu Arg Gly Ser Phe Arg Leu Leu Gly Glu Xaa Arg Thr Ala Arg
1 5 10 15
Ala Val His His Ala Arg Gln Gly Asn Leu Pro Thr Ala Leu Ser Ile
20 25 30
Phe Thr Ser Val Leu Lys Ala Arg Arg Ser Leu Pro Pro Pro Pro Pro
35 40 45
Asp Ala Lys Pro Phe Val Leu Pro Ser Ile Pro Lys Ser Thr Arg Asp
50 55 60
Pro Phe Val Ser Leu Tyr Asn Ser Ile Lys Thr Met Leu Val Pro Ala
65 70 75 80
Glu Tyr Pro Pro Pro Leu Pro Ser Gly Asp Glu Pro Pro Leu Arg Thr
85 90 95
Thr Ala Ser Ala Cys Glu Glu Ala Gly Leu Met Thr Tyr Ile Gly Glu
100 105 110
Ile Ile Tyr Ala Ser Ser Ser Arg Glu Thr Gly Leu Ala Trp Thr Arg
115 120 125
Asp Ala Val Asp Leu Ala Glu Ser Thr Ile Leu Glu Leu Gly Gly Phe
130 135 140
Glu Asp His Asn Pro Gln His Arg Cys Ala Glu Cys Leu Arg Val Gly
145 150 155 160
Leu Glu Asn Trp Lys Thr Met Val Ser Gln Leu Val Ala Gln Ala Glu
165 170 175
Arg Glu Glu Arg Glu Ser Ile Glu Lys Ala Lys His Ser Trp Phe Gly
180 185 190
Gly Glu Lys Gln Met Glu Ala Lys Ala Leu Glu Arg Lys Arg Trp Glu
195 200 205
Ala Glu Arg Leu Ile Leu Asp Asp Arg Ile Lys Lys Leu Trp Pro Ile
210 215 220
Ile Asp Gly Gly Ser Gly Leu Glu Gly Ile Ala Pro Asn Ser Ser Leu
225 230 235 240
Phe Ile

<210> 25888
<211> 104
<212> PRT
<213> A.fumigatus

<400> 25888
His Thr Ser Ala Arg Ser Ser Thr Arg Pro Pro Pro Gly Lys Pro Val
1 5 10 15
Ser Pro Gly Arg Val Thr Gln Ser Thr Trp Pro Asn Pro Pro Ser Leu
20 25 30
Ser Ser Val Ala Ser Lys Thr Ile Thr Pro Asn Thr Ala Ala Pro Ser
35 40 45
Val Ser Ala Trp Val Trp Arg Ile Gly Arg Gln Trp Ser Pro Ser Trp
50 55 60
Leu Arg Arg Arg Lys Glu Arg Asn Ala Arg Ala Ser Arg Lys Pro Ser
65 70 75 80
Ile Pro Gly Ser Glu Ala Arg Ser Arg Trp Lys Leu Lys Pro Leu Ser

```
                85                  90                  95
Glu Ser Asp Gly Arg Pro Ser Gly
            100
```

<210> 25889
<211> 358
<212> PRT
<213> A.fumigatus

<400> 25889

```
His Gly Phe Phe Val Glu Met Leu Phe Val Ser Ile Thr Ala Ala Leu
1               5                  10                  15
Leu Leu Ala Val Leu Asp Thr Leu Pro Ala Gly Met Gln Ala Gln Asp
            20                  25                  30
Ala Glu Gly Trp Tyr Lys Ala His Pro Gly Met Ala Arg Ile Ser Gln
        35                  40                  45
Val Asn Gln Asp Thr His Gln Ile Val Asp Glu Phe Gly Arg Thr Arg
    50                  55                  60
Phe Phe His Gly Thr Asn Val Val Met Lys Glu Pro Pro Trp Tyr Arg
65                  70                  75                  80
Pro Phe Glu Trp Ala Pro Gly Val Ser Ser Phe Gly Glu Gln Asp Val
                85                  90                  95
Gln Asn Leu His Ala Leu Gly Leu Asn Ile Val Arg Leu Gly His Ser
            100                 105                 110
Trp Ala Gly Ala Glu Pro Val Arg Gly Gln Tyr Asn Gln Thr Phe Leu
        115                 120                 125
Asp Ile Met Lys Lys Gln Thr Lys Leu Ala Glu Asp Tyr Gly Leu Tyr
    130                 135                 140
Val Leu Val Asp Val His Gln Asp Val Leu Ala Arg Gln Phe Cys Gly
145                 150                 155                 160
His Gly Val Pro Asp Val Ser Arg Met Arg Gly Pro Val Gly Thr Ala
                165                 170                 175
Ala Thr Asp Met Ala Val Gln Trp Phe Val Lys Glu Asp Trp Val Pro
            180                 185                 190
Gly Trp Lys Met Tyr Pro Phe Pro Leu Lys Pro Thr Pro Phe Pro Val
        195                 200                 205
Asp Asn Lys Gly Phe Pro Ser Pro Gln Ser Leu Cys Gly Thr Val Asp
    210                 215                 220
Trp Ser Leu Ser Tyr Thr Ser Ala Ala Val Cys Asn Ala Phe Gly Arg
225                 230                 235                 240
Leu Tyr Asn Asn Tyr Asp Gly Leu Gly Asp Ala Phe Ala Ala Tyr Trp
                245                 250                 255
Lys Lys Leu Ala Ser Glu Tyr Val Glu Thr Thr Asn Val Val Gly Tyr
            260                 265                 270
Asn Leu Leu Asn Glu Pro Trp Val Gly Asp Ser Met Ala Asp Pro Thr
        275                 280                 285
Leu Leu Val Pro Gly Val Ala Asp His Lys Val Leu Glu Gly Leu Trp
    290                 295                 300
Asn Arg Ala Ala Lys Gln Ile Arg Thr Val Asp Asn Asp Thr Leu Leu
305                 310                 315                 320
Trp Phe Glu Ser Ala Thr Ile Glu Leu Trp Ser Gly Phe Asn Asn Val
                325                 330                 335
Pro Pro Gly Lys Arg Leu Asp Phe Ser Pro Leu Ile Pro Pro Thr Thr
            340                 345                 350
Ala Pro Pro Gln Leu Ser
        355
```

<210> 25890
<211> 84
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (14)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25890
Ala Arg Tyr Leu Pro Ala Arg Arg Leu Lys Thr Ser Ser Xaa Glu Ala
1 5 10 15
Gln Val His Asn Asn Asp Phe Ile Gly Ala Ala Ser Tyr Asn Ile Phe
20 25 30
Val Gly Val Ser Val Ala Thr Ile Phe Gly Ala Ala Phe Phe Phe Asp
35 40 45
Leu Phe Trp Pro Glu Arg His Glu Ser Lys Ser Val Arg Leu Ala Trp
50 55 60
Lys Ile Ser Gly Val Val Val Ser Val Met Met Leu Ala Ser Ala Leu
65 70 75 80
Thr Met Thr Val

<210> 25891
<211> 186
<212> PRT
<213> A.fumigatus

<400> 25891
Leu Pro Thr Arg Ala Thr Thr His Thr Asp Leu Val Leu Arg Ala Arg
1 5 10 15
Glu Met Gly Ile Glu Ser Lys Val Ile Pro Asn Ala Ser Ile Met Ser
20 25 30
Gly Ile Gly Cys Thr Gly Leu Gln Leu Tyr Asn Phe Gly Gln Thr Val
35 40 45
Ser Met Val Phe Phe Thr Glu Asn Trp Lys Pro Thr Ser Tyr Tyr Asp
50 55 60
Arg Val Lys Glu Asn Val Gln Leu Gly Leu His Thr Leu Val Leu Leu
65 70 75 80
Asp Ile Lys Val Lys Glu Gln Ser Tyr Glu Asn Met Ala Arg Gly Arg
85 90 95
Arg Ile Phe Glu Pro Pro Arg Tyr Met Thr Val Ala Gln Cys Ala Ser
100 105 110
Gln Met Leu Glu Thr Glu Glu Glu Arg Lys Glu Gly Val Phe Gly Pro
115 120 125
Asp Ser Leu Ala Val Gly Ala Ala Arg Val Gly Gly Pro Asp Gln Lys
130 135 140
Leu Gly Val Gly Thr Leu Gln Glu Leu Ser Glu Val Asp Met Gly Pro
145 150 155 160
Ala Cys Thr Ala Trp Gly Cys Leu Glu Glu Lys His Met Ile Trp Ser
165 170 175
Arg Phe Ile Ser Lys Lys Phe Ala Gly Gly
180 185

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<210> 25892
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25892
Gln Phe Leu Lys Ser Ala His Thr Gln Phe Leu Val Arg Thr Ala Asp
1 5 10 15
Ser Ser Ser Ser Asn Arg Lys Ala Val Gly Ser Lys Asp Thr Phe Leu
20 25 30
Ser Phe Phe Leu Gly Phe Gln His Leu Ala Arg Thr Leu Gly Asn Gly
35 40 45
His Val Pro Trp Arg Phe Lys Tyr Pro Pro Ser Ser Ser His Val Leu
50 55 60
Ile Arg Leu Leu Leu Asp Leu Asp Ile Gln Glu Asp
65 70 75

<210> 25893
<211> 147
<212> PRT
<213> A.fumigatus

<400> 25893
Gln Ala Pro Gly His Arg Arg Cys Ser Ser Pro Arg Thr Asp Pro Ala
1 5 10 15
Thr Gly Thr Val Ile Trp Lys Ala Gly Pro Leu Val Pro Asn Ala Pro
20 25 30
Lys His Tyr Gly Leu Thr Ala Phe Ala Ala Thr Leu Asn Glu Ile Thr
35 40 45
Pro Ile Glu Glu Lys Arg Leu Pro Val Thr Asp Ser Arg Leu Arg Pro
50 55 60
Asp Gln Arg Ala Leu Glu Asp Gly Asp Val Asp Arg Ala Glu Gln Val
65 70 75 80
Lys Val Gln Leu Glu Glu Ala Gln Arg Ala Arg Arg Arg Glu Met Glu
85 90 95
Ala Ala Gly Glu Ser Trp Thr Pro Arg Trp Phe Lys Arg Val Asp Ala
100 105 110
Asp Glu Asp Ala Glu Asp Val Trp Ala Leu Lys Pro Gly Lys Asp Gly
115 120 125
Tyr Trp Glu Glu Arg Ala Arg Gly Thr Trp Thr Gly Val Val Pro Val
130 135 140
Phe Glu Ala
145

<210> 25894
<211> 162
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25894
Pro Val Gly Lys Met Pro Val Leu Asn Glu Thr Thr Gly Gln Lys Ser

```
1               5                   10                  15
Val Ser Thr Phe Lys Ala Xaa Gly Met Phe Ser Gly Arg Ser Glu Glu
            20                  25                  30
Val Ile Thr Lys Ala Val Asp Pro Tyr Asn Asn Glu Leu Pro Leu Gly
        35                  40                  45
Leu Thr Gly Thr Trp Thr Ser Ser Leu Gln Leu Thr Lys Asn Gly Ser
    50                  55                  60
Arg His Gly His Gly Asp Leu Glu Gly Arg Ala Pro Cys Ala Gln Arg
65                  70                  75                  80
Ala Gln Thr Leu Arg Ser Asp Gly Ile Arg Gly Asn Ser Glu Arg Asp
                85                  90                  95
His Ala His Arg Gly Glu Ala Thr Ala Gly Asp Gly Leu Ala Ala Ala
            100                 105                 110
Ala Gly Ser Ala Gly Ala Gly Gly Arg Gly Cys Gly Pro Cys Gly Ala
        115                 120                 125
Ser Gln Gly Ala Ala Gly Gly Ser Ala Thr Gly Ala Ala Ala Arg Asp
    130                 135                 140
Gly Gly Gly Gly Arg Glu Leu Asp Ala Ala Leu Val Gln Ala Gly Gly
145                 150                 155                 160
Cys Gly
```

<210> 25895
<211> 119
<212> PRT
<213> A.fumigatus

<400> 25895

```
Leu Tyr Gly Gln Val Asp Ile Met Ile Ala Gly Gln Phe Leu His Leu
1               5                   10                  15
Phe Ser Trp Glu Gly Gln Lys Gln Ala Gly Lys Arg Ile Val Ala Leu
            20                  25                  30
Ser Lys Arg Gly Thr Val Leu Ile Gly Tyr Gln Gln Ser Arg Arg Arg
        35                  40                  45
Ala Arg Glu Tyr Met Arg Pro Trp Gly Met Met Phe Tyr His Asn Arg
    50                  55                  60
Asp Ser Phe Leu Gln Met Trp Arg Glu Ile Ser Leu Glu Thr Ser Thr
65                  70                  75                  80
Asp Trp Lys Val Glu Ala Thr Glu Val Asp Leu Ala Glu Trp Gly Met
                85                  90                  95
Glu Ala Glu Asp Thr Glu Trp Met Pro Ala Asp Arg Gln Gly Leu Asn
            100                 105                 110
Phe Val Leu Thr Arg Val His
        115
```

<210> 25896
<211> 167
<212> PRT
<213> A.fumigatus

<400> 25896

```
Lys Lys Lys Lys Ser Ser Leu Asn Pro Ala His Ser Lys Leu Tyr Glu
1               5                   10                  15
Ala Thr Thr Ser Asp Glu Asp His Val Lys Leu Ser Val Tyr Ser Pro
            20                  25                  30
Pro Asp Leu Gln Arg Pro Thr Phe Glu Glu Ala Thr Ser His Glu Phe
```

```
        35                  40                  45
Thr Pro Thr His Ile Gly Ala Ser Phe Gly Pro Ser Trp Ser Thr His
    50                  55                  60
Trp Phe Arg Ile Arg Leu Thr Val Pro Arg Asp Met Leu Asp Lys Glu
65                  70                  75                  80
Arg Leu Glu Phe His Trp Asp Ala Asn Asn Glu Gly Leu Val Trp Thr
                85                  90                  95
Asp Asp Gly Arg Pro Val Gln Gly Leu Thr Gly Gly Gly Glu Arg Ile
            100                 105                 110
Gln Trp Val Ile Pro Asp Ala Trp Arg Asp Gly Lys Glu His Thr Phe
        115                 120                 125
Tyr Ile Glu Met Ala Cys Asn Ala Met Phe Gly Asn Ala Pro Gly Gly
    130                 135                 140
Asp Ser Ile Gln Pro Pro Ala Pro Asp Lys Tyr Tyr Thr Leu His Thr
145                 150                 155                 160
Ala Arg Ile Asn Ala Val Asn
                165
```

<210> 25897
<211> 152
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (72)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25897

```
Glu Ile Ser Asp Asp Leu Met Glu Cys Trp Ser Thr Leu Val Thr Gln
1               5                   10                  15
Pro Lys Pro Ser Ala Leu Gln Gln Ala Gln Gln Leu Ala Tyr Val Lys
            20                  25                  30
Tyr Thr Ala Pro Val Pro Asp Ala Asp Ala Asp Ala Asp Gly Thr Pro
        35                  40                  45
Ser Gly Glu His Arg Ala Asn Arg Thr Ile Ile Thr Cys Glu Ser Arg
    50                  55                  60
Gly Leu Ile Leu Ser Ala Gly Xaa Thr Gly Phe Arg Thr Trp Glu Ala
65                  70                  75                  80
Ala Leu His Leu Gly Ser Phe Leu Ser Thr Pro Ala Gly Gln Ala Leu
                85                  90                  95
Val Arg Gly Lys Arg Val Ile Glu Leu Gly Ala Gly Thr Gly Phe Leu
            100                 105                 110
Ser Met Phe Cys Ala Lys Tyr Leu Gly Val Gln Ser Met Val Ala Thr
        115                 120                 125
Asp Arg Glu Leu Gly Leu Ile Gln Asn Ile Arg Asp Cys Ser Leu His
    130                 135                 140
His Gly Ala Gly Arg Thr Arg Ala
145                 150
```

<210> 25898
<211> 122
<212> PRT
<213> A.fumigatus

<400> 25898

```
Pro Asp Arg Pro Lys His Leu Tyr Tyr Tyr Ile Ile Val Gln Ala Phe
1               5                  10                  15
Ala Gln Trp Arg Lys Ser Val Glu Gly Asn Met Ser Leu Gly Leu Ser
            20                  25                  30
Ser Val Glu Asp Asp Ser Asp Gly Gln Asn Asp Asn Tyr Val Ser Phe
        35                  40                  45
Asp Lys Leu Val Ala Gln Tyr Phe Gln Gln Val Glu Pro His Leu Leu
    50                  55                  60
Glu Phe Pro Asp Gly Arg Thr Met Ile Lys Ser Ala Ala Gln Ser Ala
65                  70                  75                  80
Leu Tyr Gln Arg Met Phe Asn Glu Ala Ala Leu Trp Pro Ile Pro Pro
                85                  90                  95
Leu Asn Tyr Arg Ala Arg Val Leu Lys Asn Ile Leu Ser Ile Leu Glu
            100                 105                 110
Glu Ser Ile Ser Asp Pro Glu Glu Asp Val
        115                 120
```

<210> 25899
<211> 114
<212> PRT
<213> A.fumigatus

<400> 25899

```
Arg Asn Lys Gln Asn Gln Pro Phe Ile Tyr Thr Phe Leu Phe Asp Pro
1               5                  10                  15
Gln Ala Pro Ser Leu Asn Asp Val Ser Phe Tyr Lys Ser Ile His Arg
            20                  25                  30
Gln Leu Ala Pro Leu Gln Arg Pro Leu Ser Lys Ser Thr Ser Pro Ala
        35                  40                  45
Asn Ala Ala Glu Arg Ile Ser Met Ser Glu Asn Ala Ile Asp Phe Asn
    50                  55                  60
Lys Arg Phe Ser Thr Lys Asn Leu Pro Val Tyr Asp Leu Ile Tyr Asp
65                  70                  75                  80
Pro Thr Asn Leu Thr Ile Arg Ser Ser Ile Pro Asn Ile Pro Asp Leu
                85                  90                  95
Gly Tyr Tyr Ser Leu Glu Asn Ser Pro Leu Ser Arg Val Glu Ser Leu
            100                 105                 110
Asn Asn
```

<210> 25900
<211> 89
<212> PRT
<213> A.fumigatus

<400> 25900

```
Pro Ile Ile Met Glu Leu Glu Arg Ser Glu Asn Val Ile Ile Val Thr
1               5                  10                  15
His Gln Ala Val Leu Arg Cys Ile Tyr Ala Tyr Phe Leu Asn Ile Pro
            20                  25                  30
Gln Glu Gln Ser Pro Trp Met Glu Val Pro Leu His Thr Leu Ile Lys
        35                  40                  45
Leu Thr Pro Arg Ala Tyr Gly Thr Glu Glu Gln Arg Phe Lys Ala Asp
    50                  55                  60
Ile Pro Ala Val Ser Thr Trp Arg Ala Lys Gly Thr Ser Ala Lys His
65                  70                  75                  80
```

```
Gln Glu Phe Pro Thr Glu Val Lys His
                85

<210> 25901
<211> 336
<212> PRT
<213> A.fumigatus

<400> 25901
Leu Ile Leu Ile Ala His Arg Phe Val Asp Cys Pro Gly His Asp Ile
1               5                  10                  15
Leu Met Ser Thr Met Leu Ser Gly Ala Ala Val Met Asp Ala Ala Leu
            20                  25                  30
Leu Leu Ile Ala Gly Asn Glu Ala Cys Pro Gln Pro Gln Thr Ser Glu
        35                  40                  45
His Leu Ala Ala Ile Glu Ile Met Lys Leu Ser His Ile Ile Ile Leu
    50                  55                  60
Gln Asn Lys Val Asp Leu Met Arg Glu Asp Gly Ala Leu Gln His Tyr
65                  70                  75                  80
Gln Ser Ile Leu Lys Phe Ile Arg Gly Thr Val Ala Asp Gly Ser Pro
                85                  90                  95
Ile Ile Pro Ile Ser Ala Gln Leu Lys Tyr Asn Ile Asp Ala Val Asn
            100                 105                 110
Glu Tyr Leu Val Ser His Ile Pro Val Pro Val Arg Asp Phe Thr Ala
        115                 120                 125
Ser Pro His Met Ile Val Ile Arg Ser Phe Asp Val Asn Lys Pro Gly
    130                 135                 140
Ala Glu Ile Asp Glu Leu Lys Gly Gly Val Ala Gly Gly Ser Ile Leu
145                 150                 155                 160
Thr Gly Val Leu Lys Leu Asn Asp Glu Ile Glu Ile Arg Pro Gly Leu
                165                 170                 175
Val Thr Lys Asp Glu Asn Gly Lys Ile Gln Cys Arg Pro Ile Phe Ser
            180                 185                 190
Arg Val Val Ser Leu Phe Ala Glu His Asn Asp Leu Lys Phe Ala Val
        195                 200                 205
Pro Gly Gly Leu Ile Gly Val Gly Thr Arg Val Asp Pro Thr Leu Cys
    210                 215                 220
Arg Ala Asp Arg Leu Val Gly Phe Val Leu Gly His Arg Gly Arg Leu
225                 230                 235                 240
Pro Ala Ile Tyr Thr Glu Leu Glu Val Asn Tyr Phe Leu Leu Arg Arg
                245                 250                 255
Leu Leu Gly Val Lys Thr Ala Asp Gly Lys Gln Ala Lys Val Ala Lys
            260                 265                 270
Leu Thr Lys Asn Glu Val Leu Met Val Asn Ile Gly Ser Thr Ala Thr
        275                 280                 285
Gly Ala Lys Val Met Gly Val Lys Ala Asp Ala Ala Lys Leu Ser Leu
    290                 295                 300
Thr Ser Pro Ala Cys Thr Glu Ile Gly Glu Lys Ile Ala Ile Ser Arg
305                 310                 315                 320
Arg Ile Asp Lys His Trp Arg Leu Ile Gly Trp Ala Asn Ile Val Ala
                325                 330                 335

<210> 25902
<211> 63
<212> PRT
<213> A.fumigatus
```

<400> 25902
Gln Ile Met Trp Pro Leu Ile Asn Tyr Tyr Trp Leu Leu Leu Ala Thr
1 5 10 15
Tyr Gln Glu His Ser Pro Gln Tyr Pro Arg Lys Ser Asn Gly Leu Glu
20 25 30
Ile Ile Gln Phe Arg Asp Asn Leu Pro Leu Ile Leu Gly Ile Leu Ser
35 40 45
Arg Tyr Tyr Leu Ala Ser Val Lys Pro Ala Gln Thr Leu Thr Gly
50 55 60

<210> 25903
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25903
Ser Ser Glu Val Gln Ala Leu Trp Trp Met Ser Leu Thr Leu Leu Cys
1 5 10 15
Met Asp Asp Ser Ile Glu Ala Val Ala Gly Thr Ser Asp Phe Asp Leu
20 25 30
Leu Ser Ala Phe Lys Phe Leu Ser Thr Pro Pro Leu Lys Ala Tyr Phe
35 40 45
Ser Arg Ala Thr Ala Asn Glu Val Asp Arg Leu Arg Arg Leu Ala Trp
50 55 60
Cys Val Tyr Arg Lys Asn Thr
65 70

<210> 25904
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25904
Gln Trp Leu Ala Ser Ser Ser Pro Val Thr Phe Val Tyr Tyr His Pro
1 5 10 15
Leu Asp Asp Tyr Glu Phe Ala Gln Lys Leu Asn Tyr Ser Val Leu Arg
20 25 30
Asp Tyr Thr Tyr Leu Val Thr Val Ser Arg Val Trp Tyr Ile Asp Tyr
35 40 45
Ile Asn Arg Ile Ser Leu Leu Asp Arg Asn Gln Thr Gln
50 55 60

<210> 25905
<211> 184
<212> PRT
<213> A.fumigatus

<400> 25905
His Ala Leu Ile Ser Ala Pro Ala Val Lys Thr Leu Tyr Thr Asn Glu
1 5 10 15
Ser Thr Ser Gly Asp Thr His Ile Pro Ser Leu Glu Ile Ser Tyr Ala
20 25 30
Ser Leu Ala Ala Val Glu Asn Phe Phe Leu Ser Ser Ser Ile Val Thr
35 40 45
Glu Trp Val Val Gly Asn Phe Ile Asn Ala Asp Phe Gly Val Ala Ala

```
    50                  55                  60
Ala Leu Ser Gly Asp Val Asp Leu Ser Asn Arg Phe Asp Arg Met Ala
65                  70                  75                  80
Thr Ala Met Thr Asp Tyr Leu Arg Tyr Gly Pro Asn Thr Gln Ser Ala
                85                  90                  95
Gln Gly Glu Ile Tyr Gln Thr Glu Pro Phe Val Phe Ile Arg Trp Gly
            100                 105                 110
Tyr Phe Val Val Pro Ile Ile Thr Glu Gly Leu Ala Ile Leu Phe Ala
        115                 120                 125
Ile Ser Thr Ile Tyr Asn Asn Arg Arg Ser Arg Arg Val Pro Leu Trp
    130                 135                 140
Lys Ser Ser Thr Leu Ala Val Leu Ala Cys Gln His Glu Ala Gly Leu
145                 150                 155                 160
Gly Leu Leu Gln Thr Ser Ser Lys Asp Ile Asn Glu Ile Gln His Glu
                165                 170                 175
Ala Asn Lys Ala Glu Ala Arg Leu
            180

<210> 25906
<211> 259
<212> PRT
<213> A.fumigatus

<400> 25906
Arg Leu Ile Leu Gly Phe Phe Phe Phe Phe Leu Ala Ala Tyr Ile Ile
1               5                   10                  15
Cys Ser Glu Leu Val Arg Ala Lys Pro Ser Lys Gly Glu Ile Leu Val
            20                  25                  30
Phe Pro Arg Gly Lys Ile Pro Ala Phe Val Lys Lys Ser Arg Arg Asp
        35                  40                  45
Gly Asp Leu Glu Gly Ala Pro Thr Phe Glu Lys Gln Gln Leu Asp Asn
    50                  55                  60
Ala Gly His Asp Ser Thr Ala Ala Ile Val Lys Gln Thr Ser Ile Phe
65                  70                  75                  80
His Trp Gln Asp Val Cys Tyr Asp Ile Lys Val Lys Gly Glu Thr Arg
                85                  90                  95
Arg Ile Leu Asp His Ile Asp Gly Trp Val Lys Pro Gly Thr Leu Thr
            100                 105                 110
Ala Leu Met Gly Val Thr Gly Ala Gly Lys Thr Ser Leu Leu Asp Val
        115                 120                 125
Leu Ala Asn Arg Val Thr Met Gly Val Ile Thr Gly Glu Met Leu Val
    130                 135                 140
Asp Gly Arg Met Arg Asp Asp Ser Phe Gln Arg Lys Thr Gly Tyr Val
145                 150                 155                 160
Gln Gln Gln Asp Leu His Leu Glu Thr Ser Thr Val Arg Glu Ala Leu
                165                 170                 175
Ile Phe Ser Ala Thr Leu Arg Gln Pro Ala Ser Thr Pro His Lys Glu
            180                 185                 190
Lys Leu Ala Tyr Val Glu Glu Val Ile Lys Met Leu Asn Met Glu Glu
        195                 200                 205
Tyr Ala Glu Ala Val Val Gly Val Leu Gly Glu Gly Leu His Val Glu
    210                 215                 220
Gln Arg Lys Arg Leu Thr Ile Gly Val Glu Leu Ala Ala Asn Pro Ala
225                 230                 235                 240
Leu Leu Cys Phe Phe Asp Glu Pro Thr Ser Gly Ser Asp Ser Arg Thr
                245                 250                 255
```

Pro Gly Ser

<210> 25907
<211> 349
<212> PRT
<213> A.fumigatus

<400> 25907
Cys Leu Ser Leu Asp Val Glu Ser Thr Thr Pro Glu Gly Ser Pro Ala
1 5 10 15
Pro Asn Tyr Ile Pro Leu Gly Gly Ser Gln Gln Gln Gln Gln Ala Asn
20 25 30
Gly Ala Ser Ser Thr Thr Pro Ala Gln Ala Ala Pro Asp Thr Ser Ser
35 40 45
Ile Leu Lys Ala Leu Ala Asp Met Ala Lys Gln Asn Thr Thr Thr Pro
50 55 60
Ala Ala Pro Ala Thr Thr Asn Pro Leu Asn Ala Leu Asn Met Gln Gly
65 70 75 80
Thr Val Ser Gln Pro Val Thr Ser Ser Val Asp Gln Ala Ser Gln Val
85 90 95
Gln Ala Gly Gln Ser Gly Val Asn Pro Tyr Ala Ala Gly Thr Met Ala
100 105 110
Thr Pro Phe Ala Ala Leu Asn Asn Leu Ala Gln Asn Pro Ala Leu Ile
115 120 125
Pro Ser Gln Ser Gln Ser Gln Thr Pro Pro Asn Pro Leu Ala Ala Ala
130 135 140
Ala Asn Pro Leu Ala Ala Leu Leu Pro Gln Ala Thr Ser Ala Ala Ala
145 150 155 160
Gln Pro Thr Pro Ser Ile Ala Pro Asp Ala Leu Gln Gln Gln Leu Gln
165 170 175
Leu Leu Gln Leu Leu Ala Ala Gln Gly Ile Pro Gln Glu Gln Trp Ala
180 185 190
Thr Ala Leu Gln Ile Leu Ser Leu Ser Asn Ala Thr Asn Met Ala Asn
195 200 205
Val Asn Pro Gly Gln Ala Val Gly Phe Asn Leu Pro Gly Gln Ala Ala
210 215 220
Ala Ala Trp Gly Ser Arg Pro Asp Ser Gln Ser Arg Asp Phe Asp Arg
225 230 235 240
Gly Asp Arg Glu Arg Asp Arg Asp Tyr Met Arg Ser Pro Pro Gly Gln
245 250 255
Tyr Arg Arg Arg Ser Arg Ser Pro Gly Trp Asp Arg Arg Arg Asp Val
260 265 270
Ser Pro Pro Arg Arg Arg Asp Ser Pro Val Tyr Gly Glu Tyr His Gly
275 280 285
Asp Ser Leu Gly Arg Arg Gly Asp Met Arg Gly Arg Arg Gly Asn Asp
290 295 300
Tyr Arg Gln Arg Ser Pro Pro Gly Arg Arg Arg Arg Ser Pro Thr Pro
305 310 315 320
Pro Arg Lys Asp Pro Thr Leu Pro Pro Pro Gly Pro Lys Phe Ile Glu
325 330 335
Trp Asp Tyr Ser Ile Gly Gln Gly Asn Ile Lys Gly Leu
340 345

<210> 25908
<211> 100

<212> PRT
<213> A.fumigatus

<400> 25908
Glu Asn Ala Val Tyr Ala Arg Ala Gly Cys Ala Asp Gly Asn His Cys
1 5 10 15
Leu Val Asp His Ala Cys Leu Pro Asp Asp Gln Glu Asn His His Asp
20 25 30
Thr Leu His Lys Gln Gly Tyr His Gly Gly Glu Glu Ala Thr His His
35 40 45
Asp Val Gly Pro Thr Gln Ala Thr Glu Ile Cys Asp Asp Thr Gly Leu
50 55 60
Glu Glu Ser Ala Cys Ser Arg Asp Leu Val His Asp Arg Leu Asp Gln
65 70 75 80
Asn His Val Thr Val Asn Leu Asp Gly Tyr Pro Arg Gln Gln Leu Leu
85 90 95
Asp Pro Val Gly
100

<210> 25909
<211> 83
<212> PRT
<213> A.fumigatus

<400> 25909
Leu Phe Ala Asn Thr His Gln Leu Glu Glu Gln Met Gln Leu Ser Ile
1 5 10 15
Gln Asn Ser Tyr Asp Arg Ala Gly Asn Val Ile Arg Asn Ala Asp Ala
20 25 30
Glu Ile Ala Arg Thr Arg Ser Ile Leu Ala Ser Ile Asp Asp Leu Glu
35 40 45
Asn Glu Leu Ala Lys Ile Gly His Ile Arg Glu Ile Val Lys Ala Tyr
50 55 60
Arg Gly Arg Ile Glu Ser Leu Asp Gln Arg Ile Asp Gln Ala Ala Arg
65 70 75 80
Arg Arg His

<210> 25910
<211> 70
<212> PRT
<213> A.fumigatus

<400> 25910
Arg Val Leu Thr Asn Val Leu Thr Lys Leu Pro Ala Glu Asp Thr Asp
1 5 10 15
Ala Ala Tyr Thr Thr Ile Ser Phe Ser His Arg Ile Ser Ala Ser Ile
20 25 30
Leu Val Ala His Thr Tyr Ser Asn Ser Tyr Glu Leu Tyr Glu Thr Asn
35 40 45
Asp Met Lys Ser Phe Ala Pro Glu Ala Val Ala Tyr Gln Leu Pro Asp
50 55 60
Tyr Arg Leu Thr Asp Glu
65 70

<210> 25911

<211> 87
<212> PRT
<213> A.fumigatus

<400> 25911
Leu Ile Asn Thr Asn Cys Gly Val Arg Gly Phe Leu Gly Thr Asn Leu
1 5 10 15
Asn Ser Tyr Arg Phe Pro Arg Ser Ser Leu His Gln Arg Asp Pro Arg
20 25 30
Ala Ser Ser Leu Phe Asp Ser Tyr Gly Gly Gly Ser Arg Pro Ala Ser
35 40 45
Arg Ser Pro Ala Ser Val Gly Gly Tyr Ser Tyr Gly Gly Tyr Ser Ala
50 55 60
Ser Asn Ala Asp Gly Tyr Met Asn Gly Gly Ser Thr Gly Gly Phe Arg
65 70 75 80
Lys Ala Thr Pro Asn Ala Lys
85

<210> 25912
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25912
Tyr Tyr Arg Gln Leu Thr Leu Ala Ile Gly Asp Glu Ile Arg Asp Thr
1 5 10 15
Ser Thr Ile Ser Glu Leu Asn Asp Ala Phe Asp Asn Thr Arg Val Arg
20 25 30
Leu Arg Gly Asn Met Thr Arg Met Leu Arg Met Ala Glu Arg Thr Gly
35 40 45
Val Gly Trp Arg Ala Trp Leu Gly Phe Phe Leu Ala Val Phe Leu Ile
50 55 60
Phe Ala Tyr Val Trp Leu Thr
65 70

<210> 25913
<211> 91
<212> PRT
<213> A.fumigatus

<400> 25913
Ala Leu Pro Ser His Ile Pro Asp Val Thr Gln Val Thr Asn Ser Ser
1 5 10 15
Ile Glu Gly Met Gly Val Thr Val Asp Ser Asp Gly Ser Tyr Pro Tyr
20 25 30
Ser Thr Tyr Glu Gly Ser Asp Phe Ala Lys Asn Leu Ala Ala Pro Asp
35 40 45
Ile Asp Phe Gly Val Phe His Leu Tyr Thr Glu Asp Cys Glu Tyr Cys
50 55 60
Ser Thr Leu Val Val Thr Gly Leu Ser Ile Asp Ala Ser Tyr Gln Gly
65 70 75 80
Ala Ser Lys Thr Thr Ala Gly Ala Thr Ala Gly
85 90

<210> 25914
<211> 175

<212> PRT
<213> A.fumigatus

<400> 25914
Arg His Asn Leu Gln Lys Ala Gly Leu Lys Ile Leu Arg Thr Trp Gly
1 5 10 15
Phe Asn Asp Val Asn Ser Lys Pro Ser Ser Gly Thr Val Tyr Phe Gln
20 25 30
Leu His Asp Pro Ser Thr Gly Thr Thr Thr Ile Asn Thr Gly Ala Asp
35 40 45
Gly Leu Gln Arg Leu Asp Tyr Val Val Ser Ala Ala Glu Lys Arg Gly
50 55 60
Ile Lys Leu Leu Ile Pro Leu Val Asn Asn Trp Asp Asp Tyr Gly Gly
65 70 75 80
Met Asn Ala Tyr Val Lys Ala Tyr Gly Gly Ser Lys Thr Glu Trp Tyr
85 90 95
Thr Asn Ser Lys Ile Gln Ser Val Tyr Gln Ala Tyr Ile Lys Ala Val
100 105 110
Val Ser Arg Tyr Arg Asp Ser Pro Ala Ile Met Ala Trp Glu Leu Ser
115 120 125
Asn Glu Ala Arg Cys Gln Gly Cys Ser Thr Asp Val Ile Tyr Asn Trp
130 135 140
Thr Ala Lys Thr Ser Ala Tyr Ile Lys Ser Leu Asp Pro Asn His Met
145 150 155 160
Val Ala Thr Gly Asp Gly Thr Leu Ser Thr Pro Leu Ser His Thr
165 170 175

<210> 25915
<211> 100
<212> PRT
<213> A.fumigatus

<400> 25915
Arg Ile Val Pro Gly Gly Ile Lys Asp Asn Ser Trp Gly Asn Gly Trp
1 5 10 15
Val Thr Ser His Ala Lys Val Cys Lys Ala Ala Gly Lys Pro Cys Leu
20 25 30
Phe Glu Glu Tyr Gly Leu Lys Asp Asp His Cys Ser Ala Ser Leu Thr
35 40 45
Trp Gln Lys Thr Ser Val Ser Ser Gly Met Ala Ala Asp Leu Phe Trp
50 55 60
Gln Tyr Gly Gln Thr Leu Ser Thr Gly Pro Ser Pro Asn Asp His Phe
65 70 75 80
Thr Ile Tyr Tyr Gly Thr Ser Asp Trp Gln Cys Gly Val Ala Asp His
85 90 95
Leu Ser Thr Leu
100

<210> 25916
<211> 90
<212> PRT
<213> A.fumigatus

<400> 25916
Gln Tyr Gln Pro Phe Phe Ser Leu Ser Ala Ala Arg Ile Gly Thr Pro
1 5 10 15

```
Ala Met Lys Lys Ala Gly Gly Ala Ser Leu Cys Thr Phe Pro Ser Ser
            20                  25                  30
Cys Pro Gln His Ala Thr Ala Ala Gln Gln Leu Ile Met His His Asn
        35                  40                  45
Ala Met Thr Val Gln Asp Pro Ser Leu Leu Ile Cys Thr Leu Pro Gly
    50                  55                  60
Lys Trp Val Leu Phe Thr Leu Leu Arg Thr Thr Ala Lys Ala Val Met
65                  70                  75                  80
Leu Leu His Cys Leu Val Ser Phe Leu Ser
                85                  90
```

<210> 25917
<211> 386
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11),(14),(15)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25917

```
Pro Gln Val Ser Phe Arg Phe Val His Tyr Xaa Ile Asp Xaa Xaa Gly
1               5                   10                  15
Thr Gly Val Ala Thr Leu Val Ala Cys Ala Gln Ala Gly Ala Asp Ala
            20                  25                  30
Val Asp Pro Ala Thr Asp Ser Met Ser Gly Met Thr Ser Gln Pro Ser
        35                  40                  45
Val Gly Ala Ile Leu Ala Ser Leu Glu Gly Thr Glu His Asp Pro Lys
    50                  55                  60
Leu Asn Leu Ala His Val Arg Ala Ile Asp Ser Tyr Trp Gln Gln Leu
65                  70                  75                  80
Arg Leu Leu Tyr Ser Pro Phe Glu Ala Gly Leu Thr Gly Pro Asp Pro
                85                  90                  95
Glu Val Tyr Glu His Glu Ile Pro Gly Gly Gln Leu Thr Asn Leu Leu
            100                 105                 110
Phe Gln Ala Ser Gln Leu Gly Leu Gly Gln Gln Trp Ala Glu Thr Asn
        115                 120                 125
Lys Ala Tyr Glu Ser Ala Asn Asp Leu Leu Gly Asp Ile Val Asn Val
    130                 135                 140
Thr Pro Thr Ser Lys Val Val Gly Asp Leu Ala Gln Phe Met Val Ser
145                 150                 155                 160
Asn Lys Leu Thr Pro Glu Asp Val Val Ala Arg Ala Gly Glu Leu Asp
                165                 170                 175
Phe Pro Gly Ser Val Leu Glu Phe Leu Glu Gly Leu Met Gly Gln Pro
            180                 185                 190
Phe Gly Gly Phe Pro Glu Pro Leu Arg Ser Lys Ala Leu Arg Gly Arg
        195                 200                 205
Arg Lys Leu Asp Lys Arg Pro Gly Leu Tyr Leu Glu Pro Leu Asp Leu
    210                 215                 220
Ala Lys Ile Lys Asn Gln Ile Arg Glu Lys Tyr Gly Ser Ala Thr Glu
225                 230                 235                 240
Tyr Asp Val Ala Ser Tyr Ala Met Tyr Pro Lys Val Phe Glu Asp Tyr
                245                 250                 255
Lys Lys Phe Val Gln Lys Phe Gly Asp Leu Ser Ile Leu Pro Thr Arg
            260                 265                 270
```

```
Tyr Phe Leu Ala Lys Pro Glu Ile Gly Glu Glu Phe His Val Glu Leu
        275                 280                 285
Glu Gln Gly Lys Val Leu Ile Leu Lys Leu Leu Ala Ile Gly Pro Leu
    290                 295                 300
Ser Glu Gln Thr Gly Gln Arg Glu Val Phe Tyr Glu Val Asn Gly Glu
305                 310                 315                 320
Val Arg Gln Val Thr Val Asp Asp Asn Lys Ala Ser Val Asp Asn Thr
                325                 330                 335
Ala Arg Pro Lys Ala Asp Ile Gly Asp Ser Ser Gln Ile Gly Ala Pro
            340                 345                 350
Met Ser Gly Val Val Val Glu Ile Arg Val His Glu Gly Ser Glu Val
        355                 360                 365
Lys Lys Gly Asp Pro Val Ala Val Leu Ser Ala Met Gln Met Val Gln
    370                 375                 380
Phe Arg
385

<210> 25918
<211> 114
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5),(10),(12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25918
Ser Phe Pro Arg Xaa Asp Asn Leu Thr Xaa Ile Xaa Ser Thr Pro Ser
1               5                   10                  15
Gly Glu Asp Tyr Thr Phe Pro Phe Asp Arg Leu Gly Gly Arg Ile Pro
            20                  25                  30
Thr Leu Leu Ile Ser Pro Trp Val Ala Lys Ala Gln Val Glu Gln Lys
        35                  40                  45
Gly Lys Asn Ala His Gly Glu Thr Val Ser Tyr Ser Ala Ala Ser Ile
    50                  55                  60
Leu Arg Thr Leu Gly Tyr Leu Trp Asp Phe Glu Pro Phe Thr Pro Arg
65                  70                  75                  80
Val Glu His Ala Ala Ser Phe Glu His Leu Ile Arg Leu His Ala Arg
                85                  90                  95
Lys Asp Thr Pro Thr Ala Leu Pro Ser Ala Val Pro Phe Arg Asn Arg
            100                 105                 110
Asn Val


<210> 25919
<211> 300
<212> PRT
<213> A.fumigatus

<400> 25919
Tyr Leu Cys Ile Glu Met His Val Leu Lys Arg Ser Cys Cys Gly Asp
1               5                   10                  15
Cys Val Cys Gly Asp Ser Arg Ala Lys Gln Gly Leu Thr Glu Pro Val
            20                  25                  30
Pro Val Phe Ile Gln Pro Gln Ser Leu Thr Ala Ser Gln Ser Ser Asp
```

```
        35                  40                  45
Leu Leu Ser Ala Gln Ile Ser Cys Pro Ser Leu Ser Pro Ser Pro Ser
    50                  55                  60
Pro Asp Ser Ala Thr Phe Ile Ser His Pro Gln Ser Ile Leu Ser Ala
65                  70                  75                  80
Glu Pro Ser Gly Ser Asp Phe Cys Asp Pro Arg Gln Leu Thr Val Glu
                85                  90                  95
Ser Ser Val Gly Ala Pro Ala Glu Leu Pro Pro Leu Pro Thr Leu Ser
            100                 105                 110
Cys Asn Glu Glu Glu Pro Lys Val Val Leu Gly Ser Ala Thr Val Thr
        115                 120                 125
Leu Pro Val His Glu Gly Leu Ser Pro Ser Phe Ser Ser Ser Ser Glu
    130                 135                 140
Asp Pro Leu Gly Ser Leu Pro Thr Phe Asp Ser Phe Ser Asp Leu Asp
145                 150                 155                 160
Ser Glu Asp Glu Phe Ala Asn Lys Leu Val Asp Phe His Pro Ile Gly
                165                 170                 175
Asn Thr Tyr Phe Gln Gly Asp Lys Arg Gln Arg Leu Gly Thr Tyr Leu
            180                 185                 190
Leu Asp Glu Asp Glu Phe Leu Ser Glu Arg Ser Leu Glu Asp Leu Asp
        195                 200                 205
Asp Gln Glu Ala Phe Ala Gln Ser Gly Leu Pro Ser Val Glu Ser Ser
    210                 215                 220
Asp Phe Leu Ala Val Gly Gly Asp Ala Thr Gln Ser Thr Glu Glu Met
225                 230                 235                 240
Ser Ser Lys Lys Arg Val Thr Ser Arg Arg Ser Leu Lys Lys Ala Ser
                245                 250                 255
Thr Ser Glu Ser Ser Ser Asp Ser Leu Ala Lys Glu Asp Ser Gly Phe
            260                 265                 270
Arg His Gln Pro Val Trp Ser Leu Arg His Asp Phe His Arg Pro Ala
        275                 280                 285
Phe Asp Cys Phe Phe Ala Ser Glu Leu Asp Arg Pro
    290                 295                 300
```

<210> 25920
<211> 231
<212> PRT
<213> A.fumigatus

<400> 25920

```
Leu Thr Ser Val Gln Ser Gln Thr Gln Gln Pro Ile Thr Met Asp Ala
1               5                   10                  15
Thr Tyr Thr Met Ala Gln Thr Pro Val Gln Gly Gln Pro Ser Phe Ala
            20                  25                  30
Tyr Tyr Pro Thr Glu Ser Gln Ser Arg Gln Gln His Phe Thr Ser His
        35                  40                  45
Pro Ser Glu Met Gln Tyr Tyr Gly Gln Val Ser Ser Tyr Pro Gln Gln
    50                  55                  60
Gln Ala Gln Gln Gln His Ser Met Gln Glu Gln Gln Pro Val Tyr Ala
65                  70                  75                  80
Ala Gln Pro Met Leu Asn Met His Gln Met Ala Thr Thr Asn Ala Phe
                85                  90                  95
Arg Gly Ala Leu Ser Met Thr Pro Ile Ala Ser Pro Gln Pro Thr His
            100                 105                 110
Leu Lys Pro Thr Ile Ile Val Gln Gln Asp Ser Pro Ala Leu Met Pro
        115                 120                 125
```

```
Leu Asp Thr Arg Phe Val Ser Asn Asp Phe Tyr Gly Phe Pro Ser Thr
    130                 135                 140
Pro Pro Leu Ser Thr Ser Gly Ser Thr Ile Ser Ser Pro Pro Ser Ser
145                 150                 155                 160
Asn Gly Ser Leu His Thr Pro Ile Asn Asp Cys Phe Phe Ser Phe Glu
                165                 170                 175
Lys Val Glu Gly Val Lys Glu Gly Cys Glu Ser Asp Val His Cys Glu
            180                 185                 190
Leu Leu Ala Asn Thr Asp Trp Ser Arg Ser Asp Ser Pro Pro Leu Thr
        195                 200                 205
Pro Gly Glu Ser Asn Asp Phe Leu Met Phe Ser Leu Val Phe Cys Ser
    210                 215                 220
His Leu Leu Ile Phe Val Tyr
225                 230
```

<210> 25921
<211> 218
<212> PRT
<213> A.fumigatus

<400> 25921

```
Asp Glu Ser Phe Arg Leu His Asn Ser Phe Gln Asn Ser Ile Val Tyr
1               5                   10                  15
His Lys Lys Val Tyr Ala Ser Asn Ser Glu Met Ala Asp Gly Ser Arg
            20                  25                  30
Leu Pro Glu Ser Ala Thr Ser Thr Thr Met Glu Thr Asn Thr Asn Glu
        35                  40                  45
His Ala Lys Val Leu Ser Pro Asp Ala Glu Thr Val Pro Ser Ser Ser
    50                  55                  60
Val Thr Ala Thr Ser Ser Glu Leu Ser Leu Asp Gly Arg Trp Gly Glu
65                  70                  75                  80
Arg Asp Gln Gly Glu Pro Val Ser Arg Arg Gly Ala Met Glu Asp Phe
                85                  90                  95
Glu Glu Met Arg Arg Glu Leu Thr Gln Leu Ser Leu Arg Arg Thr Arg
            100                 105                 110
Ser Val Gly Lys Asp Ala His Arg Leu Arg Ser Arg Ala Ser Gly Arg
        115                 120                 125
Ala Ser Gln Val His Asp Glu Glu Lys Ala Ile Asp Glu Glu Asp Ser
    130                 135                 140
Thr Ile Asp Gly Asp Gly Asp Gly Tyr Gln Gly Gly Phe Asp Leu Gly
145                 150                 155                 160
Glu Phe Leu Met Gly Trp Ser Leu Glu Arg Arg Thr Thr Thr Cys Lys
                165                 170                 175
Pro Ala Asn Lys Val Gly Val Leu Phe Lys His Ser His Gly Glu Arg
            180                 185                 190
Cys Ser Asn Gly Asn Leu Leu Leu Cys Arg Thr Pro Pro Arg Met Leu
        195                 200                 205
Leu Leu Ala His Phe Gly Pro Val Ser Val
    210                 215
```

<210> 25922
<211> 552
<212> PRT
<213> A.fumigatus

<400> 25922

```
Gly Leu Thr Phe Gln Thr Pro Pro Asn Thr Asp Ile Gln Lys Met Thr
1               5                  10                  15
Asn Pro Arg Ala Ala Lys Arg Gly Arg Leu Ser Asn Ile Gln Pro Ala
            20                  25                  30
Asp Lys Asp Gly Asp Ile Gln Met Arg Asp Asp Gly Gln Asn Pro His
        35                  40                  45
Ser Val Ala Ser Ser Pro Thr Gly Gln Gly Ala Ser Pro Thr Thr Ser
    50                  55                  60
Lys Thr Phe Arg Gln Gln Pro Glu Pro Asp Gly Gly Glu Asp Thr Ala
65                  70                  75                  80
Met Asn Gly Ala Gly Asp Asn Ser Ala Ser Val Glu Thr Pro Ser Arg
                85                  90                  95
Asn Gly Leu Arg Ser Ser Gly Arg Gln Arg Lys Pro Pro Gln Arg Tyr
            100                 105                 110
Glu Glu Glu Val Leu Asn Thr Pro Ser Ser Val Lys Arg Thr Arg Ser
        115                 120                 125
Ser Val Gly Gln Ser Glu Arg Thr Pro Arg Ser Thr Arg Arg Ser Arg
    130                 135                 140
Leu Val Pro Ala Thr Glu Glu Ala Glu Glu Asn Ser Pro Gln His Gln
145                 150                 155                 160
Arg Glu Gly Leu Ala Arg Thr Arg Ser Lys Arg Ala Ser Ala Arg Tyr
                165                 170                 175
Ala Pro Thr Glu Lys Gln Asp Gln Glu Asp Gln Pro Glu Ser Arg Glu
            180                 185                 190
Gln Ser Leu Gln Ser Pro Thr Pro Asp Asp Tyr Gln Asp Gly Leu Asp
        195                 200                 205
Asp Leu Val Ser Met Gln Leu Gln Gln Asp Thr Thr His Gln Asp Ala
    210                 215                 220
Ile Glu Tyr Asp Asp Ser Met Val Thr Ser Asn Pro Leu Pro Asp Tyr
225                 230                 235                 240
Ala Glu Arg Phe Leu Arg Leu Val Gln Gly Gly Leu Ser Glu Glu Leu
                245                 250                 255
Arg Leu Leu Thr Lys Val Leu Leu Lys Lys Leu Asn Gly Lys Gln Leu
            260                 265                 270
Ile Pro Leu Lys Gly Leu Glu Ser Glu Tyr Thr Lys Val Arg Gln Leu
        275                 280                 285
Ile Glu Gln Thr Val Thr Ala Gly Glu Gly Asn Ser Met Leu Leu Leu
    290                 295                 300
Gly Ser Arg Gly Cys Gly Lys Thr Ala Ile Val Glu Thr Ile Ile Ser
305                 310                 315                 320
Ser Leu Lys Arg Glu His Met Asn Glu Phe His Val Val Arg Leu Asn
                325                 330                 335
Gly Phe Leu His Thr Asp Asp Arg Leu Ala Leu Arg Glu Met Trp Arg
            340                 345                 350
Gln Leu Gly Arg Glu Thr Asn Thr Glu Glu Glu Ala Gly Lys Val Ser
        355                 360                 365
Thr Tyr Ala Asp Thr Met Ala Ile Leu Leu Ala Leu Leu Ser His Pro
    370                 375                 380
Glu Glu Leu Phe Gly Pro Ser Gly Asn Pro Lys Ala Ile Thr Ala Ala
385                 390                 395                 400
Lys Ser Ile Ile Ile Ile Leu Asp Glu Phe Asp Leu Phe Ala Thr His
                405                 410                 415
Pro Arg Gln Thr Leu Leu Tyr Asn Leu Phe Asp Ile Ala Gln Ala Arg
            420                 425                 430
Lys Ala Pro Ile Pro Val Leu Gly Leu Thr Thr Lys Val Asp Val Thr
        435                 440                 445
```

```
Glu Met Leu Glu Lys Arg Val Lys Ser Arg Phe Ser His Arg Tyr Val
    450                 455                 460
Tyr Val Pro Leu Pro Arg Ser Phe Glu Thr Phe Ser Glu Ile Cys Phe
465                 470                 475                 480
Ala Ala Leu Asn Leu Glu Asp Asp Glu Lys Gln Cys Phe Phe Asp Glu
                485                 490                 495
Val Ala Pro Gly Lys Gly Asn Thr Leu Leu Glu Gly Trp Arg Thr Tyr
            500                 505                 510
Leu Gln Val Tyr Ser Phe Leu Gly Ser Ala Cys Leu Ser Glu Asp Thr
        515                 520                 525
Asn Ser His Leu Ile Gly Pro Leu Gly Arg Arg Ile Val Ser Thr Arg
    530                 535                 540
Arg Arg Met Glu Gly Met Lys Cys
545                 550
```

<210> 25923
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25923

```
His Gln Ser Leu Phe Arg Pro Ser Met Glu Gly Lys Tyr Ser Ser Asp
1               5                   10                  15
Pro Glu Trp Ala Ser Ile Lys Pro Ile Glu Leu Asn Asp Gly Ser Asp
            20                  25                  30
Phe Gly Ala Met Pro Leu Ala Thr Ile Ser Tyr Ser Pro Glu Tyr Leu
        35                  40                  45
Glu Ala Thr Ser Tyr Leu Arg Ala Val Met Ala Ala Asn Glu Met Ser
    50                  55                  60
Glu Arg Ala Leu Arg Leu Thr Gly Asp Ile Ile Ser Met Asn Pro Ala
65                  70                  75                  80
His Tyr Thr Val Trp
                85
```

<210> 25924
<211> 166
<212> PRT
<213> A.fumigatus

<400> 25924

```
Ser Arg Ser Glu Ala Ser Gln Lys Leu Pro Asp Met Val Ser Ile Arg
1               5                   10                  15
Phe Cys Tyr Thr Leu His Pro Phe Tyr Leu Thr His Phe Asn Arg His
            20                  25                  30
His Arg Gln Val Leu Met Ser Ser Arg Ala His Phe Pro Thr Leu Pro
        35                  40                  45
Pro Arg Glu Gln Asp Phe Leu Met Glu Met Phe Ala Gln Asp Ala Lys
    50                  55                  60
Asn Tyr His Val Trp Thr Tyr Arg His Trp Leu Val Arg His Phe Lys
65                  70                  75                  80
Leu Trp Asp His Pro Arg Glu Ile Gln Asp Val Glu Ala Leu Leu Lys
                85                  90                  95
Ala Asp Val Arg Asn Asn Ser Ala Trp Asn His Arg Tyr Met Leu Arg
            100                 105                 110
Phe Gly Pro Arg Asp Glu Asn Glu Phe Asp Ala Gly Leu His Asn Thr
        115                 120                 125
```

```
Thr Gly Pro Ser Ser Glu Lys Gly Arg Leu Pro Val Val Asp Glu Asp
    130                 135                 140
Leu Val Asp Ser Glu Leu Gln Tyr Ser Gln Ser Arg Ile Leu Glu Ala
145                 150                 155                 160
Pro Glu Asn Arg Ser Pro
                165
```

<210> 25925
<211> 150
<212> PRT
<213> A.fumigatus

<400> 25925

```
Met Arg Gly Asp Met Glu Asn Gly Ala Ser Ser Ile Ile Ala Val Leu
1               5                   10                  15
Phe Leu Thr Gln Leu Asn Val Tyr Phe Tyr Asn His Leu Arg Arg Ile
            20                  25                  30
Pro Glu Lys Tyr Arg Asp Met Ala Ser Val Thr Pro Leu Pro Thr Phe
        35                  40                  45
Asp Asn Leu Thr Ile Asp Pro Ser Gly Pro Pro Gly Asn Ala Trp Gly
    50                  55                  60
Leu Phe Gly Lys Asn Asn Glu Leu Gly Met Leu Asn Leu Leu Thr Pro
65                  70                  75                  80
Glu Thr Val Arg Arg Ala Ala Ala Glu Glu Ile Arg Asp Gly Val Arg
                85                  90                  95
Phe Ser Leu Asp Leu Pro Leu Asp Arg Ile Lys Asn Pro Ser Phe Gly
            100                 105                 110
Arg Lys Pro Phe Ala Arg Glu Leu Val Asn Lys Ala Pro Arg Ile Val
        115                 120                 125
Asn Asp Asp Ile Leu Val Phe Asn Thr Gln Cys Ser Thr Gln Trp Asp
    130                 135                 140
Gly Phe Arg His Tyr Gly
145                 150
```

<210> 25926
<211> 129
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (118)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25926

```
Gln Pro Leu Ala Trp Val Lys His Gly Gly Ile Val Gly Arg Gly Val
1               5                   10                  15
Leu Ile Asp Tyr Ala Ser Trp Ala Thr Lys Asn Ser Ile Pro Leu Ser
            20                  25                  30
Pro Phe Thr Thr Thr Lys Ile Pro Leu Ser Ala Ile Lys Gln Ile Val
        35                  40                  45
Glu Glu Asn Asp Ile Arg Phe Arg Pro Gly Asp Ile Leu Phe Leu Arg
    50                  55                  60
Thr Gly Phe Thr Ala Ala Tyr Asp Lys Leu Ser Pro Asp Glu Glu Leu
65                  70                  75                  80
Ala Ile Ser Gln Arg Glu Thr Pro Gln Phe Ala Gly Leu Glu Ala Gly
```

```
                85                  90                  95
Glu Ala Thr Leu Arg Trp Leu Trp Glu Asn Gln Phe Ala Ala Val Thr
            100                 105                 110
Ser Asp Ser Pro Ser Xaa Glu Pro Ser Pro Ile Ala Gly Pro Gln Gly
        115                 120                 125
Arg
```

<210> 25927
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25927

```
Gln Thr Asp Cys Ala Ala Gly Asn His Arg His Lys Arg Tyr Phe Asn
1               5                   10                  15
Gly His Ser Leu Glu Asp Leu Lys Ile Ser Pro Val Ile Gly Ile Asp
            20                  25                  30
Gly Lys Ser Ala Ile Tyr Asn Ser Thr Tyr Phe Gln Leu Thr Ala Ser
        35                  40                  45
Ser Met Gly Gln Ala Arg Arg Asp Cys Arg Lys Arg Arg Ala Asn
    50                  55                  60
```

<210> 25928
<211> 359
<212> PRT
<213> A.fumigatus

<400> 25928

```
Asp Val Phe Leu Asp Gly Gly Lys Val Ile Asp Glu Asn Leu Pro Gly
1               5                   10                  15
Leu Glu Gln Pro Lys Pro Lys Ala Arg Ala Pro Ala Asp Pro Ala Val
            20                  25                  30
Ser Ser Gln Gly Gln Tyr Ala Ala Phe Asn Pro His Ser Gly Ser Thr
        35                  40                  45
Asn Gln Tyr Pro Leu Ser Gln His Asn Val Ala Gly Asp Gly Thr Pro
    50                  55                  60
Asn Gln Phe Asp Ser Ala Gly Phe Gln Phe Asp Leu Pro Gly Asn Pro
65                  70                  75                  80
Pro Ser Ala Ser Pro Val Arg Thr Gln Gly Ser Val Asp His Gly Tyr
                85                  90                  95
Asn Gly Gln Gln Asp Ala Tyr Glu Gly Pro Leu Asn Asn Gln Tyr Met
            100                 105                 110
Glu Gln Gln Gly Ser Gly Gly Pro Ala Val Ala Ala Tyr Glu Asn Gly
        115                 120                 125
Pro Pro Arg Pro Tyr Arg Val Asn Gln Pro Glu Tyr Ala Asn Gln Gln
    130                 135                 140
Pro Glu Met Val Asn Glu Met Asn Glu Leu Asp Ser Gln Gln Asn Pro
145                 150                 155                 160
Asp Gly Leu Pro Arg His Pro Ala Pro Phe Arg Pro Gly His Asp Gln
                165                 170                 175
Gly Ser Lys Pro Pro Pro Val Arg Gln Tyr Asp Asn Ser Asn Thr Thr
            180                 185                 190
Gly Ser Pro Thr Ser Thr Val Pro Gln Ala Gln Pro Ile Ala Gln Pro
        195                 200                 205
Asp Pro Ala Pro Ala Pro Val Thr His Gln Glu Leu Glu Arg Leu Gln
```

```
    210                 215                 220
Gln Val Val Arg Ser Lys Ala Ala Asp Gln Lys Thr Gln Leu Leu Leu
225                 230                 235                 240
Ala Gln Lys Leu Val Glu Ala Ser Thr Val Leu Val Glu Asn Ser Arg
                245                 250                 255
Met Asp Pro Lys Thr Lys Ala Arg Ala Arg Glu Lys Tyr Ile Met Asp
            260                 265                 270
Ala His Lys Ile Val Lys Lys Leu Val Ser Ser Gly Tyr Ala Asp Ala
        275                 280                 285
Gln Phe Tyr Leu Ala Asp Cys Tyr Gly Gln Gly Leu Leu Gly Leu Pro
    290                 295                 300
Val Asp Pro Lys Glu Ala Phe Asn Leu Tyr His Ser Ala Ala Lys Gln
305                 310                 315                 320
Gly His Ala Gln Ser Ala Tyr Arg Val Ala Val Cys Cys Glu Ile Gly
                325                 330                 335
Gln Glu Glu Gly Gly Gly Thr Lys Arg Asp Pro Phe Lys Ala Val Gln
            340                 345                 350
Trp Tyr Lys Arg Ala Ala Ser
        355
```

<210> 25929
<211> 464
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25929

```
Ile Ala Ala Trp Asp Gly Asn Leu Thr Tyr Ala Lys Leu Asn Glu Leu
1               5                   10                  15
Ser Ser Leu Leu Ala Phe Tyr Leu Thr Xaa Leu Gly Val Gly Pro Gly
            20                  25                  30
Leu Leu Val Pro Ile Asp Leu Asp Lys Ser Ser Trp Gln Ile Val Ala
        35                  40                  45
Ile Leu Ala Val Leu Arg Ala Gly Gly Ile Cys Leu Pro Val Asp Ala
    50                  55                  60
Ala Gln Pro Tyr Glu Phe Ile Glu Lys Leu Leu Ile Asp Lys Asp Ile
65                  70                  75                  80
Gln Val Ala Leu Ala Ser Pro Asn Lys Ala Gln Leu Leu Glu Arg Thr
                85                  90                  95
Ile Pro Tyr Val Val Pro Val Gly Arg Ser Leu Phe Asp Tyr Leu Pro
            100                 105                 110
Arg Phe Asp Asp Val Pro His Val Ser His Lys Ala Met Asp His Ala
        115                 120                 125
Tyr Val Val Phe Thr Gly Gly Ser Val Lys Glu Pro Lys Gly Val Met
    130                 135                 140
Leu Gln His Leu Thr Val Leu Thr Arg Ala Glu Asn Phe Ala Ser Ala
145                 150                 155                 160
Leu Glu Leu Asn Lys Ala Thr Lys Val Tyr Gln Ser Ala Thr Tyr Thr
                165                 170                 175
Ser Asp Met Phe Leu Asn Val Leu Phe Gly Thr Met Met Arg Gly Gly
            180                 185                 190
Cys Val Cys Ile Pro Ala Asn Asp Gly Phe Asn Asn Leu Pro Arg Ser
```

```
        195                 200                 205
Ile Asn Ala Ser Arg Ala Asn Thr Val Val Met Thr Pro Ser Leu Ala
    210                 215                 220
Ser Leu Leu Gln Pro Ser Glu Val Pro Glu Val Gln Leu Leu Ala Leu
225                 230                 235                 240
Tyr Gly Glu Ile Leu Thr Asn Gln Val Arg Thr Ile Trp Ser Glu Lys
                245                 250                 255
Val Arg Thr His Ser Leu Tyr Gly Ala Ala Glu Cys Ser Ser Ser Cys
            260                 265                 270
Ile His Ala Ser Asp Cys Gln Thr Leu Gly Glu Ala Arg Asn Leu Gly
        275                 280                 285
Leu Ala Ala Gly Cys Ile Thr Trp Leu Val Asn Pro Ser Asp His Asp
    290                 295                 300
Leu Leu Val Pro Ile Gly Ser Val Gly Glu Val Val Ile Glu Gly Pro
305                 310                 315                 320
Val Ile Ala Ser Gly Tyr Leu Leu His Asn Gly His Val Lys Gly Gly
                325                 330                 335
Phe Ile Glu Asn Pro Val Trp Arg Met Asn Phe Glu Arg Asp Glu Pro
            340                 345                 350
Ser Asn Asp Leu Glu Lys Arg Asp Glu Ser Ser Thr Leu Thr Arg Arg
        355                 360                 365
Met Phe Lys Thr Gly Asp Leu Ala Arg Tyr Asn Ser Asp Gly Ile Leu
    370                 375                 380
Val Tyr Met Gly Arg Lys Glu Arg Gln Thr Gln Arg Leu Gln Ala Asp
385                 390                 395                 400
Ile Trp Asp Val Gln Gln Cys Ile Asp Thr Phe Ser Leu Pro Gly His
                405                 410                 415
Pro Cys Val Val Glu Pro Ile Arg Cys Leu Asp Asp Asp Glu Ser Val
            420                 425                 430
Glu His Leu Ala Val Phe Val Gln Phe Ala Ser Thr His Leu Glu Lys
        435                 440                 445
Ala Asp Gly Gln Arg Ser Val Ile Gly Gln Pro Ser Pro Gln Phe Phe
    450                 455                 460
```

<210> 25930
<211> 404
<212> PRT
<213> A.fumigatus

```
<400> 25930
Lys Met Pro Ser Gln Ser Arg Ser Ser Ser Ser His Trp Ala Gly Gln
1               5                   10                  15
Ser Pro Ser Ser Leu Leu Glu Glu Ser Phe Gly Gly Ile Asn Met Asn
            20                  25                  30
Gly Gly Ser Pro Leu Asn Gly Asn Phe Asn Phe Ala Ser Asn Gly Phe
        35                  40                  45
Pro Phe Gly Ile Asn Phe Ala Pro Ser Pro Pro Gln Asn Asn Met Lys
    50                  55                  60
Ala Glu Ala Thr Gln Arg His Val Leu Thr Val His Pro Thr Ser Leu
65                  70                  75                  80
Lys Ser Arg Val Glu Thr Gln Ile Pro Ile Arg Leu Thr Leu Tyr Pro
                85                  90                  95
Met Pro Ser Gly Val Lys Lys Leu Arg Leu Pro Thr His Thr Ile Ser
            100                 105                 110
Lys Pro Lys Phe Leu Ala Pro Pro Ser Ala Asp Arg Ser Ala Asp Thr
        115                 120                 125
```

```
Leu Gln Leu His Thr Ser Leu Val Cys Thr Ser Ala Met Gln Asp Gln
    130                 135                 140
Thr Lys Leu Arg Lys Ala Phe Ala Arg Ala Arg Gly Glu Thr Arg Tyr
145                 150                 155                 160
Arg Ala Ser Ser Ser Ser Pro Asn Ala Thr Glu Glu Leu Pro Glu Asp
                165                 170                 175
Asp Lys Pro Leu Asp Gly Gly Glu Val Lys Ile Cys Ala Gly Cys Ile
            180                 185                 190
Gln Arg Glu Arg Lys Arg Ala Phe Arg Lys Lys Gln Arg Lys Pro Glu
        195                 200                 205
Glu Asp Glu Leu Phe Gln Lys Asp Glu Glu Lys Arg Val Ile Val Phe
    210                 215                 220
Asn Thr Asn Glu Ile Lys Asp Trp Ala Glu Pro Ser Lys His Ala Met
225                 230                 235                 240
Pro Gly Tyr Thr Asp Ala Pro Ala Pro Val Ile Pro Ala Gly Ala Met
                245                 250                 255
Gln Val Glu Leu Pro Met Arg Ile Ala Cys Tyr Cys Arg His Gln Asn
            260                 265                 270
Glu Lys Leu Gly Phe Gln Val Ile Phe Thr Val Lys Asp His Met Asp
        275                 280                 285
Asn Val Ile Ala Gln Ala Ile Thr Asn Ser Ile Met Ile Thr Asp Asp
    290                 295                 300
His Lys Thr His Ala Pro Pro Ala Pro Pro Ala Pro Gly Pro Ser Pro
305                 310                 315                 320
Ser Leu Pro Asp Gly Thr Gln Leu Pro Gly Val Gly Val Phe Pro Ser
                325                 330                 335
Gly Leu Pro Val Glu Thr Ala Lys Ser Pro Val Gln Ser Phe Arg Ser
            340                 345                 350
Ser Ser Thr Thr Asp Leu Gln Gly Leu Gln Gln Arg Phe Asn Ser Gln
        355                 360                 365
Tyr Gln Met Ser Thr Gly Ser Phe Thr Thr Ser Ala Gln Asn Gly Gln
    370                 375                 380
Asn Gly Gln Lys Asn Ala Thr Ala Arg Ser Ser Pro Arg Ala Trp Lys
385                 390                 395                 400
Val Arg Asp Trp
```

<210> 25931
<211> 75
<212> PRT
<213> A.fumigatus

```
<400> 25931
Gly Ser Gly Thr Ile Tyr Thr Pro Glu Leu Thr Gly Phe Gln Thr Arg
1               5                   10                  15
Thr Arg Pro Phe Lys Gly Ile Asn Leu Asp Glu Tyr Ser Gly Gly Leu
            20                  25                  30
Ser Phe Lys Ala Lys Pro Glu Val Lys Ser His Trp Leu Cys Asp Val
        35                  40                  45
Leu Cys Ile Arg Ile Ala Gly Ser Arg Trp Ile His Leu Leu Ile Thr
    50                  55                  60
Arg Ala Ala Leu Leu Asn Asn Ser Glu Val Ser
65                  70                  75
```

<210> 25932
<211> 71

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (13),(21),(34),(42),(51),(52),(60),(63)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25932
Leu Pro Ser Val Gly Val Thr Ile Pro Gly Thr Gly Xaa Lys Val Ile
1 5 10 15
Ser Thr Pro Thr Xaa Met Val Thr Ser Val Arg Arg Thr Ala Thr Ser
20 25 30
Ala Xaa Gly Thr Gly Asn Gly Ala Gly Xaa Ser Thr Ser Phe Pro Thr
35 40 45
Ser Gly Xaa Xaa Glu Glu Gln Leu Ser Tyr Ile Xaa Phe Val Xaa Lys
50 55 60
Ser Leu Leu Gln Tyr Ile Ala
65 70

<210> 25933
<211> 342
<212> PRT
<213> A.fumigatus

<400> 25933
Trp Leu Arg Asp Ser Thr Asn Gln Leu Ser Gly Tyr Gln Ala Leu Ala
1 5 10 15
Lys Lys Asp Lys Ala Leu His Asn Leu Ile Leu Gly Ala Ile Asn Thr
20 25 30
Gln Ala Glu Phe Val Ile Gln Ser Pro Tyr Cys Asn Ala Phe Gln Pro
35 40 45
Pro Pro Pro Ser Gly Leu Lys Pro Thr Pro Asn Gly Gln Asp Asp Lys
50 55 60
Val His Pro Ala Tyr Glu Pro Ser Val Val Phe Glu Cys Lys Tyr Glu
65 70 75 80
Leu Asp Ser Leu Ala His Phe Leu Ala Leu Gly Thr Gln Phe Phe Glu
85 90 95
Asn Thr Gly Ser Thr Glu Phe Leu Thr Glu Arg Trp Tyr Met Ala Leu
100 105 110
Asn Thr Leu Leu Ser Val Leu Asp Ala Gln Ser Gln Pro Thr Phe Asn
115 120 125
Glu Glu Gly Gln Phe Val Thr Asn Gln Tyr Thr Phe Gln Arg Thr Thr
130 135 140
Thr Ala Gly Thr Glu Thr Leu Ser Leu Gly Gly Ile Gly Asn Pro Leu
145 150 155 160
Asn Asn Gly Thr Gly Leu Ile Arg Ser Ala Phe Arg Pro Ser Asp Asp
165 170 175
Ala Thr Ile Leu Gly Tyr Phe Ile Pro Pro Asn Ala Met Met Ser Val
180 185 190
Gln Leu Lys Lys Thr Ala Asp Val Ile Lys Ala Ala Gly Gly Ser Ala
195 200 205
Asp Leu Val Lys Lys Leu Arg Gln Arg Gly Glu Glu Leu Asp His Ala
210 215 220
Val Arg Glu His Gly Val Val His His Ser Lys Tyr Gly Asp Val Phe
225 230 235 240

```
Ala Phe Glu Val Asp Gly Tyr Gly Ser Arg Ile Leu Met Asp Asp Ala
                245                 250                 255
Asn Ile Pro Ser Leu Leu Ser Leu Pro Leu Leu Gly Tyr Val Asp Glu
            260                 265                 270
Lys Asp Gln Val Tyr Arg Asn Thr Arg Lys Met Ile Leu Asp Lys Ser
        275                 280                 285
Gly Asn Pro Tyr Tyr Leu Thr Gly Phe Ala Phe His Gly Ile Gly Gly
    290                 295                 300
Pro His Ser Lys Phe Ile Ser Ser Pro Ser Ile Asn Leu Ser Met Asn
305                 310                 315                 320
Lys Gly Asp Ala Asn His Asp Ser Tyr Ala Val Gly Phe Ala Glu Arg
                325                 330                 335
Leu Gly Gln Cys His Ser
            340
```

<210> 25934
<211> 68
<212> PRT
<213> A.fumigatus

```
<400> 25934
Glu Asn Val Arg Trp Leu Ile Lys Leu Ala Phe Glu Val Arg Leu Arg
1               5                   10                  15
Thr Ser Pro Ile Val Ile Ala Arg Lys His Thr Phe Asp Ala Ser Ala
            20                  25                  30
Phe Gly Lys Val Ser Gly Ile Leu Lys Val Asp Asp Leu Asn Pro Phe
        35                  40                  45
Asn Arg Gly Ile Phe Thr Thr Gly Leu Ala Phe Asn His Asn Ile Val
    50                  55                  60
Trp Leu Asp Ile
65
```

<210> 25935
<211> 121
<212> PRT
<213> A.fumigatus

```
<400> 25935
Gln Cys Ile Tyr Ala Met Leu Gly Arg Val Ile Phe Gly Pro Asp Glu
1               5                   10                  15
Asp Phe Arg Lys His Gln Thr Gln Gly Ala Leu Pro Ala Leu Ile Arg
            20                  25                  30
Leu Gln Arg Gln Val Ser Tyr Phe Gly Asp Ser Glu Gly Ile Asn Gly
        35                  40                  45
Leu Leu Lys His Ile Thr Asp Asp Glu Ile Ser Cys Gln Val Leu Arg
    50                  55                  60
Met Leu Trp Asp Gly Arg Ser Asp Glu His Ile Pro Tyr Lys Pro Phe
65                  70                  75                  80
Cys Lys Trp Pro Glu Ile Val Asp Pro Ile Phe Lys Asp Leu Ile Gln
                85                  90                  95
Gln Leu Thr Asn Leu Asp Pro Thr Lys Arg Ile Thr Ala Cys Gln Ala
            100                 105                 110
Leu Glu His Pro Trp Phe Arg Asp Tyr
        115                 120
```

<210> 25936

<211> 68
<212> PRT
<213> A.fumigatus

<400> 25936
Arg Gly Ser Phe Asp Pro Arg Gly Glu Asn Phe Lys Ile Glu Leu His
1 5 10 15
Arg Leu Leu Asn Ile Glu Val Gly Gln Leu Gln Val Leu Ser Arg Gln
20 25 30
Arg Ser Val Arg Ala Gly Asp Leu Cys Glu Leu Ser Asn His Val Ala
35 40 45
Phe His Asp Gly Arg Val Lys Leu Lys Ile Val Glu Val Arg Lys Gly
50 55 60
Arg Arg Ala Met
65

<210> 25937
<211> 63
<212> PRT
<213> A.fumigatus

<400> 25937
Lys Val Ser Arg Arg Lys Gly Ile Met Pro Leu Ser Asp Glu Ala Pro
1 5 10 15
Asp Pro Asn Pro Ser Lys Leu Leu Tyr Asn Cys Gly His Met Ala Ser
20 25 30
Val Tyr Leu Leu Glu Asp Leu Arg Thr Tyr Leu Ile Asp Phe Leu Ser
35 40 45
Ile Gln Leu Phe Pro Lys Thr Gln Asp Ile Ile Glu Arg Ile Trp
50 55 60

<210> 25938
<211> 98
<212> PRT
<213> A.fumigatus

<400> 25938
Ile Ala Phe Cys Ile Leu Leu His Ala Phe Tyr Ile Tyr Thr Ile Pro
1 5 10 15
Gln Thr Ile Phe Ser Thr Glu Glu Gly Lys Lys Leu Ile Thr Phe Ser
20 25 30
Ile Leu Tyr Asp Tyr Ala Ser Arg His Thr Ser Phe Tyr Leu Ile Ala
35 40 45
Asp Pro Leu Gly Ala Tyr Ala Val Tyr Leu Asn Asn Leu Arg Ile Ser
50 55 60
Tyr His Gly His Thr Leu Ser Thr Tyr Ser Ser Ser Ile Arg Lys Leu
65 70 75 80
Thr Cys Ser Trp Ala Val Asn Arg Thr Met Leu Tyr Ile Ile Ser Tyr
85 90 95
Ile Val

<210> 25939
<211> 121
<212> PRT
<213> A.fumigatus

<400> 25939
Gln Ser Asp Leu Gln Leu Asn Ser Ile Ser Leu Glu Gln Phe Val Ala
1 5 10 15
Asp Tyr Val Met Glu Ser Glu Asn Val Gln Arg Leu Glu Gln Ser Gln
20 25 30
Phe Ser Glu Gln Pro Glu Thr Val Leu Asn Ser Leu Cys Ser Asn Gly
35 40 45
Ser Thr Glu Asp Leu Gln Ser Glu Lys Val Pro Ser Val Lys Val Ala
50 55 60
Ile Pro Arg Leu Ala Arg Pro Arg Thr Thr Ser Asn Arg Arg Ile Arg
65 70 75 80
Thr Ala Cys Ala Ala Cys Arg Glu Gln Lys Ala Lys Cys Ser Glu His
85 90 95
Arg Pro Cys Leu Arg Cys Ile Ser Phe Gly Ile Ala Cys Thr Thr Leu
100 105 110
Glu Ser Lys His Glu Ser Arg Gln Arg
115 120

<210> 25940
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25940
Glu Phe Ile Ile Ala Gly Ile Leu Asn Val Arg Pro Met His Pro Ser
1 5 10 15
Leu Pro Arg Ile Leu Leu Pro Gln Asp His Arg Cys Leu Met Ser Trp
20 25 30
Ala Met Asn Gln Thr Ala Ala Arg Cys Asn Asp Val Asn Asn Gly Ser
35 40 45
Val Asn Gln Asn His Asn Glu Asp Ser Tyr Ile Leu Gln Asp Ile Leu
50 55 60
Ile Gln Asn
65

<210> 25941
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25941
Ser Cys Gly Lys Arg Ile Leu Gly Arg Glu Gly Cys Ile Gly Leu Thr
1 5 10 15
Phe Arg Ile Pro Ala Ile Met Asn Ser His Ser Arg Val Ala Ser Ile
20 25 30
Ala Ser Arg Thr Val Ser Thr Lys Thr Ala Ser Thr Thr Gly Pro Leu
35 40 45
Ile Phe Asp Glu Val Ile Leu Tyr Lys Ala Ser Phe Val Ser Ile Ile
50 55 60
Thr Val Gln Ser Ala His Asp Ser Asn Val Asn Ala Ser Ser Pro Thr
65 70 75 80
Ile Asn Leu Arg Asp
85

<210> 25942

<211> 84
<212> PRT
<213> A.fumigatus

<400> 25942
Ser Cys Met Ser Ile Phe Leu Pro Pro Thr Ser Arg Lys Leu Val Leu
1 5 10 15
Ile Ile Tyr Ser Leu Phe Leu Cys Val Ala Ala Tyr Leu Ile Phe Gly
20 25 30
Ser Trp Leu Asn Tyr Asn Arg Tyr Gly Ala Arg Gly Trp Asp Leu Leu
35 40 45
Pro His Gly Asp Thr Leu Arg Asp Ile Pro Tyr Ile Phe Gln Asp Trp
50 55 60
Leu Arg Arg Val Ile Asn Thr Leu Gln Gly Ser Gly Ser Arg Gly Gly
65 70 75 80
Tyr Ser Ala Val

<210> 25943
<211> 88
<212> PRT
<213> A.fumigatus

<400> 25943
Ser Gly Pro Glu Phe Trp Val Ile Asn Ala Asp Glu Met Leu Glu Lys
1 5 10 15
Pro Ala Ala Met Phe Glu Ala Phe Cys Ala Ser Val Gly Leu Asp Asn
20 25 30
Asp Pro Ser Met Leu Cys Trp Asp Thr Asp Val Asp His Lys Ile Ala
35 40 45
Arg Asp Ala Phe Glu Lys Trp Arg Gly Phe His Asn Asp Ala Ile Glu
50 55 60
Ser Lys Gly Leu Met Ala Lys Glu Pro Val Ala Leu Pro Phe Ser Ser
65 70 75 80
Pro Phe Leu Ala Asn Arg Arg Asn
85

<210> 25944
<211> 251
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (192)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25944
Ala Arg Tyr Ala Met Glu Ser Ala Cys His Thr Gly Gln Met Cys Val
1 5 10 15
Tyr Asp Thr Val Glu Asp Lys Gly Trp Arg Val Ala Leu Ser Thr His
20 25 30
Arg Ile Glu Ala Val Ile Ser Asp Val Leu Glu Val Tyr Glu Asp Ile
35 40 45
Pro Pro Cys Ala Pro Glu Glu Glu Cys Tyr Asp Cys Glu Leu Trp Lys
50 55 60

```
Phe Phe Lys Ser Asn Gly Ser Glu Ser Thr Thr Thr Ser Thr Thr Thr
65                  70                  75                  80
Thr Thr Thr Ala Pro Thr Thr Thr Arg Thr Ser Thr Cys Lys Thr Pro
                85                  90                  95
Gly Trp Trp Gly Cys Leu Asp Glu Ser Thr Thr Thr Thr Thr Thr Thr
            100                 105                 110
Ser Thr Thr Thr Thr Thr Thr Thr Thr Ser Thr Cys Lys Thr Pro Gly
        115                 120                 125
Trp Phe Gly Cys Lys Asp Pro Thr Thr Thr Thr Glu Ala Thr Ala Ala
    130                 135                 140
Pro Ser Val Thr Thr Ser Ile Pro Thr Pro Thr Thr Tyr Pro Thr Ser
145                 150                 155                 160
Ser Thr Ser Thr Cys Lys Asp Pro Gly Trp Phe Gly Cys Arg Asp Pro
                165                 170                 175
Pro Ser Thr Thr Ala Ser Ile Thr Ser Ser Pro Ser Thr Thr Ser Xaa
            180                 185                 190
Cys Asp Asp Pro Gly Phe Phe Trp Gly Cys Tyr Asp Glu Ser Thr Thr
        195                 200                 205
Ala Thr His Pro Ile Thr Ser Gly Pro Ser Ala Pro Tyr Ser Thr Pro
    210                 215                 220
Ser Pro Thr His Glu His Thr Cys Thr Ser Ser Ile Phe Phe Gly Leu
225                 230                 235                 240
Ile Cys Val Gly Ser Thr Gly Thr Glu Leu Arg
                245                 250
```

<210> 25945
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25945

```
Leu Val Ala Glu Ser Met Ile Cys Ile Glu Val Ile Gly Phe Ile Glu
1               5                   10                  15
Ala Ala Ile Tyr Lys Arg Phe Pro Ser Arg Ala Ser Glu Arg Ile Glu
            20                  25                  30
Val Pro Asn Gly Gly Ile Ile Asp Asp Leu Ser Ile Leu Phe Ala Arg
        35                  40                  45
Pro Lys Ile Cys Ser Phe Leu Ile Pro Asn Cys Ser Ser
    50                  55                  60
```

<210> 25946
<211> 71
<212> PRT
<213> A.fumigatus

<400> 25946

```
Pro His Pro Cys Arg Phe Cys Gly Lys Ser Ser Trp Thr Asn Ser Tyr
1               5                   10                  15
Tyr Ile Ile Thr Leu Pro Leu His Gly Gly Gln Asn Leu Tyr Ser Ala
            20                  25                  30
Ile Val Asn Val Gln Leu Asn Arg Gly Ile Pro Lys Phe Met Leu Ala
        35                  40                  45
Ser Ser Val Ser Leu Gly Cys Leu Lys Ile Thr Ile Ile Glu Ser His
    50                  55                  60
Pro Ser Phe Leu Tyr Leu Gln
65                  70
```

<210> 25947
<211> 91
<212> PRT
<213> A.fumigatus

<400> 25947
Thr Glu Leu Pro Glu Val Asn Asp Ile Leu Pro Pro Gly Val Thr His
1 5 10 15
Glu Glu His Thr Phe Leu Gly Pro Asp Lys Asn Pro Leu Ile Leu Ser
20 25 30
Ile Phe Arg Lys Glu Ser Pro Pro Asp Ser Phe Pro Gln Lys Arg Pro
35 40 45
Ala Ile Tyr His Ile His Gly Gly Gly Met Ile Met Gly Asn Arg Phe
50 55 60
Cys Thr Leu Ser Gly Leu Leu Glu Phe Val Arg Glu His Asn Ala Ile
65 70 75 80
Cys Thr Thr Ile Glu Tyr Arg Leu Ala Pro Lys
85 90

<210> 25948
<211> 125
<212> PRT
<213> A.fumigatus

<400> 25948
Thr Leu Leu Leu Gln Gln Phe Glu Leu Thr Arg Asp Ser Gln Asn Ser
1 5 10 15
Ser Arg Pro Ser Ser Thr Pro Met Glu Pro Ser Ser Ser Pro His Ser
20 25 30
Ala Gln Ser Phe Ser Phe Ala Asp Val Phe Pro Gly Gly Asn Glu Leu
35 40 45
Glu Ile Pro Leu Gly His Pro Phe Asp Ser Val Tyr Glu Phe Ser Pro
50 55 60
Pro Ser Pro Tyr Asn Ala Thr Thr Ile Pro Asp Leu Tyr Ala Leu Asn
65 70 75 80
Thr Ser Tyr Ser Val Pro Ile Pro Ser Tyr Ser Ser Ser Tyr Glu Thr
85 90 95
Gln Phe Ala Phe Thr Pro Ser Phe Glu Asp Ser Leu Leu Ala Gln Tyr
100 105 110
Ser Leu Ser Thr Ser Ala Ser Ser Ser Asp Ser Pro Lys
115 120 125

<210> 25949
<211> 85
<212> PRT
<213> A.fumigatus

<400> 25949
Leu Trp Thr Ser Arg Leu Ser Lys Pro Tyr Ala Cys Glu Asp Cys Gly
1 5 10 15
Lys Ala Phe Thr Arg Ser Ala Asp Leu Lys Arg His Gln Ser Ser Val
20 25 30
His Tyr Pro Val Tyr Gln Asp Cys Pro Val Glu Asp Cys Pro Arg Lys
35 40 45
Asp Arg Asn Gly Phe Pro Arg Arg Asp His Leu Ile Glu His Leu Arg

```
    50                  55                  60
Ser Ser His His Met Asp Leu Pro Lys Arg Arg Met Thr Lys Arg Val
65                  70                  75                  80
Ser Lys Ala Ser Ala
                85
```

<210> 25950
<211> 162
<212> PRT
<213> A.fumigatus

<400> 25950

```
Pro Arg Gln Leu Gly His Phe Gly Leu Gly Val Arg Asn Leu Gln Asp
1               5                  10                  15
Met Val Thr Phe Tyr Thr Thr Thr Val Asn Val Val Pro Ser Asp Phe
            20                  25                  30
Leu Tyr Val Glu Lys Asp Gly Asn Lys Lys Asp Val Ala Leu Phe Ala
        35                  40                  45
His Ile Asp Arg Gly Ala Asp Tyr Val Asp His His Ser Phe Phe Met
    50                  55                  60
Ser Thr Asn Pro Thr Ser His Val His His Cys Ser Phe Glu Val His
65                  70                  75                  80
Asp Phe Asp Thr Gln Asn Leu Gly His Gln Trp Leu Ala His Lys Gly
                85                  90                  95
Tyr Glu Pro Val Trp Gly Val Gly Arg His Ile Leu Gly Ser Gln Leu
            100                 105                 110
Phe Asp Tyr Trp Trp Asp Thr Thr Gly Asn Met Ile Glu His Tyr Ala
        115                 120                 125
Asp Gly Asp Leu Val Asn Glu Glu Thr Pro Val Gly Tyr Gly Pro Ala
    130                 135                 140
Gly Asp Glu Ser Leu Ala Val Trp Gly Pro Gln Val Pro Lys Trp Phe
145                 150                 155                 160
Leu Asp
```

<210> 25951
<211> 76
<212> PRT
<213> A.fumigatus

<400> 25951

```
Ser Met Leu Tyr Asn Glu Tyr Tyr Gly Ala Arg Ala Val Asp Asp Asn
1               5                  10                  15
Ser Thr Val Lys Thr Arg Met Thr Val Leu Leu Leu Ile His Gln Leu
            20                  25                  30
Glu Tyr Val Ile Met Ile Gly Arg Val Leu His Thr Glu His Ile Leu
        35                  40                  45
Leu Gly Trp Arg Gln Glu Cys Pro Arg Ala Asp Arg Pro Trp Asn Gly
    50                  55                  60
Glu Val Met Asp Ala Ala Asp His Trp Ala Thr Lys
65                  70                  75
```

<210> 25952
<211> 306
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (293)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25952
Trp Val Leu Trp Arg Arg Ser Ala Arg His Lys Gly Phe Leu Ala Ala
1 5 10 15
Arg Val Leu Pro Val Ser Cys Val Arg Ser Arg Arg Leu Trp Lys Arg
20 25 30
Gly Val Gly Ser Pro Asp Arg Arg Thr Ser Glu Ser Ile Leu Gly Thr
35 40 45
Ala Pro Gln Ser Ser Pro Leu Ser Asn Arg Thr Lys Arg Pro Ser Ile
50 55 60
Ile Ser Asn Tyr Val Leu Pro Pro Arg Lys Thr Ala Asp Ser Leu Met
65 70 75 80
Asp Val Tyr Trp Gly Phe Val Phe Pro Leu Tyr Pro Leu Val Asp Ser
85 90 95
Ile Gln Leu Arg Ala Glu Tyr Ser Lys Leu Trp Thr Gly Glu Thr Leu
100 105 110
Asp Ser Asp Glu Asn Met Leu Met Cys Thr Phe Asn Val Ile Phe Ala
115 120 125
Leu Ala Cys Gln Leu Ala Asp Phe Ile Pro Pro Asn Glu Arg Glu Ala
130 135 140
Ser Ala Asp Ala Phe Phe Ser Arg Ala Lys Asp Leu Leu His Phe Asn
145 150 155 160
Leu Trp His Gly Gly Ser Ala Ala Leu Ile Gln Cys Leu Leu Leu Met
165 170 175
Ala Gln Tyr Leu Gln Ser Thr Asp Ser Ala His Gln Cys Trp Ile Val
180 185 190
Thr Gly Leu Ala Ile Arg Asn Ala Gln Ser Leu Gly Leu His Leu Pro
195 200 205
Gln Thr Ile Ala Arg Leu Pro Ser Phe Gln Glu Gln Gln Leu Ala Arg
210 215 220
Lys Ile Trp His Gly Cys Val Leu Met Asp Arg Val Ile Ser Met Thr
225 230 235 240
Phe Gly Arg Pro Ala Met Ile Ser Lys Ala Ser Cys Gly Ala Val Pro
245 250 255
Leu Pro Ala Thr Val Asp Glu Glu Tyr Ile Pro Ala Ser Leu Gly Asp
260 265 270
Glu Val Arg Gln Pro Ala Gly Arg Pro Ser Val Met Ala Phe Tyr Ala
275 280 285
Lys Ser Pro Glu Xaa Cys Ala Ile Leu Thr Ala Gly Lys Arg Leu Ala
290 295 300
Ser Lys
305

<210> 25953
<211> 119
<212> PRT
<213> A.fumigatus

<400> 25953
Phe Ala Tyr Pro His Ser Gln Lys Tyr Ile Asn Ser Tyr Gly Val His
1 5 10 15

```
Asn Asn Tyr His Cys Met Ile Tyr Ile Ile Leu Met Ser Ser Pro Ser
            20                  25                  30
Pro Arg His Pro Pro Ser Asp Glu Val Ser Gly Lys Arg Pro Lys Arg
        35                  40                  45
Arg Lys Val Ala Val Ala Cys Asp Glu Cys Arg Thr Arg Lys Val Arg
    50                  55                  60
Cys Asp Gly Ile Gln Pro Gly Arg Ser Arg Trp Leu Phe Phe Arg Leu
65                  70                  75                  80
Pro Cys Gln Cys Cys Phe Gly Thr Arg Thr Val Leu Leu Thr Ala Phe
                85                  90                  95
Ser His Ser Ser Gly Phe Ser Leu Trp Ala Val Tyr Glu Ala Ile Gly
            100                 105                 110
Cys Ala Met Cys Leu His Trp
        115
```

<210> 25954
<211> 123
<212> PRT
<213> A.fumigatus

<400> 25954

```
Gln Arg Gly Thr Phe Gln Pro Arg Gly Glu Asp Glu Thr Pro Val Ser
1               5                   10                  15
Phe Cys Ala Leu Phe Thr Gly Pro His Gly Arg Ser Glu Asp Val Arg
            20                  25                  30
His Tyr Glu Ser Ile Leu Val Ile Ala Ser Gly Phe Gly Ile Ala Ala
        35                  40                  45
Ala Ile Pro Tyr Met Lys Ser Met Ile Tyr Gly Tyr Tyr Thr Arg Thr
    50                  55                  60
Ile Lys Ala Arg Arg Leu His Leu Val Trp Gln Val Trp Ser Arg Ala
65                  70                  75                  80
Glu Ile Thr Ala Ala Glu His Leu Leu Asn Asn Leu Leu Glu Asp Asp
                85                  90                  95
His Lys Asp His Gly Tyr Val Arg Ile Thr Met Leu Arg Asp Ser Leu
            100                 105                 110
Trp Thr Ala Asp Asn Asp Arg Gly Phe Arg Ser
        115                 120
```

<210> 25955
<211> 65
<212> PRT
<213> A.fumigatus

<400> 25955

```
Leu Ile Leu Gly Ser Gly Leu Glu Thr Phe Trp Gln Pro Ala Ala Ala
1               5                   10                  15
Ala Leu Gly Arg Leu Cys Arg Gln Gln Tyr Val Ser Trp Val Met Cys
            20                  25                  30
Trp Glu Thr Tyr Leu Arg Gly Phe Ser Pro Ser Asn Val Arg Lys His
        35                  40                  45
Ser Gln Thr Glu Thr Ala Phe Tyr Thr Gly Gly Glu Val Met Asn Phe
    50                  55                  60
Pro
65
```

<210> 25956

<211> 86
<212> PRT
<213> A.fumigatus

<400> 25956
Arg Pro Val Ile Ala Ile Leu Glu Leu Gly Ala Trp Phe Gly Ala Leu
1 5 10 15
Tyr Ser Gly Leu Leu Cys Glu Arg Ile Ser Arg Lys Tyr Thr Ile Leu
20 25 30
Ala Asn Val Ala Ile Phe Cys Ile Gly Val Val Ile Gln Thr Thr Ala
35 40 45
Ala Thr Lys Gly Gly Asn Ser Ser His Ile Leu Gly Gly Arg Phe Ile
50 55 60
Thr Gly Met Gly Val Gly Arg Tyr Ala Tyr Phe Ser Arg Gly Arg Ser
65 70 75 80
Thr Phe Asn Arg Arg Cys
85

<210> 25957
<211> 200
<212> PRT
<213> A.fumigatus

<400> 25957
Cys Ala Thr Asp Arg Thr Thr Gly Ser Gln Arg Phe Ser Gly Arg Thr
1 5 10 15
Ala Ala Thr Cys His His Leu Arg Asn His Gly Lys Ser Asp Asp Arg
20 25 30
Ser Phe Val Val Leu Val Lys Thr Gln Ala Leu Ile Asp Ile Ser Ala
35 40 45
Gly Phe Phe Leu Val Gly Ser Tyr Leu Leu Pro Met Thr Phe Phe Pro
50 55 60
Asp Glu Tyr Arg Ile Asn Tyr Gly Thr Asn His Ile Gly Gly Thr Gly
65 70 75 80
Pro Thr Gln Lys Asp Ala Ala Trp Leu Leu Pro Leu Ala Leu Gln Leu
85 90 95
Val Pro Ala Val Ile Leu Gly Ala Gly Met Ile Phe Met Pro Phe Ser
100 105 110
Pro Arg Trp Leu Ile His His Asp Arg Glu Asp Glu Ala Lys Lys Val
115 120 125
Leu Thr Ser Leu Arg Gly Leu Pro Ala Asp Asp Pro Leu Leu Gln Leu
130 135 140
Glu Phe Leu Glu Ile Lys Ala Gln Ser Leu Phe Glu Lys Arg Thr Glu
145 150 155 160
Lys Glu Lys Phe Pro His Leu Glu Arg Thr Asn Thr Trp Ser Tyr Ile
165 170 175
Lys Leu Glu Ala Ala Gly Phe Ala Ser Leu Phe Thr Ser Trp Pro Met
180 185 190
Phe Arg Arg Val Met Val Ala Thr
195 200

<210> 25958
<211> 105
<212> PRT
<213> A.fumigatus

<400> 25958
Asp Ser Pro Phe Arg Met Lys Thr Ser Val Gly Thr Pro Thr Ala Ser
1 5 10 15
Val Met Pro Ser Glu Asp Ser Arg Ile Glu Pro Leu Pro Pro Glu Val
20 25 30
Val Ala Lys Ile Lys Ser Ser Thr Ser Ile Ile Asn Leu Asn Arg Val
35 40 45
Val Val Glu Leu Val Lys Asn Ala Leu Asp Ala Asn Ala Arg Thr Val
50 55 60
Ser Val Thr Val Asp Phe His Arg Gly Gly Cys Val Val Glu Asp Asp
65 70 75 80
Gly Asp Gly Ile Pro Pro Ala Glu Phe Glu Ser Asp Gly Gly Leu Gly
85 90 95
Lys Ala His Arg Thr Trp Ala Ser Ser
100 105

<210> 25959
<211> 67
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25959
Pro Arg Asp Ala Pro Asp Ile Thr Arg Asn Met Ser Arg Asp Thr Cys
1 5 10 15
Cys Gln Leu Gln Gln Leu Xaa Pro Ser Arg Gln Leu Phe Gln Thr Leu
20 25 30
Gly Asn Lys His Gly Asn Asp Thr Asp Leu Ser Leu Leu Ile Tyr Lys
35 40 45
Ala Asp Phe Ser Ser Gly Val Ala Val Ile Leu Glu Ile Arg Cys Tyr
50 55 60
Ile Ile Val
65

<210> 25960
<211> 208
<212> PRT
<213> A.fumigatus

<400> 25960
Val Ala Leu Ala Asp Thr Thr Thr Ile Ile Asp Thr Ser Leu Thr Ala
1 5 10 15
Ser Leu Pro Leu Ala Gly Asn Arg Trp His Ile Glu Cys Phe Cys Cys
20 25 30
Ser Thr Cys Gly Thr Leu Leu Asp Ser Asp Ala His Leu Leu Leu Leu
35 40 45
Gly Asp Gly Ser Leu Ile Cys Ser Asn Cys Thr Tyr Ser Cys Ser Ser
50 55 60
Cys Gly Asn Lys Ile Glu Asp Leu Ala Ile Leu Thr Gly Glu Gln Ala
65 70 75 80
Phe Cys Ala Gln Cys Phe Arg Cys Arg Asn Cys Lys Arg Lys Ile Glu
85 90 95

```
Asn Leu Arg Tyr Ala Arg Thr Ser Gln Gly Ile Phe Cys Met Asp Cys
            100                 105                 110
His Glu Ser Leu Met Gln Arg Arg Arg Lys Lys Lys Ala Gly Val Pro
        115                 120                 125
Thr Ser Lys Lys Pro Gly Pro Gly Val Lys Leu Asp Lys Ser Leu Pro
    130                 135                 140
Ser Leu Pro Pro Glu Glu Pro Glu Pro His Arg Ala Pro Asn Asp Ser
145                 150                 155                 160
Ile Leu Asp His Tyr Leu Asp Asp Ala Thr Ser Arg Glu Ala Pro Asp
                165                 170                 175
Ser Gly Arg Asn Glu Arg Pro Pro Ile Ser Arg Gln His Thr Asp Asn
            180                 185                 190
Gln Gly Lys Leu Met Ile Trp Asn Met Arg Ile Thr Arg Ser Asp Arg
        195                 200                 205
```

<210> 25961
<211> 211
<212> PRT
<213> A.fumigatus

<400> 25961

```
Leu Cys Val Leu Ala Asp Asn Leu Ile Leu Pro Ser Ser Thr Tyr Arg
1               5                   10                  15
Ser Ser Arg His Ser Val Val Pro Arg Glu Ala Glu Ala Glu Ser Gly
            20                  25                  30
Gly Glu Phe Leu Ile Pro Val Ala Phe Asp Pro Ser Glu Glu Gly Arg
        35                  40                  45
Ser Ser Arg Thr Gln Ser Pro Pro Thr Ala His Ser His His Pro Pro
    50                  55                  60
Ala Gly Ser Ala Ser Pro His Ile Ala Tyr Gln Glu Arg Gly Arg Glu
65                  70                  75                  80
Arg Thr Asp Val Asp Ser Ser Arg Trp Arg Gly Asp Asp Val Gly Ala
                85                  90                  95
Ser Ala Ser Ala Ser Pro Arg Ser Thr Asp Asn Leu Gln Arg Gly Thr
            100                 105                 110
Ser Asn Arg Ser Ser Arg Ala Asp Leu Pro Ile Asn Ser Lys Glu Thr
        115                 120                 125
Ser Thr Phe Ser Thr Pro Ser Pro Glu Ser Thr Lys Ser Ser Gly Ile
    130                 135                 140
Val Lys Asp Ser Ser Ile Val Asp Ser Ala Gly Ser Arg Thr Leu Asp
145                 150                 155                 160
Ser Ser Val Thr Ala Pro Ser Arg Pro Ser Asn Glu Leu Arg Glu Leu
                165                 170                 175
His Glu Lys Gly Gly Ser Val Asp Ser Thr Arg Ser Phe Ser Ser Pro
            180                 185                 190
Ser Thr Ala Gln Pro His Pro Ser Leu His His Gly Ala Gly Lys Cys
        195                 200                 205
Gly Ser Ile
    210
```

<210> 25962
<211> 100
<212> PRT
<213> A.fumigatus

<400> 25962

```
Tyr Tyr Phe Pro Leu Leu Ser Ile Ile Cys Ser Tyr Pro Ala Asp Arg
1               5                  10                  15
Leu Val Val Gln Leu Ser Asp Glu Trp Ala Asp Ser Gln Met Pro Val
            20                  25                  30
Asp Gly Thr Asn Gly Cys Leu Arg Ala Phe Thr Gln Leu Lys Thr Gln
        35                  40                  45
Tyr Ser Lys Leu Lys Val Ile Leu Ser Val Gly Gly Gly Gly Lys Gly
    50                  55                  60
Ser Glu Asn Phe Ala Ala Val Ala Gly Ser Gln Ser Ser Leu Glu Thr
65                  70                  75                  80
Phe Val Arg Thr Ala Lys Gly Leu Val Asp Glu Phe Gly Leu Asp Gly
                85                  90                  95
Ile Asp Ser Met
            100
```

<210> 25963
<211> 213
<212> PRT
<213> A.fumigatus

```
<400> 25963
Arg Leu Ala Val Asp Trp Glu His Pro Ser Thr Pro Ala Glu Gly Ser
1               5                  10                  15
Asp Tyr Val Arg Leu Leu Ala Arg Leu Arg Glu Val Leu Pro Ser Pro
            20                  25                  30
Arg Tyr Val Leu Ala Thr Cys Leu Pro Ala Gly Glu Trp Ala Leu Arg
        35                  40                  45
Asn Ile Asp Leu Cys Lys Ala Gln Asn Tyr Val Asp Leu Ile Asn Ile
    50                  55                  60
Met Ala Tyr Asp Phe Ser Gly Pro Trp Thr Ser Glu Thr Gly His Gln
65                  70                  75                  80
Ala Gln Leu Tyr Ser Pro Ser Arg Asp Pro Thr Gly Gly Ile Ser Cys
                85                  90                  95
Gln Ser Ala Ile Ala Tyr Val Ile Ala Gln Gly Val Asn Pro Lys Lys
            100                 105                 110
Ile Leu Leu Gly Ile Pro Ala Tyr Gly Arg Ser Phe Leu Gly Ser Asn
        115                 120                 125
His Ile Gly Gln Arg Tyr Ser Gly Cys Gly Gly Glu Asp Gly Val Phe
    130                 135                 140
Asp Tyr Cys Asp Leu Pro Arg Pro Gly Ala Lys Glu Tyr Ser Asp Glu
145                 150                 155                 160
Lys Ser Gly Ala Ala Trp Cys Val Gly Gly Asp Gly Gly Phe Val Thr
                165                 170                 175
Tyr Asp Thr Pro Glu Thr Val Gln Gln Lys Ala Gln Ile Cys Asp Gln
            180                 185                 190
Asp Gln Thr Gly Arg Ser Tyr Leu Met Ala Gln Arg Arg Gly Cys Thr
        195                 200                 205
Arg Asn Pro Phe Pro
    210
```

<210> 25964
<211> 72
<212> PRT
<213> A.fumigatus

<400> 25964

```
Ser Glu Pro Ser Ala Gly Val Glu Gly Cys Ser Gln Ser Thr Ala Ser
1               5                  10                  15
Arg Gln His Gln Pro Lys Gln Leu Glu Arg Thr Val Leu His Thr Ile
            20                  25                  30
Asn Pro Ile Glu Ser Lys Leu Ile Tyr Glu Ser Leu Arg Gly Pro Tyr
        35                  40                  45
Lys Gly Leu Gln Thr Ala Leu Thr Ser Arg Tyr Ser Ser Lys Ile Leu
    50                  55                  60
Thr Ser Leu Ala Ser Ser Ser Asp
65                  70
```

<210> 25965
<211> 101
<212> PRT
<213> A.fumigatus

<400> 25965

```
Arg Ser Leu Val Thr Arg Pro Val Glu Lys Trp Arg Ile Glu Lys Gly
1               5                  10                  15
Tyr Ile Phe Cys Gln Lys Val Ala Ala Leu Asp Ile Asp Leu Gln Ile
            20                  25                  30
Leu Leu Ser His Ile Ser Phe Asp Arg Asp Val Thr Tyr Ser Ala Val
        35                  40                  45
Pro Arg Met Val Trp Val Val Lys Arg Val Thr Val Pro Ser Arg Phe
    50                  55                  60
Gly Tyr Leu Ala Pro Cys Phe Pro Ala Phe Lys Tyr His Phe Pro Gln
65                  70                  75                  80
Leu Phe Asn Val Thr Gly Ile Ser Gly Pro Ser Glu Ser His Ala Asn
                85                  90                  95
Asn Gly Asn Arg Tyr
            100
```

<210> 25966
<211> 101
<212> PRT
<213> A.fumigatus

<400> 25966

```
Ser Pro Thr Met Pro Ile Asn Ser Phe Glu Gly Thr Gly Glu Pro Val
1               5                  10                  15
Gln Leu Pro Ser Ala Pro Asp Val Asp Ile Glu Asp Gly Ala Ser Asn
            20                  25                  30
Ser Leu Asp Asp Ala Ser Ile Ser Ile Ala Ile Ile Gly Met Gly Phe
        35                  40                  45
Arg Gly Pro Gly Asp Ala Ser Asn Val Glu Lys Leu Trp Lys Met Ile
    50                  55                  60
Leu Glu Gly Arg Glu Ala Trp Ser Gln Ile Pro Glu Ser Arg Trp Asn
65                  70                  75                  80
Ser Asp Ala Phe Tyr His Pro Asp His Ala Arg His Gly Thr Val Ser
                85                  90                  95
His Val Thr Val Lys
            100
```

<210> 25967
<211> 230
<212> PRT

<213> A.fumigatus

<400> 25967

```
Asn Ser Ser Gly Ile Leu Gln Gly Glu Lys Val Gly Thr Ile Phe Gln
1               5                  10                  15
Ile Gly Val His Thr Lys Phe Met Arg Pro Val Gly Leu Arg Thr Glu
            20                  25                  30
Val Ser Gly Glu Asn Asn Thr Ala Thr Tyr His Phe Val Glu Gly Asp
        35                  40                  45
Ile Asp Ser Val Pro Gly Pro Gly Ile Ala Gly Phe Tyr Asp Gly Pro
    50                  55                  60
Tyr Tyr Ser Tyr Tyr Lys Phe Pro Arg Ser Leu Ser Asp Pro Asp Gly
65                  70                  75                  80
Ser Glu Glu Glu Ser Leu Leu Glu Ala Tyr Asn Leu Leu Tyr Asp Ile
                85                  90                  95
Ile Asp Glu Asp Gly Pro Phe Asp Gly Ile Leu Gly Phe Ser His Gly
            100                 105                 110
Gly Thr Leu Ala Ser Gly Phe Leu Ile His Tyr Ala Lys Thr Tyr Pro
        115                 120                 125
His Glu Pro Pro Leu Phe Arg Cys Ala Ile Phe Ile Asn Ser Leu Pro
    130                 135                 140
Pro Phe Arg Met Asp Ser Gly Glu Asn Pro Val Ile Asp Ser Asp Leu
145                 150                 155                 160
Asp Gly Tyr Ile Lys Val Pro Thr Val Ser Ile Ala Gly Ala Lys Asp
                165                 170                 175
Ser Leu Phe Glu Tyr Ser Leu Ala Leu Tyr Arg Leu Cys Asp Pro Ser
            180                 185                 190
Arg Ser Thr Trp Ile Val His Ser Lys Ala His Asp Ile Pro Asn Asp
        195                 200                 205
Lys Lys Asn Val Ala Leu Met Ala Ala Gly Ile Arg Lys Leu Ala Ile
    210                 215                 220
Glu Ala Leu Ala Ile Trp
225                 230
```

<210> 25968
<211> 305
<212> PRT
<213> A.fumigatus

<400> 25968

```
Leu Ser Ala Asp Pro Ser Pro Pro Val Val Glu Asp Asp Thr Ala Pro
1               5                  10                  15
Asp Glu Thr Thr Pro Ala Gly Leu Leu Ser Val Leu Ala Thr His Ala
            20                  25                  30
Val Phe Gly Ala Ile His Gly Ser Thr Gln Ser Leu Ser Asp Gln His
        35                  40                  45
Pro Ser Tyr Glu Glu Ala Thr Val Leu Trp Asn Thr Tyr Val Gln Asn
    50                  55                  60
Val Glu Pro Leu Cys Lys Val Leu His Val Pro Thr Val Ala Lys Leu
65                  70                  75                  80
Val Asp Thr Ile Ala Lys Gln Pro Ala Ala Ala Ser Lys Ser Val Glu
                85                  90                  95
Cys Leu Leu Phe Ala Ile Tyr Tyr Ile Ala Val Phe Phe Met Ser Asp
            100                 105                 110
Ala Asp Cys Leu Gln Gln Phe Asn Gln Thr Lys Thr Gln Lys Met Ser
        115                 120                 125
```

```
Arg Tyr Arg Thr Ala Val Cys Gln Ala Leu Val Asn Ala Ser Trp Leu
    130                 135                 140
Lys Thr Thr Ala Met Pro Val Leu Gln Ala Tyr Thr Leu Phe Leu Ile
145                 150                 155                 160
Ala Met Arg Thr Gln Val Asp Ser His Thr Phe Trp Ile Leu Thr Gly
                165                 170                 175
Val Ala Ile Arg Leu Ala Gln Arg Met Gly Leu His Arg Asp Gly Glu
            180                 185                 190
Ser Leu Gly Leu Pro Pro Phe Glu Val Gln Met Arg Arg Arg Leu Phe
        195                 200                 205
Trp Gln Leu Leu Pro Leu Asp Gly Tyr Ala Gly Gln Val Cys Gly Thr
    210                 215                 220
Gly Ile Ser Ile Ser Pro Thr Ser Trp Asp Thr Lys Pro Pro Leu Asn
225                 230                 235                 240
Ile Asn Asp Asp Gln Ile Phe Pro Gly Met Thr Gln Lys Pro Gln Glu
                245                 250                 255
Gln Arg Gly Ala Ser Glu Met Ile Phe Cys Leu Ser Arg Ile Glu Leu
            260                 265                 270
Ser Asn Phe Tyr Ile Arg Thr Gly Ile Glu Met Lys Glu Ile Gly Gly
        275                 280                 285
Thr Ile Gln Phe Lys Asp Ala Lys Glu Ile Glu Arg Leu Val His Tyr
    290                 295                 300
Val
305
```

<210> 25969
<211> 193
<212> PRT
<213> A.fumigatus

<400> 25969

```
Lys Lys Leu Val Val Leu Tyr Asn Ser Arg Met Gln Lys Lys Leu Arg
1               5                   10                  15
Gly Ser Ser Thr Met Ser Asn Ile Ser Ser Glu Thr Lys Phe Leu Arg
            20                  25                  30
Tyr Cys Glu Ile Leu Asp Pro Leu His Val Phe Thr Met Gly Ile Val
        35                  40                  45
Arg Ser Ala Thr Asn Ala Val Arg Leu Arg Ala Gln Met Pro Leu Leu
    50                  55                  60
Leu Lys Gln Thr Ile Thr Asp Ala Gln Arg Arg Cys Leu Cys Ala Leu
65                  70                  75                  80
Ala Glu Lys Ile Leu Asp Thr Asn Ser Ala Ile Tyr Arg Asn Pro Ser
                85                  90                  95
Met Asn Arg Phe Arg Trp Gln Met Gln Ala Phe Phe Leu Trp Asp Ala
            100                 105                 110
Leu Leu Cys Ile Leu Leu Ser Leu Thr Gln Val Gly Phe Tyr Ser Thr
        115                 120                 125
Ser Glu Leu Asn Ser Thr Trp Asn Arg Val Ala Glu Val Tyr Ala Asn
    130                 135                 140
His Glu Tyr Leu Ile Lys Arg Lys Lys Ala Leu His Val Thr Ile Gly
145                 150                 155                 160
Arg Leu Thr Leu Lys Ala Trp Ile Ala Asn Pro Pro Ser Asn Ser Ser
                165                 170                 175
Pro Glu Pro Ala Phe Ile Thr Thr Leu Arg Ala Gln His Glu Pro Lys
            180                 185                 190
Val
```

<210> 25970
<211> 221
<212> PRT
<213> A.fumigatus

<400> 25970
Leu Phe His Leu Val Tyr Lys Leu Ala Ala Tyr Leu Pro Pro Ser Ile
1 5 10 15
Val Ser Phe Val Glu Asp Lys Val Ile Ser Ile Arg Arg Phe Leu Glu
20 25 30
Asp Asn Gly Ile Leu Pro Lys Lys Glu Glu Ser Ser Thr Gly Glu Ser
35 40 45
Lys Ala Val Thr Glu Ala Arg Glu Gly Leu Glu Lys Thr Lys Thr Ser
50 55 60
Leu Ala Glu Leu Tyr Thr Gln Leu Lys Asn His Gln Ala Asp Leu Glu
65 70 75 80
Thr Asp Tyr Gly Lys Ala Gly Val Phe Arg Ala Leu Lys Gly Val Cys
85 90 95
Ile Ser Lys Asp Ser Gly Glu Tyr Thr Tyr Glu His Cys Phe Leu Gly
100 105 110
Glu Thr Lys Gln Ile Pro Lys Lys Gly Gly Ala Thr Ile Arg Met Gly
115 120 125
Lys Phe Gly Arg Ile Gly Ser Val Ile Ile Asp Asn Val Asn Glu Thr
130 135 140
Gly Val Ile Val Pro Glu Glu Arg Val Ser Leu Glu Tyr Thr Asn Gly
145 150 155 160
Gln Thr Cys Trp Asn Gly Pro Ala Arg Ser Thr Thr Val Ile Leu Glu
165 170 175
Cys Gly Glu Glu Asn Glu Ile Leu Lys Val Thr Glu Asp Glu Lys Cys
180 185 190
Val Tyr Ser Met Ile Val Thr Thr Pro Ala Val Cys Pro Gly Gly Glu
195 200 205
Glu Glu Gly Asp Val Ala Pro Arg Arg Lys Asp Glu Leu
210 215 220

<210> 25971
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25971
Thr Cys Asp Leu Pro Ala Ala Cys Val Arg Arg Glu Glu Tyr Gly Ala
1 5 10 15
Arg Glu Asp Val Gly Asn Leu Gly Asn Ser Ala Arg Asp Arg Asp Leu
20 25 30
Asp Glu Ile Ala Lys Pro Asp Asp Asn Thr Ser Gly Val Asn Trp Glu
35 40 45
Gln Trp Glu Asn Glu Glu Asp Glu Thr Asp Ala Gly Ser Cys Leu Ile
50 55 60
Tyr Phe Ile Ala Tyr Ala Gly Ser Val Ala Asp Ser Ser Ile
65 70 75

<210> 25972
<211> 83

<212> PRT
<213> A.fumigatus

<400> 25972
Ser Gln Leu Lys Pro Thr Leu Gln Pro Arg Gly Glu Asp Thr Arg Leu
1 5 10 15
Tyr Glu Leu Ala Tyr Val Ala Tyr Gly Ile Ser Tyr Arg Gly Val Trp
20 25 30
Ile Pro Arg Leu Asn Cys Trp Asp Thr Ile Arg Gln Met Ala Asn Tyr
35 40 45
Ile Lys Thr Gln Gly Lys Trp Arg Leu Leu Asn Cys Thr Lys Asp Asp
50 55 60
Ala Pro Asn Pro Ala Ala Gln Ser Ser Ala Cys Val Arg Ile Met Thr
65 70 75 80
Ile Glu Asp

<210> 25973
<211> 61
<212> PRT
<213> A.fumigatus

<400> 25973
Leu Ile Pro Ala Ala Arg Leu Asp Asp Thr Ile Leu Asn Val Asp Ile
1 5 10 15
Cys Leu Met Ile Gly Tyr Pro Arg Asn Ile Tyr Asn Asn Val Arg Ser
20 25 30
Thr Tyr Ala Leu Arg Asp Leu Val Thr His Gly Trp Leu Gly Tyr Gln
35 40 45
Cys His Arg Glu Arg Gly Gly Thr Val Asp Thr Lys Gln
50 55 60

<210> 25974
<211> 78
<212> PRT
<213> A.fumigatus

<400> 25974
Glu Glu Glu Tyr Asp Pro Lys Leu Trp Ile Glu Ala Thr Val Lys Lys
1 5 10 15
Glu Met Leu Ser Val Pro Phe Asp Gln Phe Val Gln Leu Gln Leu Cys
20 25 30
Phe Cys Trp Cys Thr Val Ser Val Tyr Leu Thr Thr Ser Gly Asn Thr
35 40 45
Cys Met Tyr Gln Glu Cys Leu Ser Glu Thr Gln Leu Ala Ile Leu Asn
50 55 60
Val Leu Gly Trp Arg Ala Gln Pro Ala Asn Trp Leu Leu Thr
65 70 75

<210> 25975
<211> 207
<212> PRT
<213> A.fumigatus

<400> 25975
Lys Pro Lys Leu Arg Leu Ala Ala Arg Asn Arg Pro Lys Arg Ala Ser

```
1               5                   10                  15
Cys Pro Thr Thr Ser Thr Arg Asn Ser Gln Ser Gly Thr Thr Thr Tyr
            20                  25                  30
Ala Arg Asn Met Ala Ser Arg Trp Thr Ala Ala Thr Ser Thr Arg Arg
        35                  40                  45
Arg Thr Gly Ser Ser Leu Arg Trp Arg Ser Pro Ala Ser Ala Arg Ala
    50                  55                  60
Ala Arg Ser Ser Ser Gln Ser Pro Asn Gly Ser Thr Arg Pro Ser Pro
65                  70                  75                  80
Thr Gly Arg Ser Arg Ile Ser Thr Ile Gln Arg Gly Ala Ala Ser Ser
                85                  90                  95
Pro Ala Pro Ile Ser Ser Arg Gly Arg Ser Ser Ala Ala Ile Leu Arg
            100                 105                 110
Ser Trp Arg Cys Ser Val Leu Val Ala Asp Gly Arg Trp Arg Arg Trp
        115                 120                 125
Arg Ser Ser Met Ile Thr Pro Ile Gly Arg Arg Cys Arg Ser Gly Trp
    130                 135                 140
Arg Leu Leu Pro Lys Pro Trp Arg Ser Cys Arg Arg Ser Leu Ile Phe
145                 150                 155                 160
Gly Gly Met Gly Pro Thr Met Gly Ser Cys Lys Ile Lys Lys Asn Cys
                165                 170                 175
Ser Glu Leu Pro Val Trp Glu Leu Leu Ala Met Val Leu Arg Trp Ile
            180                 185                 190
Cys Pro Met Tyr Leu Leu Ile Met Ala Leu Ile Val Ala Ser Val
        195                 200                 205

<210> 25976
<211> 210
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (29)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25976
Tyr Pro Asp Pro Cys Ala Arg Gly Glu Asp Gly Pro Gly Leu Pro Ser
1               5                   10                  15
Thr Thr Tyr Thr Pro Thr Pro Ser Ser Ala Ser Thr Xaa Glu Gly Thr
            20                  25                  30
Asp Ser Phe Pro Ala Ser Leu Leu Lys Ala Gln Thr Pro Leu Gly Ser
        35                  40                  45
Lys Lys Pro Ser Lys Thr Gly Phe Val Pro His His Ile Tyr Gln Lys
    50                  55                  60
Gln Ser Ile Trp Tyr His Tyr Val Arg Gln Lys Tyr Gly Leu Pro Leu
65                  70                  75                  80
Asp Ser Arg His Leu Tyr Thr Lys Thr Asp Trp Glu Phe Phe Ala Met
                85                  90                  95
Ala Val Ala Ser Glu Arg Thr Arg Ser Glu Ile Leu Glu Ser Val Ala
            100                 105                 110
Lys Trp Val Asn Glu Thr Val Thr Asp Arg Pro Phe Thr Asp Leu His
        115                 120                 125
Asn Thr Glu Gly Arg Gly Glu Phe Pro Gly Pro Asn Phe Phe Ala Arg
    130                 135                 140
Pro Val Val Gly Gly His Phe Ala Phe Leu Ala Leu Gln Arg Ala Cys
```

```
145                 150                 155                 160
Gly Gly Arg Ala Met Glu Ala Leu Ala Phe Leu Asp Asp Asn Ser Asp
                165                 170                 175
Arg Glu Thr Leu Gln Glu Trp Met Ala Ala Ala Ala Lys Ala Val Glu
            180                 185                 190
Glu Leu Gln Thr Gln Ser Asp Ile Trp Gly Tyr Gly Ser Asp Asn Gly
        195                 200                 205
Glu Leu
    210
```

<210> 25977
<211> 234
<212> PRT
<213> A.fumigatus

<400> 25977

```
Asn Arg Ala Gly Ser Lys Phe Gly Gly Gly Gly Val Ala Ser His Ser
1               5                   10                  15
Ala Thr Asn Ala Asp Arg Arg Glu Arg Leu Arg Lys Leu Ala Leu Glu
            20                  25                  30
Thr Ile Asp Leu Asp Lys Asp Pro Tyr Phe Phe Lys Asn His Val Gly
        35                  40                  45
Ser Phe Glu Cys Arg Leu Cys Leu Thr Val His Gln Asn Asp Gly Ser
    50                  55                  60
Tyr Leu Ala His Thr Gln Gly Arg Lys His Gln Thr Asn Leu Ala Arg
65                  70                  75                  80
Arg Ala Ala Arg Glu Gln Arg Glu Gly Lys Asn Gln Asp Pro Ala Met
                85                  90                  95
Leu Pro Gly Ala Met Gly Val Gln Val Lys Lys Gln Ala Ile Lys Ile
            100                 105                 110
Gly Arg Pro Gly Tyr Lys Ile Thr Lys Ile Arg Asp Pro Leu Thr Arg
        115                 120                 125
Gln Leu Gly Leu Leu Phe Gln Leu Gln Tyr Gln Glu Ile Thr Pro Gly
    130                 135                 140
Val Lys Pro Arg Val Arg Phe Met Ser Ala Phe Glu Gln Lys Val Glu
145                 150                 155                 160
Glu Pro Pro Asp Lys Asn Phe Gln Tyr Leu Val Val Ala Ala Glu Pro
                165                 170                 175
Tyr Gln Thr Cys Gly Phe Lys Leu Gln Ala Arg Glu Ile Asp Arg Arg
            180                 185                 190
Glu Gly Arg Tyr Trp Thr Trp Phe Asp Glu Asp Ser Lys Glu Phe Trp
        195                 200                 205
Ile Gln Ile Met Phe Lys Thr Glu Arg Glu Glu Arg Phe Ser Gly Val
    210                 215                 220
Pro Gly Leu Ala Pro Met Gly Pro Lys Thr
225                 230
```

<210> 25978
<211> 84
<212> PRT
<213> A.fumigatus

<400> 25978

```
Phe Ser Glu Trp Asp Phe Ser Arg Glu Tyr Thr Leu Lys Thr His Ser
1               5                   10                  15
Leu Ser Leu Gly Tyr Phe Leu Arg Gly Ile Ala Tyr Leu Leu Ser Val
```

```
            20                  25                  30
Tyr Lys Asn Val Leu Phe His Arg Cys Met Ala Leu Gln Gly Ser Thr
        35                  40                  45
Phe Ile Val Asp Thr Leu Arg Pro Gly Glu Arg His Met Tyr Asp Leu
    50                  55                  60
Ala Lys Arg Gln Asn Ser Gln Ser Ser His Gly Leu His Ala Ser Glu
65                  70                  75                  80
Tyr Glu Arg Ser
```

<210> 25979
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25979

```
Leu Ala Lys Met Cys Cys Ile Arg Lys Glu Ser Lys Gly Asn Asn Thr
1               5                   10                  15
Ile Ile Phe Val Cys Leu Gln Glu Ile Asn Ser Lys Ile Gly Ala Met
            20                  25                  30
Ala Ile Lys Asp Lys Tyr Leu Phe Leu Ser Pro Leu Cys Ile Phe Ile
        35                  40                  45
Tyr Tyr Leu Asn Lys Ala Leu Lys Leu Leu Lys Gly
    50                  55                  60
```

<210> 25980
<211> 415
<212> PRT
<213> A.fumigatus

<400> 25980

```
Ala Gln Cys Leu Asn Leu Ser Glu Ala Leu Leu Pro Ile Gln Asn Thr
1               5                   10                  15
Thr Asp Thr Leu Asp Glu Phe Leu Arg His Ile Val Ala Lys Val Tyr
            20                  25                  30
Glu Pro His Ile Asp Leu Tyr Leu Ala Glu Glu Leu Asp His Phe Arg
        35                  40                  45
Lys Lys Ser Ala Ala Val Val Asp Glu Trp Asp Arg Gln Leu Ser Glu
    50                  55                  60
Gln Ala Ala Ser Thr Glu Ser Phe Leu Met Ser Asn Val Asn Arg Gln
65                  70                  75                  80
Ala Asp Lys Arg Asp Phe Leu Thr Ser Phe Lys Lys Val Ile Met Ala
                85                  90                  95
Pro Val Asn Ile Leu Pro Ser Phe Ser Ser Ser Lys Ser Ser Glu Thr
            100                 105                 110
Lys Ser Asp His Glu Ser Ile Gly Ser Glu Pro Ser Ser Ala Leu Lys
        115                 120                 125
Ser Pro Asn Arg Phe Ser Thr Ile Ala Ser Pro Ala Leu Thr Pro Thr
    130                 135                 140
Val Glu Ala Pro Pro Thr Thr Glu Leu Ala Ala Lys Ala Ala Val Met
145                 150                 155                 160
Lys Ser Lys Leu Glu Gly Ile Arg Ser Leu Phe Ser Ile Glu Ile Ala
                165                 170                 175
Leu Ser Val Ile His Ser Ala Lys Ser Ser Leu Asp Arg Ala Ala Gln
            180                 185                 190
Phe Val Lys Ile Gly Gly Glu Thr Gly Ala Ala Ala Lys Gln Gln Cys
```

```
        195                 200                 205
Glu Ala Ile Phe Val Ser Leu Leu Arg Ile Leu Gly His Gln His Leu
    210                 215                 220
Ile Val Gly Phe Asn Lys Ala Val Asp His Leu Ser Asn Tyr Arg Pro
225                 230                 235                 240
Arg Glu Gln Gly Glu Arg Asp Gln Ala Gly Val Glu Pro Leu Val Thr
                245                 250                 255
Phe Leu Glu Leu Val Asn Val Gly Asp Leu Ile Leu Gln Met Met Asp
            260                 265                 270
Val Phe Tyr Glu Gln Glu Leu Val Gly Ala Lys Ile Thr Asp Arg Asn
        275                 280                 285
Asp Phe Leu Asp Pro Ala Val Lys Glu Lys Lys Lys Phe Glu Gln Ile
    290                 295                 300
Leu Asp Glu Arg Val Ala Ala Gly Leu Asn Lys Gly Ile Asp Val Leu
305                 310                 315                 320
Met Glu Glu Val Asp Tyr Ile Leu Ala Thr Arg Gln Gln Ala Thr Asp
                325                 330                 335
Phe Asn Pro Asp Ala Ser Thr Asp Pro Tyr Arg Lys Thr Met Asp Val
            340                 345                 350
Ala Val Ser Glu Ala Ala Ala Ala Val Val Asp Val Val Ser Ser His
        355                 360                 365
Thr Gln Met Leu Val Gly Ser Thr Asp Lys Ser Thr Leu Asp Val Phe
    370                 375                 380
Asn Gln Glu Val Gly Leu Arg Leu Phe Thr Ala Leu Cys Lys His Leu
385                 390                 395                 400
Lys Arg Gln Arg Ile Ser Ile Glu Gly Ser Leu Lys Leu Ile Arg
                405                 410                 415
```

<210> 25981
<211> 60
<212> PRT
<213> A.fumigatus

<400> 25981

```
Ser Leu Arg Cys Lys Tyr Val Gly Phe Ser Cys Leu Val Leu Leu Pro
1               5                   10                  15
Ser Glu Arg Gly Trp Pro Arg Leu Arg Phe Tyr Ser Thr Phe Ile Leu
            20                  25                  30
Phe Asp Leu Val Phe Glu Pro Thr Glu Glu Leu Leu Asn Cys Leu Leu
        35                  40                  45
Ile Ala Leu Gly Ala Tyr Thr Lys Lys Val Leu Gln
    50                  55                  60
```

<210> 25982
<211> 67
<212> PRT
<213> A.fumigatus

<400> 25982

```
Pro Gly Leu Pro Met Ile His Val Leu Cys Ser Ser Thr Leu Tyr Val
1               5                   10                  15
Pro Lys Leu Val Ser Gly Lys Lys Gln Gly Thr Glu Ser Arg Ser Gln
            20                  25                  30
Gly Lys Tyr Arg Pro Ser Ile Thr Arg His Met Asp Arg Val Tyr Gly
        35                  40                  45
Ala Ser Thr Glu Leu Ser Phe Gly Leu Leu Ile Ala Val Gly Lys Ser
```

```
    50                  55                  60
Leu Val Ala
65

<210> 25983
<211> 110
<212> PRT
<213> A.fumigatus

<400> 25983
Val Ile Leu Ala Ile Ile Phe Leu Gly Phe Cys Leu Ser Cys Pro Leu
1               5                  10                  15
Leu Ile Ile Asn Phe Val Phe Leu Phe Thr Phe Leu Pro Leu Ser Gly
            20                  25                  30
Phe Glu Ile Ile Leu Ile Tyr Leu Ser Tyr Val Val Val Leu Gly Tyr
        35                  40                  45
Tyr Glu Ile Gln Tyr Pro His Ser Met Ala Arg Ile Ala Leu Ile Ser
    50                  55                  60
Gly Leu Thr Phe Lys Gln Ser Arg Glu Ile Met Tyr Arg Leu Cys Phe
65                  70                  75                  80
Leu Ser Thr Phe Gln Ala Gly Phe Cys Leu Ile Lys Leu Gly Gly Ile
                85                  90                  95
Met Ser Cys Gly Leu His Gln Ala Thr Asn Leu Tyr Thr Asp
            100                 105                 110

<210> 25984
<211> 141
<212> PRT
<213> A.fumigatus

<400> 25984
Thr Arg Cys His Ser Arg Arg Ser Pro Asn Leu Ala Ala Ala Ile Asn
1               5                  10                  15
Lys Met His Ile Ala Gln Leu Ser Asn Ser Ser Ala Ser His Ser Lys
            20                  25                  30
Ser Ser Gln Ser His Ser Thr Ser Ala Tyr Gly Pro Arg Pro Ser Thr
        35                  40                  45
Ser Ala Thr Asn Met Thr Asp Leu Ser Glu Glu Thr Ser Ser Val Asn
    50                  55                  60
Ala Lys Gln Ala Asn Pro Gln Leu Leu Thr Gln Tyr Leu Asn Lys Asp
65                  70                  75                  80
His Gly Leu Leu Val Gln Lys Thr Thr Ala Leu Ala Val Ser Gln Asn
                85                  90                  95
Val Asn Ala His Ala Phe Leu Ala Gly Val Glu Gly Met Leu Asn Arg
            100                 105                 110
Pro Tyr Leu Ser Asp Ile Asn His Gly Asp Asp Lys Met Gln Ala Leu
        115                 120                 125
Ala Gln His Ala Lys Leu Gly Lys Phe Asp Lys His Met
    130                 135                 140

<210> 25985
<211> 93
<212> PRT
<213> A.fumigatus

<400> 25985
```

```
Asn Ser Lys Val Val Gln Cys Ala Ser Cys Leu Leu Arg Gln Arg Gly
1               5                  10                  15
Trp Glu Ser Val Asp Tyr Gly Asn Glu Phe Thr Trp Phe Ser Ser Thr
            20                  25                  30
Val Pro Thr Asp Ile Glu Glu Pro Leu Pro Leu Leu Met Arg Phe Gln
        35                  40                  45
Ile Val Leu Ala Leu Leu Thr Val Glu Arg Val Leu Thr Tyr Arg Thr
    50                  55                  60
Leu Ala Gly Phe Val Ser Asp Asn Asn Leu Glu Leu Ser Val Ala Gly
65                  70                  75                  80
Thr Glu Lys Arg Val Leu Leu Ala Thr Thr Ser Ser Pro
                85                  90
```

<210> 25986
<211> 164
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5),(16),(28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25986

```
His Gly Glu Asp Xaa Asp Leu Ala Leu Gln Arg Glu Thr His Ser Xaa
1               5                  10                  15
Ser His Lys Thr Thr Tyr Val Ser Thr Ser Val Xaa Arg Ala Pro Glu
            20                  25                  30
Phe Leu Leu Arg Ala Gly Glu Tyr Ser Ala Pro Val Asp Met Trp Ala
        35                  40                  45
Val Gly Ala Met Ala Val Glu Ile Ala Thr Leu Lys Pro Leu Phe Pro
    50                  55                  60
Gly Gly Asn Glu Val Asp Gln Val Trp Arg Ile Cys Glu Ile Met Gly
65                  70                  75                  80
Ser Pro Gly Asn Trp Tyr Ser Lys Ser Gly Thr Lys Leu Gly Gly Gly
                85                  90                  95
Glu Trp Arg Glu Gly Ser Arg Leu Ala Gln Lys Leu Gly Phe Thr Phe
            100                 105                 110
Pro Lys Val Arg Arg Phe Val Leu Val Thr Glu Leu Glu Arg Ile Ala
        115                 120                 125
Asn Val Gly Arg Thr Asp Gly Ala Ser Phe Tyr Gly Glu His Pro Ala
    130                 135                 140
Ala Ser Ser Leu Ala Cys Ile Phe Glu Pro Phe Arg Asp Leu Val Pro
145                 150                 155                 160
Asp Val Gly Pro
```

<210> 25987
<211> 358
<212> PRT
<213> A.fumigatus

<400> 25987

```
Gly Ser His Phe Gln Arg Tyr Gly Asp Ser Ser Trp Ser Arg Ser Ser
1               5                  10                  15
Arg Glu Leu Leu Thr Ser Val Glu Gln Met Ala Pro His Ser Met Glu
```

```
            20                  25                  30
Ser Ile Leu Gln Pro Pro His Trp Pro Ala Ser Leu Ser His Phe Val
        35                  40                  45
Thr Trp Cys Leu Met Trp Asp Pro Lys Asn Arg Pro Thr Ser Thr Gln
    50                  55                  60
Ala Leu Asn His Glu Tyr Phe Ala Asp Ala Val Asp Pro Leu Arg Pro
65                  70                  75                  80
Lys Ser Ser Thr Ser Arg Leu Leu Gly Arg Lys Gln Ser Asp Arg Ser
                85                  90                  95
Phe Arg Ser Pro Thr Pro Gln Ser Ser Asp Ser Pro Ser Val Ser Ser
            100                 105                 110
Lys Pro Ser Trp Phe Arg Arg Ser Leu Ile Gly Arg Ser Glu Ser Pro
        115                 120                 125
Ala Pro Ala Leu Glu Thr Asp Gln Ala Val Arg Pro Ser Val Val Ser
    130                 135                 140
Tyr Asn Thr Thr Pro Asp Leu Gln Ala Asn Lys Thr Arg Pro Ala Ala
145                 150                 155                 160
Ala Lys Arg Ala Thr Trp Ala Asn Gly Ala Pro Met Pro Ile Leu Pro
                165                 170                 175
Ser Ile Arg Pro Val Ser Pro Leu Ser Asn Ala Val Thr Ala Gln Ala
            180                 185                 190
Ser Ser Thr Leu Ala His Gly Gly Asp Asn Ala Gln Ser Gly Ala Ala
        195                 200                 205
Lys Ala Ser Lys Lys Ile Gly Arg Gln Leu Ser Leu Asn Ser His Gly
    210                 215                 220
Asn His Tyr Ala Asp Val His Arg Gln Glu Ala Glu Arg Thr Leu Asn
225                 230                 235                 240
Gly Ala Gly Thr Thr Asn Ala Thr Leu Asn Gln Lys Glu Ser Phe Phe
                245                 250                 255
Ser His Leu Arg Lys Arg Ala Arg Arg Leu Ser Gly Arg Asn Gln Ala
            260                 265                 270
Asn Leu Ala Thr Asp Asp Ile Glu Ala Asn Ala Gly Cys Met Pro Trp
        275                 280                 285
Ser Asn Arg Ser Ser Leu Ala Leu Asp Ser Val Asn Ala Gly Asp Ala
    290                 295                 300
Lys Gln Asn Ser Asp Leu Asn Asp Leu Asp Arg Ala Leu Gln Asn Val
305                 310                 315                 320
Lys Tyr Ser Leu Asp Ser Ala Ala Leu Gly Asn Val Pro Val Gln Ile
                325                 330                 335
Thr Ser Thr Gly Asp Val Ser Lys Pro Gln Phe Phe Thr Thr Asn Ser
            340                 345                 350
Arg Pro Ala Leu Thr Asn
        355
```

<210> 25988
<211> 136
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (132)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25988
Ser Ser Ser Gly Ile Ser Asn Ala Leu Leu Ser Leu Trp Thr Leu Thr

```
1               5                   10                  15
Asn Arg His Ser Cys Phe Thr Asp Cys Ala Ala Ala Thr Val Leu Ala
            20                  25                  30
Tyr Glu Ala Ala Glu Ala Asp Val Leu Leu Arg Pro Pro Arg Lys Pro
        35                  40                  45
Lys Lys Glu Arg Leu Val Asn Trp Lys Leu Ile Leu Gln Ala Tyr Gly
    50                  55                  60
Val Ile Gly Met Leu Glu Thr Leu Thr Ser Phe Ala Met Ala Tyr Trp
65                  70                  75                  80
Tyr Leu Gln Arg Asn Gly Ile Pro Phe Ser Ala Leu Trp Phe Lys Phe
                85                  90                  95
Gly Val Val Pro Ala Asn Val Asp Pro Asp Trp Tyr Thr Ala Arg Leu
            100                 105                 110
Asn Glu Ala Ser Ser Val Tyr Phe Ile Asn Leu Val Val Met Tyr Ala
        115                 120                 125
Ala Pro His Xaa Ala Cys Thr Arg
    130                 135
```

<210> 25989
<211> 148
<212> PRT
<213> A.fumigatus

```
<400> 25989
Ser Pro Cys Ala Gly Ala Gly Ser Cys Gly Arg Arg Thr Trp Met Leu
1               5                   10                  15
Ala Asp Cys Leu Gln Ser Arg Ala Pro Leu Asp Ile Leu Ile Asp Arg
            20                  25                  30
Cys Thr His Val Val Asn Val Asp Gly Asn Val Gln Ala Leu Asn Ala
        35                  40                  45
Ser Thr Leu Thr Arg Leu Lys Gln Ile Lys Asp Gln Trp Ser Asn Glu
    50                  55                  60
Gly Lys Arg Val Ile Leu Leu Ala Arg Lys Thr Phe Ser Ala Gly Gln
65                  70                  75                  80
Ile Gln Ser Ser Pro Leu Ser His Leu Phe Glu Ala Glu Val Met Asn
                85                  90                  95
Gln Ile Lys Thr Gly Leu Val Leu Val Gly Leu Val Gly Ile Val Asp
            100                 105                 110
Pro Pro Arg Asp Glu Ile Pro Asp Val Val Arg Thr Leu Arg Arg Ala
        115                 120                 125
Gly Ile Arg Ile Phe Met Val Gly Val Ala Ser Ser Pro Phe Ile Tyr
    130                 135                 140
Lys Ser Gly Asp
145
```

<210> 25990
<211> 203
<212> PRT
<213> A.fumigatus

```
<400> 25990
Ser Glu Trp Tyr Lys Val Thr Gly Asp Phe Gly Leu Thr Ala Leu Glu
1               5                   10                  15
Ile Ala Arg Gln Cys Gly Ile Val Thr Ala Gly Val Thr Val Asp Asp
            20                  25                  30
Ala Thr Ala Leu Lys Arg Tyr Pro Ser Val Asn Asp Lys Phe Asn Glu
```

```
        35                  40                  45
Lys Ser Arg Ser Pro Ala Ile Ser Leu Ser Gly Arg Glu Leu Met Ala
    50                  55                  60
Leu Asn Glu His Gln Trp Asp Gln Leu Gly Gln Tyr Glu Glu Ile Val
65                  70                  75                  80
Phe Trp Arg Thr Thr Pro Glu Gln Lys Leu Arg Ile Val Arg Glu Phe
                85                  90                  95
Gln Ala Arg Glu Glu Ile Val Gly Met Thr Gly Asp Gly Val Asn Asp
            100                 105                 110
Ala Pro Ser Leu Lys Ala Ala Asp Ile Gly Ile Ala Leu Gly Ser Gly
        115                 120                 125
Ser Asp Ile Ala Ile Glu Ala Ser Asp Met Val Leu Leu Asp Ser Phe
    130                 135                 140
Ser Ala Ile Val Glu Ala Val Gln Tyr Gly Arg Val Val Phe Asp Asn
145                 150                 155                 160
Leu Lys Lys Thr Ile Ile Tyr Leu Leu Pro Ala Gly Ser Trp Ser Glu
                165                 170                 175
Phe Trp Pro Val Met Thr Ser Val Val Phe Gly Leu Pro Gln Val Leu
            180                 185                 190
Ser Ser Phe Leu Met Ile Ile Ile Trp Tyr Phe
        195                 200
```

<210> 25991
<211> 91
<212> PRT
<213> A.fumigatus

<400> 25991

```
Met Met Val Phe Phe Lys Leu Ser Lys Thr Thr Arg Pro Tyr Cys Thr
1               5                   10                  15
Ala Ser Thr Ile Ala Glu Lys Glu Ser Arg Arg Thr Met Ser Asp Ala
            20                  25                  30
Ser Met Ala Ile Ser Asp Pro Leu Pro Ser Ala Met Pro Ile Ser Ala
        35                  40                  45
Ala Leu Ser Asp Gly Ala Ser Leu Thr Pro Ser Pro Val Met Pro Thr
    50                  55                  60
Ile Ser Ser Arg Ala Trp Asn Ser Arg Thr Ile Arg Ser Phe Cys Ser
65                  70                  75                  80
Gly Val Val Leu Gln Lys Thr Ile Ser Ser Tyr
                85                  90
```

<210> 25992
<211> 64
<212> PRT
<213> A.fumigatus

<400> 25992

```
Leu Lys Gly Val Leu Val Ile Val Cys Leu Ser Tyr Cys Ala Glu Ile
1               5                   10                  15
Pro Glu Arg Gln Ser Ser Ala Met Ser Ser Ala Val Ala Glu Leu Glu
            20                  25                  30
Asn Tyr Leu Gln Ser Met Leu Ala Leu Lys Pro Pro Gly Val Ser Gly
        35                  40                  45
Ser Lys Ile Asn Ser Ile Thr Ser Leu Cys Thr Ala Asn Val Gln Val
    50                  55                  60
```

<210> 25993
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (61)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25993
Trp Gly Cys Ala Leu Lys Gly Pro Phe Ile Pro Lys Gly Leu Val Asn
1 5 10 15
Ile Pro Gly Pro Lys Thr Ala Ser Ile Arg Ala Phe Gly Tyr Ala Thr
20 25 30
Arg Asn Val His Trp Gly Pro Ala Leu Pro Val Gly Trp Pro Cys Leu
35 40 45
Glu Arg Gly Phe Tyr His Gly Arg Val Thr Glu Ser Xaa Gln
50 55 60

<210> 25994
<211> 230
<212> PRT
<213> A.fumigatus

<400> 25994
Gly Leu Lys Ala Tyr Ala Ala Asp Leu Pro Ser Ser His Ala Ser Phe
1 5 10 15
Val Leu Ser Asn Asn Cys Ser Val Tyr His Leu Gly Ser Cys Glu Leu
20 25 30
Leu Ser Ile Met Arg Glu Val Asn Phe Ser Ile Pro Asn Val Asn Lys
35 40 45
Ala Tyr Val Asn Ile Ser Thr Thr Leu Tyr Asp Arg Arg Ala Leu Asp
50 55 60
Cys Thr Ser Thr Leu Pro Leu Ile Asn Ser Leu Asn His Leu Ala Tyr
65 70 75 80
Leu Thr Thr Ser Ser Ala Arg Ile Arg Asp Ile Leu Thr Val Asp Gly
85 90 95
Gly Ile Glu Arg Leu Val Cys Ile Leu Lys Glu Gly Arg Ser Arg Asp
100 105 110
Leu Met Glu Met Trp Lys Trp Ser Leu Ala Phe Gln Cys Val Val Asn
115 120 125
Ile Gly Val Arg Gly Ser Glu Ser Val Arg Thr Arg Val Val Glu Ala
130 135 140
Asp Met Val Pro Val Ile Ala Thr Ile Leu Asp Asn Tyr Ile Lys Val
145 150 155 160
Val Asp Lys Ala Arg Ala Arg Ala Asp Ser Glu Ser Gln Arg Gln Ser
165 170 175
Ser Arg His His Ser Lys Ala Val Pro Thr Ser Asn Asp Val Ser Gly
180 185 190
Arg Pro Ser Phe Leu Glu Gln Pro Leu Thr Ala Glu Gln Arg Thr Ser
195 200 205
Arg Arg His Ala Pro Pro Ser Leu Glu Ile Pro Pro Val Leu Asp Ser
210 215 220
Gly Pro Trp Lys Ile Arg
225 230

<210> 25995
<211> 73
<212> PRT
<213> A.fumigatus

<400> 25995
Ile Glu Met Asp Ser Tyr Phe Thr Arg Tyr His Glu Val Lys Thr Ala
1 5 10 15
Glu Val Glu Lys Gly Leu Asp Ile His Met Gly Tyr Met Asp Asn Ala
20 25 30
Val Met Ser Tyr Ala Cys Phe Gly Val Tyr Glu Glu Leu Ala Lys Tyr
35 40 45
Leu Val Gln Arg Tyr Pro Asn Asn Phe Arg Leu Gln Lys Tyr Tyr Pro
50 55 60
Ala Gln Leu Thr Arg Glu Gln Phe Gln
65 70

<210> 25996
<211> 106
<212> PRT
<213> A.fumigatus

<400> 25996
Phe Val Val Lys Ser Trp Leu Gln Ile Asn Asp Leu Val Val Glu Pro
1 5 10 15
Trp Gln Ser Asp Phe Thr Met Asn His Phe His Ala Met Pro Tyr Asp
20 25 30
Lys Ala Leu Lys Arg Gly Ala Lys Ser Leu His Phe Ser Thr Phe Pro
35 40 45
Ile Leu Pro Asn Lys Ser His Val Leu Gly Pro Leu Gly Met Val Ile
50 55 60
Gly Gln Arg Val Arg Pro Trp Leu Gln Ile Lys Lys Val Asp His Tyr
65 70 75 80
Gly Phe Gln Leu Pro Lys Ile Leu Ile Val Ser Arg Leu Tyr Leu Pro
85 90 95
Leu Phe Leu Lys Asn Ser Phe Gly Ser Leu
100 105

<210> 25997
<211> 660
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 25997
Asp Ser Ala Leu Ala Val Ile Leu Gly Asn Thr Val Ser Ser Ser Phe
1 5 10 15
His Thr Arg Phe Cys Thr Gly Glu Xaa Glu Val Arg Arg Glu Lys Cys
20 25 30
Ala Ser Leu Val Glu Met Ala Ala Thr Ala Ala Gly Gln Ser Ser Met
35 40 45

```
Pro Trp Lys Ser Tyr Phe Asp Arg Leu Gly Arg Ser Gly Met Thr Phe
    50                  55                  60
Thr Arg Cys Ile Lys Ala Cys Glu Asp Asn Arg Gly Ser Tyr Lys Ile
65                  70                  75                  80
Pro Pro Pro Pro Thr Arg His Ser Gly Arg Ser Gly Val Ala Tyr Pro
                85                  90                  95
Arg Pro Pro Pro Gln Leu Val Arg Leu Thr Ser Gly Thr Leu Ile Val
            100                 105                 110
Val Pro Pro Asn Leu Val Asp His Trp Glu Glu Gln Ile Ala Arg His
        115                 120                 125
Ser Gln Gly Leu Lys Val Leu Val Leu Arg Asn Met Ser Asn Ala Thr
    130                 135                 140
Pro Asn Ser Asp Asp Leu Leu Gln Tyr Asp Ile Ile Leu Phe Ser Arg
145                 150                 155                 160
Trp Arg Phe Asp Gln Glu Ala Gly Glu Ala Val Asn Asn Arg Arg Gly
                165                 170                 175
Val Phe Asn Asn Thr Met Glu Ser Pro Leu Phe Ser Leu His Trp Leu
            180                 185                 190
Arg Ile Ile Ile Asp Glu Gly His Asn Val Ala Gly Ser Ser Gln Thr
        195                 200                 205
Ser Arg Thr Arg Tyr Leu Leu Asp Lys Leu His Ile Glu Arg Arg Trp
    210                 215                 220
Ile Val Ser Gly Thr Pro Ser Ser Gly Leu Tyr Gly Val Glu Val Ser
225                 230                 235                 240
Leu Ala Ser His Glu Thr Asn Thr Ser Ser Asp Thr Asp Leu Ser Glu
                245                 250                 255
Ala Thr Glu Ala Val Leu Gln Glu Lys Arg Lys Ile Glu Ala Arg Asp
            260                 265                 270
Asp Gln Asp Leu Arg Lys Leu Lys Pro Ile Val Val Asn Phe Phe Asp
        275                 280                 285
Leu Lys Pro Trp Ser Asn Pro Leu Ser Asn Asp His Ala Glu Trp Thr
    290                 295                 300
Lys Tyr Met Arg Leu Val Gly Lys Asp Gly Lys Arg Arg Lys Val Gln
305                 310                 315                 320
Ala Leu Arg Ala Thr Leu Gln Ser Leu Val Val Arg His Arg Met Glu
                325                 330                 335
Val Ile His Ser Glu Ile Thr Leu Pro Arg Leu Tyr Asn Lys Val Val
            340                 345                 350
Tyr Leu Glu Pro Thr Phe Tyr Asp Lys Leu Asn Leu Asn Leu Phe Ile
        355                 360                 365
Phe Val Leu Ala Val Asn Ala Ile Thr Ser Glu Arg Glu Gly Asp Asp
    370                 375                 380
Tyr Met Phe His Thr Lys Asn Lys Lys His Leu Arg Thr Leu Ile Asn
385                 390                 395                 400
Asn Leu Arg Gln Ala Gly Phe Trp Trp Ala Gly Ser Asn Leu Asp Leu
                405                 410                 415
Ser Ala Thr Val Lys Asn Ala Leu Glu Tyr Leu Glu Lys Lys Arg Ala
            420                 425                 430
His Met Arg Gln Glu Asp Ile Thr Thr Leu Thr Glu Gly Ile Glu Ile
        435                 440                 445
Ala Glu Lys Ala Phe Ser Ser Gly Pro Trp Asn Ala Phe Arg Gln Leu
    450                 455                 460
Asn Glu Leu Gly Val Tyr Val Arg Asp Phe Pro Ser His Ala Arg Gly
465                 470                 475                 480
Leu Trp Ala Leu Asp Pro Ser Lys Pro Asp Ala Glu Pro Leu His Met
                485                 490                 495
```

```
Gly Ile Tyr Gln Ala Cys Arg Ala Gln Gln Phe Val Lys Glu His Leu
            500                 505                 510
Lys Ser Val Asp Pro Ala Glu Gly Leu Ala Gly Ala Gly Ile Lys Ala
        515                 520                 525
Arg Arg Glu Gln Thr Glu Ala Ala Lys Arg Gln Gly Pro Glu Leu Gly
    530                 535                 540
Phe Ala Thr Phe Pro Lys Ala Ser Lys Lys Ala Pro Lys Lys Ser Phe
545                 550                 555                 560
Ser Lys Gly Leu Met Lys Ser Leu Pro Pro Asp Ser Pro Leu Thr Gln
                565                 570                 575
Thr Lys Leu Leu Gly Thr Thr Ser Ala Lys Leu Ser Tyr Leu Leu Ser
            580                 585                 590
Arg Val Met Glu Leu His Ser Glu Glu Thr Ile Ile Ile Phe Tyr Asp
        595                 600                 605
Ser Thr Asn Ser Gly Val Trp Ile Ala Glu Gly Leu Asp Leu Leu Gly
    610                 615                 620
Ile Glu Tyr Ser Met Tyr Ala Ser Thr Leu Ser Pro Glu Leu Arg Thr
625                 630                 635                 640
Ser Tyr Leu Asn Leu Leu Arg Glu Ser Glu Glu Asn Pro Ile Ile Leu
                645                 650                 655
Met Gly Leu Arg
            660
```

<210> 25998
<211> 123
<212> PRT
<213> A.fumigatus

```
<400> 25998
Thr Val Tyr Val Thr Met Val Met Tyr Gly Pro Thr Ala Phe Leu Thr
1               5                   10                  15
Lys Ile Ser Leu Leu Trp Ile Met Thr Arg Val Phe Ser Pro Tyr Arg
            20                  25                  30
Lys Ala Val Phe Phe Ile Tyr Ile Phe Leu Val Ile Met Leu Leu Tyr
        35                  40                  45
Tyr Ile Pro Ala Val Ile Val Lys Ile Arg Ile Cys Asn Pro Ile Gly
    50                  55                  60
Lys Phe Trp Asp Asp Ser Ile Asn Gly Ser Cys Leu Asp Gln Ser Ala
65                  70                  75                  80
Ile Ile Leu Ala Asp Ala Val Val Ser Val Val Ser Asp Ala Ile Ile
                85                  90                  95
Leu Ile Leu Pro Leu Pro Leu Thr Leu Ser Leu Gln Met Ser Met Arg
            100                 105                 110
Lys Lys Val Arg Val Thr Gly Pro Leu Gly Ala
        115                 120
```

<210> 25999
<211> 72
<212> PRT
<213> A.fumigatus

```
<400> 25999
Pro Tyr Leu His Ile Leu Glu Ser Arg Gly Tyr Pro Thr Val Gln Leu
1               5                   10                  15
Thr Leu Asn Val Ala Phe His Ile Ile Met Asn Asp His Val His Ser
            20                  25                  30
```

```
Ser His Val Ile Cys Leu Thr Ala Val Trp Pro Gln Ile Thr Arg Ile
        35                  40                  45
Ile Thr Ile Lys Lys Tyr His Ser Leu Glu Ala Met Ser Lys Pro Ser
    50                  55                  60
Ile Asn Tyr Tyr Leu Ser Ser Ser
65                  70
```

<210> 26000
<211> 510
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (149)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26000

```
Arg Thr Lys Gly Gly Leu His Ser Pro Phe Lys Arg Tyr Glu Glu Pro
1               5                   10                  15
Gly Arg Ser Thr Gln His Arg Leu Arg Asp Ser Thr Leu Thr Pro Ser
            20                  25                  30
Lys Pro Lys Ser Phe Phe Phe Ser Ser Tyr Ala Thr Leu Thr Ala Val
        35                  40                  45
Val Arg Glu Ala Ser Tyr Ala Thr Leu Pro Pro Ile Thr Ile Arg Gly
    50                  55                  60
Arg Ser Phe His Phe Ala Pro Leu Gly Pro Ile Ala Ile Ile Leu Ala
65                  70                  75                  80
Asn Leu Val Val Val Leu Val Phe Cys Phe Tyr Lys Leu Asp Thr Thr
                85                  90                  95
Asn Lys Trp Lys Trp Glu Asp Val Gly Tyr Arg Thr Gly Phe Val Ala
            100                 105                 110
Ile Ser Gln Leu Pro Leu Ile Phe Leu Leu Ala Gly Arg Gln Asn Ile
        115                 120                 125
Ile Gly Leu Phe Val Gly Leu Ser Tyr Lys Arg Leu Asn Trp Phe His
    130                 135                 140
Arg Trp Ile Ser Xaa Thr Leu Trp Leu Thr Ala Thr Ile His Met Gly
145                 150                 155                 160
Phe Trp Phe Arg Asn Trp Ala Arg Tyr Asp Tyr Ile Thr Tyr Glu Leu
                165                 170                 175
Gln Asn Asp Val Leu Thr Gln Arg Gly Phe Ala Ala Trp Cys Ile Leu
            180                 185                 190
Thr Phe Ile Val Ile Ser Ser Ala Ala Pro Ile Arg Arg Leu Ser Tyr
        195                 200                 205
Glu Leu Phe Val Leu Gln His Leu Val Thr Phe Ala Gly Phe Leu Ala
    210                 215                 220
Ala Val Trp Leu His Ala Arg Ala Glu Val Lys Ala Trp Val Trp Ile
225                 230                 235                 240
Ser Ile Gly Phe Leu Val Phe Asp Arg Val Ala Arg Tyr Val Trp Ala
                245                 250                 255
Ala Tyr Ala Asn Leu Ser Ile Phe His Ala Ser Lys Ser Asn Pro His
            260                 265                 270
Pro Leu Trp Ala Asn Val Ala Thr Phe Thr Pro Leu Pro Gly Asn Val
        275                 280                 285
Thr Arg Ile Thr Val Glu Asn Pro Gly Val Arg Trp Lys Pro Gly Gln
    290                 295                 300
```

```
His Val Phe Leu Thr Cys His Ser Ile Val Pro Leu Gln Ser His Pro
305                 310                 315                 320
Phe Thr Ile Thr Ser Ile Pro Asp Asp Gly Lys Met Glu Phe Phe Val
                325                 330                 335
Arg Ala Glu Lys Gly Gly Thr Arg Arg Phe Phe Arg Tyr Ala Ser Lys
            340                 345                 350
His His Leu Ala Leu Gly Ser Gly Glu Val Ser Thr Ala Gln Arg Pro
        355                 360                 365
Arg Thr Val Phe Ile Asp Gly Pro Tyr Gly Arg Ile Arg Ala Leu Arg
    370                 375                 380
Gln Phe Asp Ser Val Val Leu Leu Ala Gly Gly Met Gly Ala Thr Phe
385                 390                 395                 400
Thr Ile Pro Leu Leu Arg Asp Ile Val Ala Gly Trp Lys Ala Glu Cys
                405                 410                 415
Ala Gly Asn Ser Thr Arg Arg Ile Ala Ala Thr Lys Arg Ile Arg Phe
            420                 425                 430
Val Trp Val Ile Lys Ser Arg Ala Gln Leu Ser Trp Phe Glu Thr Gln
        435                 440                 445
Ile Gln Ser Val Leu Ser Asp Val Asp Lys Cys Arg Gln Ala Gln Pro
    450                 455                 460
Asp Met Ile Arg Glu Trp Glu Val Ser Ile Tyr Ile Thr Cys Glu Leu
465                 470                 475                 480
Glu Thr Gly Thr Pro Thr Asn Arg Lys Thr Pro Gly Leu Gln Thr Ala
                485                 490                 495
Ile Phe Leu Pro Thr Lys Thr Pro Lys Gly Ile Glu Pro Pro
            500                 505                 510

<210> 26001
<211> 157
<212> PRT
<213> A.fumigatus

<400> 26001
Arg Glu Ile Phe Ser His Phe Gly Asn Leu Thr Tyr Pro His Ile Leu
1                   5                   10                  15
Ile Asp Leu Ala Phe Met Val Ser Asp Ser Lys Asp Asp Thr Leu Gly
            20                  25                  30
Met Leu Thr Arg Met Leu Glu Glu Val Gln Asn Asp Pro Asp Pro Lys
        35                  40                  45
Met Thr Phe Gly Glu Ile Ser Val Ile Gln Lys Asp Phe Gly Gln Lys
    50                  55                  60
Val Gln Gln Asp Val Glu Ser Arg His Gly Phe Ala Ala Gln Ala Gly
65                  70                  75                  80
Arg Arg Lys Leu Met Ala Gln Ala Arg Asn Trp Leu Leu Ser Ala Thr
                85                  90                  95
Leu Arg Pro Thr His Ser Trp Val Tyr Trp Arg Asp Ala Asp Val Glu
            100                 105                 110
Thr Ala Pro Arg Thr Ile Leu Glu Asp Leu Met Arg His Asp Lys Asp
        115                 120                 125
Val Ile Val Pro Ser Arg Leu Tyr Pro Leu Asp Phe Cys Asp Leu Arg
    130                 135                 140
Ser Asn Arg Pro Gly Asn Arg Cys Leu Ala Thr Thr Pro
145                 150                 155

<210> 26002
<211> 148
```

<212> PRT
<213> A.fumigatus

<400> 26002
Cys Gly Met Thr Lys Met Ser Leu Tyr Pro Val Gly Cys Thr Leu Trp
1 5 10 15
Ile Phe Ala Ile Cys Asp Leu Ile Gly Leu Ala Ile Asp Val Trp Arg
20 25 30
Pro Leu Pro Asp Trp Leu Gly Gly Glu Gln Pro Tyr Asp Leu Asn Ser
35 40 45
Trp Gln Glu Ser Glu Thr Ala Leu Ala Leu Ala Glu Thr Leu Asp Glu
50 55 60
Asp Ala Val Ile Val Glu Gly Tyr Ala Glu Tyr Ala Thr Trp Arg Pro
65 70 75 80
His Leu Ala Tyr Leu Arg Asp Pro Phe Gly Asp Pro Asp Met Glu Met
85 90 95
Glu Leu Asp Gly Val Gly Gly Val Ser Ile Leu Ala Lys Ala Lys Val
100 105 110
Phe Arg Ser Gly Val His Phe Pro Ala Phe Ser Phe Glu Lys His Ala
115 120 125
Glu Thr Glu Ala Phe Gly Lys Val Ser Val Val Leu Ile Pro Cys Ala
130 135 140
Val Arg Lys Cys
145

<210> 26003
<211> 96
<212> PRT
<213> A.fumigatus

<400> 26003
Met Ala Lys Arg Met Gly Leu Ser Val Ile Gly Leu Pro His Tyr Thr
1 5 10 15
Ile Trp His Leu Tyr Glu Pro Ser Val Asp Asp Leu Arg His Met Glu
20 25 30
Glu Met Glu Gln Glu Arg Lys Ala Arg Glu Arg Glu Glu Lys Glu Gln
35 40 45
Ala Glu Arg Ala Glu Arg Met Lys Ala Leu Phe Val Glu Pro Gly Pro
50 55 60
Gln Trp Asp Ile Asp Lys Ala Phe Val Gln Asp Ser Ile Gln Thr Asp
65 70 75 80
Lys Glu Gly Arg Phe Gln His Ala Thr Asp Gly Gln Leu Ser Asn Leu
85 90 95

<210> 26004
<211> 220
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26004
Cys Tyr Xaa Cys Arg Gly Ala Pro Lys Leu Cys Arg Asn Phe Gln Thr

```
1               5                   10                  15
Asn Cys Ile Thr Leu Ser Arg Val Leu Leu Leu Thr Gln Val Ser
            20                  25                  30
Tyr Val Tyr His Leu Phe Ser Asn Asp Gly Ala Ile Ala Asn Ala Ala
        35                  40                  45
Ala Asn Val Gly Ser His Phe Ile Leu Asn Asn Leu Phe Thr Leu Ala
    50                  55                  60
Trp Ile Leu Leu Trp Thr Arg Gly His Phe Trp Ala Ser Glu Val Met
65                  70                  75                  80
Leu Ala Ala Asn Tyr Leu Asn Gln His Ala Ala Tyr Trp Arg His Arg
                85                  90                  95
Thr Leu Pro Thr Phe Val His Leu Ser Ala Ile Ala Gly Pro Tyr Ala
            100                 105                 110
Trp Thr Leu Met Ala Leu Phe Trp Asn Gly Ala Val Ala Val Gly Ser
        115                 120                 125
Asn Ser Phe Pro Ala Arg Ile Ala Ala Asn Ile Phe Ile Trp Leu Ile
    130                 135                 140
Phe Ala Phe Gly Ser Thr His Ile Leu Ala Thr Gln Asp Asp Leu Leu
145                 150                 155                 160
Gly Tyr Cys Leu Thr Phe Leu Thr Leu Gly Lys Ser Gly Leu Pro Cys
                165                 170                 175
Met Gly Glu Thr Gln Arg Leu Thr Leu Cys Ser Leu Gly His Arg Ala
            180                 185                 190
Thr Ser Asn Gln Gly His Cys Ser Ala Met Asp Leu Cys Leu Cys His
        195                 200                 205
Leu Arg Ser Leu Pro Arg Arg Val Asp Leu Pro Leu
    210                 215                 220
```

<210> 26005
<211> 71
<212> PRT
<213> A.fumigatus

<400> 26005

```
Leu Phe Ala Ala Leu Ala Ile Glu Gln Leu Ala Ile Lys Val Ile Ala
1               5                   10                  15
Leu Gln Trp Ile Phe Ala Phe Val Ile Phe Ala Val Phe Leu Val Glu
            20                  25                  30
Ser Ile Tyr Leu Ser Ser Thr Lys Tyr Ser Gly Arg Asp Ser Leu Phe
        35                  40                  45
Arg Arg Ile Thr Glu Pro Glu Pro Thr Asp Arg Glu Arg Glu Pro Leu
    50                  55                  60
Leu Asn Ser Ala Ala Asn Pro
65                  70
```

<210> 26006
<211> 62
<212> PRT
<213> A.fumigatus

<400> 26006

```
Leu Leu Met Cys Thr Lys Ser His Glu Leu Tyr His Val Leu Ser Pro
1               5                   10                  15
Leu His Leu Leu Pro Leu Pro Ser Ser Leu Leu Pro Leu Thr Gln Ile
            20                  25                  30
Ser Asp Asn Asn Pro Ser Asp Trp Leu Lys Leu Ile Asp Tyr Leu Leu
```

```
        35                  40                  45
Glu Leu Thr Phe Cys Cys Val Val Leu Leu Tyr Cys Leu Pro
    50                  55                  60

<210> 26007
<211> 148
<212> PRT
<213> A.fumigatus

<400> 26007
Val Ser Gly Arg Ile Ser Gly Ala Arg Ser Ala Ser Gln Leu Pro Cys
1               5                   10                  15
Arg Val Phe Thr Leu Ser Val Arg Gln Gln Ala Val Ser Arg Gly Thr
            20                  25                  30
Val Leu Cys Glu Ile His Gln Asn His Ala Ser Arg Lys Asn Gly Trp
        35                  40                  45
Thr Asp Ala His Tyr Ser Met His Gln His Tyr Leu Val Pro Pro Val
    50                  55                  60
Ala Gly Pro Met Ala Arg Ser Ile Thr Thr Ile Glu Tyr Phe Met Gln
65                  70                  75                  80
Ser Leu Leu Asp Ser Asn Pro Trp Asp Ile Asp Pro Gly Cys Ile Pro
                85                  90                  95
Ile Pro Trp Arg Lys Glu Leu Ala Ala Met Pro Asp Arg Lys Leu Lys
            100                 105                 110
Leu Gly Val Ile Phe Asp Asp Gly Val Val Lys Pro Gln Pro Pro Ile
        115                 120                 125
Thr Arg Ala Leu Arg Glu Val Thr Arg Lys Leu Ala Ala Ala Gly His
    130                 135                 140
Glu Gly Ile Leu
145

<210> 26008
<211> 91
<212> PRT
<213> A.fumigatus

<400> 26008
Trp Tyr Ala Cys Cys Leu Ser Leu Ser Thr Ser Ala Asp Lys Thr Gln
1               5                   10                  15
Met Ser Asp Ser Tyr Asn His Ile Phe Gly Gln Ser Ile Asn Ala Phe
            20                  25                  30
Asn His Glu Leu Ile Ser Gly Gly Ser Ser Gly Gly Glu Gly Ala Leu
        35                  40                  45
Leu Gly Ala Arg Gly Ser Ile Leu Gly Ile Gly Thr Asp Ile Gly Gly
    50                  55                  60
Ser Ile Arg Ile Pro Ala Ala Leu Gln Gly Leu Tyr Ser Ile Cys Pro
65                  70                  75                  80
Thr Thr Gly Arg Val Pro Trp Asp Cys Ser Leu
                85                  90

<210> 26009
<211> 304
<212> PRT
<213> A.fumigatus

<220>
```

<221> UNSURE
<222> (7),(11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26009

```
Phe Thr His His Phe Cys Xaa Pro Ser Ala Xaa Ile Asp His Gly Leu
1               5                  10                  15
Tyr Asp Gly Thr Leu Leu Arg Ile Phe Gly Glu His Phe Gln Ala Tyr
            20                  25                  30
Gln Asp Asn Val Pro Val Asp Arg Phe Thr Ser Phe Lys Asp Phe Ala
        35                  40                  45
Phe His Ile Trp Gln Met Asp Lys Ser Arg Thr Leu Ser Phe Trp Lys
    50                  55                  60
Gln Ser Glu Lys His Pro Ile Ala Phe Glu Phe Pro Ser Ser Ser Gly
65                  70                  75                  80
Thr Glu Pro Arg Ile Asn Ser Val His Val His Thr Ile Asn Leu Glu
                85                  90                  95
Phe Asp Ala Phe Ala Lys Ser Thr Gly Ala Thr Val Ser Ile Ile Phe
            100                 105                 110
Gln Ser Ile Phe Gln Leu Trp Leu Ala Leu Arg Ser Asn Gln Arg Asp
        115                 120                 125
Val Ala Phe Asp Tyr Leu Tyr Thr Gly Arg Asn Ile Asp Leu Pro Asp
    130                 135                 140
Pro Gln Thr Ile Asn Gly Thr Cys Ala Asn Phe Leu Pro Met Arg Ser
145                 150                 155                 160
Lys Val Asp Pro Ser Met Pro Val Ser Glu Phe Leu Arg Gln Thr Gln
                165                 170                 175
Asp Glu Phe Trp Gln Tyr Thr Glu Asn Ser Thr Val Gly Met Asp Glu
            180                 185                 190
Ile His Glu Ala Cys Glu Thr Thr Arg Glu Gly Phe Ser Asn Lys Thr
        195                 200                 205
Leu Phe Leu Phe Gln Pro Phe Glu Pro Ala Pro Ala Thr Ala Lys Gln
    210                 215                 220
Tyr Glu Lys Trp Ile Val Met Ala Lys Ser Gln Val Thr Met Pro Gln
225                 230                 235                 240
Pro Tyr Ala Val Val Phe Glu Val Val Lys Thr Ala Asp Val Asn Glu
                245                 250                 255
Tyr Lys Leu Lys Phe Ala Phe Asp Lys Arg Val Tyr Glu Lys Glu Gln
            260                 265                 270
Val Gln Gly Glu Ala Gln Val Ile Glu Lys Leu Leu Ala Lys Val Met
        275                 280                 285
Glu Asn Ala Glu Ala Ser Val Gly Asp Val Leu Gly Ser Phe Arg Ser
    290                 295                 300
```

<210> 26010
<211> 229
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7),(11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26010

```
Leu Arg Ile Thr Phe Ala Xaa Arg Gln Leu Xaa Ser Thr Thr Ala Cys
```

```
1               5                   10                  15
Thr Thr Glu Arg Phe Ser Ala Tyr Ser Ala Ser Thr Ser Arg Leu Thr
            20                  25                  30
Lys Thr Met Phe Leu Trp Thr Ala Ser Leu His Ser Lys Thr Leu His
        35                  40                  45
Ser Thr Ser Gly Arg Trp Thr Ser Arg Ala Arg Cys Arg Ser Gly Ser
    50                  55                  60
Asn Leu Arg Ser Thr Leu Leu Pro Ser Asn Ser Pro Ala Ala Val Ala
65                  70                  75                  80
Pro Asn His Val Ser Thr Leu Cys Met Ser Thr Pro Ser Thr Leu Ser
                85                  90                  95
Leu Met Arg Ser Pro Ser Pro Pro Val Pro Leu Ser Pro Ser Ser Ser
            100                 105                 110
Ser Pro Ser Ser Ser Ser Gly Trp Arg Cys Ala Ala Thr Asn Ala Thr
        115                 120                 125
Ser Leu Ser Thr Thr Ser Thr Pro Val Ala Thr Leu Thr Cys Leu Thr
    130                 135                 140
Leu Lys Pro Ser Thr Ala Pro Val Gln Thr Ser Phe Pro Cys Gly Arg
145                 150                 155                 160
Lys Trp Thr Arg Gln Cys Leu Cys Arg Asn Ser Phe Val Lys Pro Arg
                165                 170                 175
Met Asn Ser Gly Ser Thr Pro Lys Thr Val Arg Ser Ala Trp Thr Arg
            180                 185                 190
Ser Thr Lys Pro Val Lys Arg Arg Val Lys Asp Ser Arg Thr Lys Leu
        195                 200                 205
Ser Ser Ser Ser Ser His Leu Asn Arg Pro Arg Arg Gln Gln Ser Asn
    210                 215                 220
Met Arg Ser Gly Leu
225
```

<210> 26011
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26011

```
Ser Pro Ser Asn Asn Cys Gly Ser Gly Leu Leu Arg Gly Glu Asp Leu
1               5                   10                  15
Val Leu Tyr Tyr Gln Phe Asp Val Arg Ala Leu Arg Lys Leu Glu Ile
            20                  25                  30
Trp Tyr Ile Ala Ile Ile Thr Ser Leu Val Ser Ile Pro Ala Ile Val
        35                  40                  45
Phe Leu Phe Ile His Thr Pro Glu Lys Gly Pro Met Tyr Gly Gly Val
    50                  55                  60
Thr Val Ser
65
```

<210> 26012
<211> 397
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (270)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26012
Ala Leu Asp Pro Pro Val Ala Thr Leu Asp Glu Phe Val Lys Gln Val
1 5 10 15
Leu Pro Ala Asp Ile Leu Ser Lys Lys Asp Leu Thr Val Thr Pro Pro
20 25 30
Ser Ala Asp Ile Asn Leu Pro Arg Ser Ser Val His Gly Gly Leu Gly
35 40 45
Glu Thr Asp Met Leu Lys Leu Leu Glu Thr Tyr Arg Lys Gln Ile Asp
50 55 60
Ile Ser Gly Lys Ser Tyr Leu Gly Thr Gly Tyr Tyr Pro Thr Ile Val
65 70 75 80
Pro Pro Val Ile Leu Arg Asn Ile Leu Glu Asn Pro Ala Trp Tyr Thr
85 90 95
Ser Tyr Thr Pro Tyr Gln Pro Glu Ile Ser Gln Gly Arg Leu Glu Ser
100 105 110
Leu Leu Asn Phe Gln Thr Leu Thr Ala Asp Leu Thr Gly Leu Pro Phe
115 120 125
Ala Asn Ala Ser Val Leu Asp Glu Ala Thr Ala Ala Ala Glu Ala Met
130 135 140
Thr Met Ser Leu Ala Thr Leu Pro Met Ala Lys Gln Lys Lys Pro Gly
145 150 155 160
Lys Ala Tyr Val Val Ser His Leu Cys His Pro Gln Thr Ile Ala Val
165 170 175
Met Gln Ser Arg Ala Glu Gly Phe Gly Ile Asn Leu Val Val Gly Asp
180 185 190
Ile Met Ala Asn Asp Phe Glu Leu Val Lys Lys Gln Gly Asp Asn Leu
195 200 205
Ile Gly Val Leu Ala Gln Tyr Pro Asp Thr Glu Gly Gly Val Tyr Asp
210 215 220
Phe Gln Ala Leu Ser Asp Ser Ile His Ala Ala Gly Gly Thr Phe Ser
225 230 235 240
Val Ala Thr Asp Leu Leu Ala Leu Thr Leu Leu Lys Ala Pro Gly Glu
245 250 255
Phe Gly Ala Asp Ile Ala Phe Gly Asn Ala Gln Arg Phe Xaa Val Pro
260 265 270
Met Gly Phe Gly Gly Pro His Ala Ala Phe Phe Ala Cys Ala Asp Lys
275 280 285
Tyr Lys Arg Lys Val Pro Trp Thr Val Val Arg Gly Val Gln Gly Thr
290 295 300
Ser Gly Gln Pro Gly Leu Glu Asp Gly Phe Gly Arg Pro Gly Lys Asn
305 310 315 320
Thr Ser Val Gly Glu Lys Ala Thr Ser Asn Ile Cys Thr Ala Gln Ala
325 330 335
Leu Leu Ala Asn Met Ser Ala Ile Tyr Ala Val Tyr His Gly Pro Gly
340 345 350
Arg Pro Gln Val Asp Arg Ser Ala Cys His Gly His Asp Ile Asp Ala
355 360 365
Ala Gly Glu Ala His Cys Leu Gly Leu Gln Cys Ser Cys Gln Gly Gln
370 375 380
Arg Tyr Phe Arg His Pro Asp Cys Arg Val Trp Gln Gln
385 390 395

<210> 26013
<211> 93
<212> PRT

<213> A.fumigatus

<400> 26013

```
Gly Asp Arg His Gln Val His Ser Pro Gln Leu Gly Thr Asp Leu Pro
1               5                  10                  15
Leu Ser Tyr Pro Pro Gly Val Gln His Thr Pro Phe Arg Asn Arg Asn
            20                  25                  30
Ala Thr Ile His Pro Pro Pro Arg Val Glu Arg Ser Val Ser Arg Ser
        35                  40                  45
Phe His Asp Ser Ser Trp Leu Leu His Asp Glu Ala Gln Arg Asn His
    50                  55                  60
Arg Asp Asp Pro Arg Leu Leu Ala Arg Val Leu Pro Asp Pro Pro Leu
65                  70                  75                  80
His Ala Arg Arg Gln Ser Gln Gly Val His Ala Asp Asp
                85                  90
```

<210> 26014
<211> 422
<212> PRT
<213> A.fumigatus

<400> 26014

```
Val Pro Tyr Met Arg Tyr Thr Thr Val Pro Ala Gly Leu Lys Ser Ile
1               5                  10                  15
Ala Gln Arg Val Met Ala Met Thr Ser Thr Leu Gln Glu Lys Leu Thr
            20                  25                  30
Ala Leu Gly Tyr Asn Val Pro Val Lys Gly Ser Ala Ile Phe Asp Thr
        35                  40                  45
Leu Thr Val Glu Phe Gly Ser Ser Glu Glu Ala Asp Ala Leu Ile Ala
    50                  55                  60
Thr Ala Gln Glu Gln Asn Ile Phe Ile Arg Arg Val Ser Ser Ser Lys
65                  70                  75                  80
Val Gly Ile Ser Leu Asp Glu Thr Val Gly Arg Glu Glu Val Lys Ser
                85                  90                  95
Leu Leu Gln Val Phe Ala Lys His Ala Gly Lys Gly Glu Val Glu Leu
            100                 105                 110
Ser Glu Glu Ile Gly Ile Lys Ser Ile Pro Pro Asn Leu Glu Arg Thr
        115                 120                 125
Ser Pro Tyr Leu Thr His Pro Val Phe Asn Thr His His Ser Glu Thr
    130                 135                 140
Glu Met Leu Arg Tyr Ile Arg His Leu Glu Ser Lys Asp Leu Ser Leu
145                 150                 155                 160
Ala His Ser Met Ile Pro Leu Gly Ser Cys Thr Met Lys Leu Asn Ala
                165                 170                 175
Thr Thr Glu Met Ile Pro Val Ser Trp Pro Glu Phe Ser Gln Ile His
            180                 185                 190
Pro Phe Met Pro Ala Asp Lys Ala Lys Gly Tyr Thr Gln Met Ile Asp
        195                 200                 205
Asp Leu Glu Arg Gln Leu Ala Asp Ile Thr Gly Met Ala Glu Ile Thr
    210                 215                 220
Val Gln Pro Asn Ser Gly Ala Gln Gly Glu Phe Ala Gly Leu Arg Val
225                 230                 235                 240
Ile Lys Lys Tyr His Glu Ala Asn Gly Gly Glu Lys Arg Asn Ile Cys
                245                 250                 255
Leu Ile Pro Val Ser Ala His Gly Thr Asn Pro Ala Ser Ala Ala Met
            260                 265                 270
```

```
Ala Gly Met Arg Val Val Ser Ile Lys Cys Asp Thr Lys Thr Gly Asn
        275                 280                 285
Leu Asp Leu Ala Asp Leu Lys Ala Lys Cys Glu Lys His Lys Asp Glu
    290                 295                 300
Leu Ala Ala Ile Met Ile Thr Tyr Pro Ser Thr Phe Gly Val Tyr Glu
305                 310                 315                 320
Pro Gly Val Lys Glu Ala Cys Glu Ile Val His Gln His Gly Gly Gln
                325                 330                 335
Val Tyr Met Asp Gly Ala Asn Met Asn Ala Gln Ile Gly Leu Cys Ser
            340                 345                 350
Pro Gly Glu Ile Gly Ala Asp Val Cys His Leu Asn Leu His Lys Thr
        355                 360                 365
Phe Cys Ile Pro His Gly Gly Gly Gly Pro Gly Val Gly Pro Ile Gly
    370                 375                 380
Val Ala Glu His Leu Arg Pro Phe Leu Pro Ser His Pro Ala Ser Glu
385                 390                 395                 400
Tyr Leu Gln Ser Lys Arg Ala Ala Thr Ser Ser Pro Pro Ile Ser Ala
                405                 410                 415
Ala Pro Trp Gly Ser Ala
            420
```

<210> 26015
<211> 275
<212> PRT
<213> A.fumigatus

<400> 26015

```
Gly Ala Thr Pro Arg Ser Ser Ala Asp Gly Gly Arg Arg Gly Arg Arg
1               5                   10                  15
Thr Leu Gly Leu Gln Val Leu Thr Gly Arg Val Arg Arg Gln Glu Arg
            20                  25                  30
Thr Gln Val Leu Gly Asn Ala Asn Gly Thr His Ala Gly Ala Thr Thr
        35                  40                  45
Ala Val Gly Asn Ala Glu Arg Leu Val Gln Val Gln Val Ala His Ile
    50                  55                  60
Gly Thr Asn Leu Thr Gly Arg Ala Gln Thr Asp Leu Arg Val His Val
65                  70                  75                  80
Gly Ala Ile His Val Asp Leu Ser Ala Val Leu Val Asp Asn Leu Thr
                85                  90                  95
Gly Leu Leu Asn Thr Trp Leu Val His Thr Lys Gly Ala Arg Val Gly
            100                 105                 110
Asp His Asp Gly Cys Lys Phe Ile Leu Val Phe Leu Ala Phe Gly Leu
        115                 120                 125
Glu Val Ser Gln Val Gln Val Ala Gly Leu Gly Val Ala Leu Asp Arg
    130                 135                 140
Asp His Thr His Thr Gly His Gly Gly Thr Gly Gly Val Gly Ala Met
145                 150                 155                 160
Ser Arg Asp Arg Asp Gln Ala Asp Ile Ala Leu Leu Ala Ser Val Gly
                165                 170                 175
Phe Met Val Leu Leu Asp Asp Thr Gln Thr Ser Lys Leu Ala Leu Ser
            180                 185                 190
Thr Arg Val Gly Leu His Gly Asp Leu Gly His Ala Gly Asp Val Gly
        195                 200                 205
Glu Leu Pro Phe Glu Val Val Asn His Leu Arg Val Pro Leu Gly Phe
    210                 215                 220
Val Gly Gly His Glu Gly Val Asp Leu Gly Glu Leu Gly Pro Gly Asp
```

225 230 235 240
Gly Asp His Leu Gly Gly Cys Val Glu Leu His Arg Ala Gly Ala Lys
245 250 255
Arg Asn His Gly Met Ser Glu Arg Gln Ile Phe Arg Leu Glu Val Ala
260 265 270
Asp Val Ser
275

<210> 26016
<211> 289
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (89)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26016
Ala Ile Asp Leu Arg Pro Ala Gly Thr Val Val Tyr Arg Ile Tyr Gly
1 5 10 15
Thr His Val Gly Lys Gln Ser Leu Ser Gly Ala Asn Val Ala Ser Gly
20 25 30
Leu Phe Pro Asp Gly Cys Val Phe Pro Gly Ser Ala Glu Thr Ile Phe
35 40 45
Lys Pro Arg Leu Pro Arg Arg Ser Leu Asp Pro Pro Asn Asn Arg Pro
50 55 60
Trp Asn Leu Pro Leu Val Leu Val Gly Ala Gly Lys Glu Ser Cys Val
65 70 75 80
Arg Thr Thr Glu Ser His Arg Asp Xaa Glu Ser Leu Gly Ile Pro Lys
85 90 95
Arg Asp Ile Arg Thr Glu Leu Thr Gly Ser Leu Glu Glu Gly Gln Cys
100 105 110
Glu Glu Ile Gly Ser Asn Ala Glu Gly Ala Thr Ser Gly Val Asp Ala
115 120 125
Val Ala Gln Ser Leu Glu Ile Val His Thr Thr Leu Gly Ile Gly Val
130 135 140
Leu Arg Glu Asn Thr Asn Glu Val Val Thr Leu Phe Leu His Gln Leu
145 150 155 160
Lys Val Val Arg His Asp Val Thr His His Gln Ile Asp Pro Glu Ser
165 170 175
Phe Ser Ala Arg Leu His Asp Gly Asn Gly Leu Arg Val Ala Gln Met
180 185 190
Gly His His Ile Arg Leu Ala Gly Leu Leu Leu Leu Ser His Gly Glu
195 200 205
Gly Gly Gln Arg His Gly His Gly Leu Gly Gly Ser Gly Ser Leu Ile
210 215 220
Gln Asp Gly Ser Ile Gly Glu Trp Gln Ala Gly Gln Ile Gly Gly Gln
225 230 235 240
Gly Leu Glu Val Gln Glu Arg Phe Gln Thr Ala Leu Thr Asp Phe Arg
245 250 255
Leu Val Gly Cys Val Ala Gly Val Pro Ser Gly Val Phe Gln Asn Val
260 265 270
Ala Glu Asp Asn Arg Gly Asn Asn Gly Gly Val Val Ala Gly Ser Gln
275 280 285
Val

<210> 26017
<211> 61
<212> PRT
<213> A.fumigatus

<400> 26017
Phe Met Asp Arg Lys Asn Ala Leu Lys Thr Thr Ser His Ile Ile Gln
1 5 10 15
Gly Ile Leu His His Phe Thr Ala Glu Leu Gln Ile Gly Gln Ser Glu
20 25 30
Leu Leu Thr Thr Ala Asn Thr Ala Tyr Val Ile Val Ala Asp Asp Pro
35 40 45
Arg Glu Ser Phe Asp Trp Gln Leu Lys Ile Ile Asn Thr
50 55 60

<210> 26018
<211> 191
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (143)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26018
Ser Gly Leu Ile Val Leu Leu Gly Gln His Lys Ser Pro Ala Lys Thr
1 5 10 15
Ser Thr Val Asp Leu Glu Pro Phe Val Arg Lys Val Val Leu Asn Ala
20 25 30
Met Val Lys Ile Val Cys Glu Ile Leu Cys Lys Pro Gly Phe Lys Glu
35 40 45
Phe Tyr Leu Glu Lys His Arg Trp Tyr Val Glu Lys Leu Trp Arg Tyr
50 55 60
Val Gly Arg Leu Val Pro Asp Ile Pro Asn Tyr Gln Thr Glu Gly Arg
65 70 75 80
Thr Arg Ile Ala Gln Ile Ile Ala Lys Gly Gln Gly Leu Ser Val Asp
85 90 95
Met Leu Leu Thr Pro Leu Glu Tyr Val His Tyr Phe Pro Glu Ser Asp
100 105 110
Asp Val Phe Asp Pro Ile Glu Met Val Asn Met Asp Pro Thr Asn Asp
115 120 125
Arg Ser Pro Gly Glu Leu Arg Arg Leu Trp Phe Arg Ile Lys Xaa Ala
130 135 140
Tyr Thr Pro Val Thr Tyr Ile Arg Ala Asn Phe Glu Glu Ser Ser Asn
145 150 155 160
Thr Glu Leu Val Phe Arg Ser Glu Val Leu Leu Met Pro Glu Asn Ser
165 170 175
Ala Ala Leu Ile Pro Glu Ser Leu Ile Ser Gly Leu Asp Gly Asn
180 185 190

<210> 26019
<211> 122
<212> PRT

<213> A.fumigatus

<400> 26019
Gly Val Asn Tyr Leu Leu Ala Pro Val Asn Phe Gly Ile Leu Leu Ala
1 5 10 15
Phe Pro Arg Leu Arg Val Trp Ala Ala Pro Ala Gly Phe Val Thr Met
20 25 30
Ser Leu Ala Leu Ala Leu Ser Ser Leu Ser Thr Thr Thr Thr Glu Leu
35 40 45
Ile Ile Ser Gln Gly Val Phe Tyr Gly Leu Gly Ala Ser Val Ala Tyr
50 55 60
Thr Pro Thr Ile Ile Phe Met Asp Glu Trp Phe Ala Arg Arg Lys Gly
65 70 75 80
Leu Ala Phe Gly Ile Met Trp Val Ser Ile Pro Thr Leu Cys Ser Leu
85 90 95
Tyr Tyr His Thr Lys Lys Lys Arg Arg Gln Glu Gln Val Ser Pro Val
100 105 110
Ser Tyr Phe Gln Leu Cys Tyr Asn Gly Phe
115 120

<210> 26020
<211> 114
<212> PRT
<213> A.fumigatus

<400> 26020
Phe Cys Asp Glu Ala Leu Ser Thr Glu Gly Gly Glu Tyr Thr Ala Leu
1 5 10 15
Val Thr Thr Pro Ile Lys Arg Glu Asn Val Asn Asp Arg Trp Thr Val
20 25 30
Ala Tyr Thr Ala Val Gly Glu Ser Phe Thr Phe Gly Asp Lys Glu Ile
35 40 45
Pro Ala Lys Pro Glu Asp Phe Glu Phe Ala Ser Arg Phe Trp Ser Leu
50 55 60
Ala Glu Lys Leu Leu Ala Glu Gly Lys Ile Lys Pro His Arg Pro Arg
65 70 75 80
Val Cys Pro Asp Gly Leu Lys Gly Val Leu Asn Gly Leu Gln Leu Met
85 90 95
Arg Glu Gly Lys Val Ser Gly Glu Lys Leu Val Tyr Asn Val Ala Glu
100 105 110
Thr Pro

<210> 26021
<211> 70
<212> PRT
<213> A.fumigatus

<400> 26021
Lys Lys Lys Lys Ala Gly Thr Gly Leu Ala Gly Val Val Leu Pro Val
1 5 10 15
Val Leu Gln Trp Leu Leu Asn Thr Tyr Gly Tyr Arg Val Thr Leu Arg
20 25 30
Ala Trp Ala Val Ile Leu Phe Val Leu Ala Ala Pro Leu Leu Tyr Phe
35 40 45
Val Lys Pro Ala Arg Ala Tyr Leu Gly Val Val Gln His Ala His Val

```
    50                  55                  60
Gln Pro Leu Phe Arg Pro
65                  70

<210> 26022
<211> 111
<212> PRT
<213> A.fumigatus

<400> 26022
Val His Met Pro Asn Ala Trp Val Trp Pro Ala Asn Met Ser Gln Gly
1               5                   10                  15
Arg Pro Met Arg Val Arg Asn Asn Ala Tyr Ile Gln Asn Trp Glu Glu
            20                  25                  30
Asn Arg Arg Glu Glu Met Lys Glu Leu Thr Ser Lys Gly Ile Ile Pro
        35                  40                  45
Val Glu His Asp Phe Glu Asn Leu Gly Asp Asp Val Asp Asp Glu Thr
    50                  55                  60
Leu Asp Asn Ala Arg Pro Phe Leu Met Gly Lys Val Ser Ala Val Val
65                  70                  75                  80
Ser Glu Lys Lys Pro Ala Lys Ala Ile Val Asp Glu Ile Val Ser Asp
                85                  90                  95
Ala Ala Ala Leu Leu Lys Gln Gly Asn Arg Met Leu Ala Lys Leu
            100                 105                 110

<210> 26023
<211> 296
<212> PRT
<213> A.fumigatus

<400> 26023
Arg Ser Val Ser Ser Val Glu Gln Ile Arg Thr Thr Val Thr Asp Leu
1               5                   10                  15
Val Lys Ile Asn His Pro Val Leu Val Ala Gly Met Asn Val Ala Ala
            20                  25                  30
Gly Pro Lys Leu Ala Ala Ala Val Thr Asn Ala Gly Gly Leu Gly Val
        35                  40                  45
Ile Gly Gly Val Gly Tyr Thr Pro Glu Met Leu Arg Glu Gln Ile Ala
    50                  55                  60
Glu Leu Lys Ser Tyr Leu His Asp Lys Asn Ala Pro Phe Gly Val Asp
65                  70                  75                  80
Leu Leu Leu Pro Gln Val Gly Gly Ser Ala Arg Lys Thr Lys Ser Glu
                85                  90                  95
Leu Leu Pro Phe Tyr Ile Tyr Ser Met Leu Gly Pro Arg Met Leu Thr
            100                 105                 110
Arg Leu Phe Ser Ser Tyr Asp Tyr Thr Lys Gly Lys Leu Asn Glu Leu
        115                 120                 125
Val Asp Ile Ile Ile Gln Glu Gly Ala Lys Leu Phe Val Ser Ala Val
    130                 135                 140
Gly Val Pro Pro Lys His Val Val Glu Lys Leu His Ala Ala Gly Val
145                 150                 155                 160
Leu Tyr Met Asn Met Ile Gly His Pro Lys His Val Gln Lys Ala Leu
                165                 170                 175
Asp Ala Gly Ala Asp Ile Ile Cys Ala Gln Gly Gly Glu Gly Gly Gly
            180                 185                 190
His Thr Gly Asp Val Pro Thr Thr Ile Leu Ile Pro Thr Val Ala Lys
```

```
        195                 200                 205
Leu Cys Gln Gly Lys Lys Ser Pro Met Thr Gly Gln Pro Val Gln Val
    210                 215                 220
Val Ala Ala Gly Gly Leu Phe Asn Gly Asn Ser Leu Ala Ala Ala Leu
225                 230                 235                 240
Met Leu Gly Ala Ser Ala Val Trp Ile Gly Thr Arg Phe Ile Leu Ser
                245                 250                 255
Asp Glu Ala Gly Ala Pro Val Ala His Gln Glu Ala Val Arg Thr Ala
            260                 265                 270
Gly Phe Glu Asp Asn Val Arg Thr Ile Ile Phe Thr Val Ser Pro His
        275                 280                 285
Ala Glu Cys Met Gly Met Ala Ser
    290                 295

<210> 26024
<211> 310
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(7),(23),(27),(39),(40),(49),(50),(66),(73),(86),(94),(102),(113),(124),(125),(
127),(132),(135),(141),(143),(155),(156),(158),(160),(175),(187),(195),(199),(2
03),(207),(208),(209),(210),(211),(212),(213),(214),(215),(216)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26024
Gln Pro Lys Lys Asn Thr Xaa Asn His Asn Pro Pro Thr Lys Lys Lys
1               5                   10                  15
Asn Pro Thr Asn Thr Gln Xaa Lys Thr Asn Xaa Thr Pro Pro Asn Pro
            20                  25                  30
His Thr Pro Lys Lys Lys Xaa Xaa Asn His Gln Gln Gln Pro Thr Lys
        35                  40                  45
Xaa Xaa Asn Lys Thr Pro Pro Lys Gln Pro Lys Lys Thr Pro Pro Lys
    50                  55                  60
Lys Xaa Asn His His Gln Lys Pro Xaa Pro Lys Lys Asn Asn Pro Gln
65                  70                  75                  80
Lys Lys Lys Lys Pro Xaa Thr Lys Thr Gln Pro Pro Pro Xaa Lys Thr
                85                  90                  95
Pro Pro Lys Lys His Xaa Pro Gln Lys Pro Lys Pro His Pro Lys Pro
            100                 105                 110
Xaa His Thr Lys Gln Asn Lys Pro Thr Lys Lys Xaa Xaa Lys Xaa Gln
        115                 120                 125
Gln Pro Pro Xaa Gln Gln Xaa Lys Gln Asn Lys Thr Xaa Lys Xaa Asn
    130                 135                 140
Gln Lys Lys Asn Pro Thr Thr Thr Gln Pro Xaa Xaa Pro Xaa Lys Xaa
145                 150                 155                 160
Thr Lys Pro Lys Thr Pro Pro Pro Gln Lys Thr His Pro Gln Xaa Thr
                165                 170                 175
Thr Thr Lys His Pro Thr Pro Asn His His Xaa Gln His Pro His Thr
            180                 185                 190
Asn Asn Xaa His Pro Gln Xaa Pro Lys Thr Xaa His Asn His Xaa Xaa
        195                 200                 205
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Thr Val His Pro Ser Pro Ser
    210                 215                 220
```

```
Pro Ile Trp Pro Ala Arg Leu Leu Leu Ser Pro Arg Arg Leu Pro Leu
225                 230                 235                 240
Gln Pro Phe Pro Pro Ile Ala Lys Leu Leu Ala Val Gly Trp Pro Pro
                245                 250                 255
Leu Leu Ala Pro Asp Ile Leu Pro Ala Glu Phe Gly Ala Leu Glu Gly
            260                 265                 270
Val Arg Phe Gly Asp Gly Val Asp Ala Cys Gly Gly Ala Gly Cys Tyr
        275                 280                 285
Gly Ala Gly Val Gly Ile Ala Ala Gly Ala Gly Ala Asp Asp Gln Glu
    290                 295                 300
Thr Glu Ala Thr Pro Phe
305                 310
```

<210> 26025
<211> 291
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(6),(23),(27),(38),(40),(48),(49),(66),(73),(85),(93),(102),(113),(124),(127),(132),(134),(140),(143),(154),(155),(158),(159),(175),(186),(195),(199),(203),(206),(208),(209),(210),(212),(213),(214),(215),(216)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26025

```
Asn Gln Lys Lys Thr Xaa Lys Thr Thr Thr His Gln Pro Lys Lys Lys
1               5                   10                  15
Thr Pro Pro Thr Pro Lys Xaa Lys Pro Thr Xaa Pro His Gln Thr Pro
            20                  25                  30
Thr His Gln Lys Lys Xaa Pro Xaa Thr Thr Asn Asn Asn Pro Gln Xaa
        35                  40                  45
Xaa Lys Thr Lys Pro Pro Gln Asn Asn Pro Lys Lys His Pro Pro Lys
    50                  55                  60
Lys Xaa Thr Thr Thr Lys Asn Gln Xaa Gln Lys Lys Thr Thr Pro Lys
65                  70                  75                  80
Lys Lys Lys Asn Xaa Gln Pro Lys Pro Asn Pro His Xaa Thr Lys His
                85                  90                  95
His Gln Lys Asn Thr Xaa Pro Lys Asn Pro Asn Pro Thr Gln Asn Gln
            100                 105                 110
Xaa Thr Pro Asn Lys Thr Asn Pro Gln Lys Lys Xaa Thr Lys Xaa Asn
        115                 120                 125
Asn Pro Pro Xaa Asn Xaa Pro Asn Lys Thr Lys Xaa Gln Asn Xaa Thr
    130                 135                 140
Lys Lys Lys Thr Pro Pro Pro Pro Asn Xaa Xaa Thr Gln Xaa Xaa Gln
145                 150                 155                 160
Pro Asn Pro Lys Pro Pro Pro Pro Lys Lys Pro Thr Pro Lys Xaa Gln
                165                 170                 175
Gln Pro Asn Thr Gln Pro Pro Thr Thr Xaa Pro Asn Thr Pro Thr Gln
            180                 185                 190
Thr Thr Xaa Thr Pro Asn Xaa Pro Lys Pro Xaa Thr Ile Xaa Thr Xaa
        195                 200                 205
Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Thr Pro Ser Thr Pro Pro Pro Pro
    210                 215                 220
Pro Ser Gly Pro Arg Asp Cys Cys Phe Arg Arg Ala Val Ser His Ser
```

```
225                 230                 235                 240
Asn His Ser Leu Gln Ser Leu Asn Ser Trp Pro Ser Ala Gly Arg Pro
                245                 250                 255
Phe Ser Pro Gln Ile Tyr Phe Arg Pro Asn Ser Ala Arg Leu Lys Ala
            260                 265                 270
Cys Gly Ser Ala Thr Ala Trp Met His Ala Gly Val Leu Val Val Thr
        275                 280                 285
Ala Arg Ala
    290
```

<210> 26026
<211> 246
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222>
(6),(22),(23),(26),(38),(39),(48),(49),(66),(72),(85),(93),(101),(102),(113),(124),(127),(132),(134),(140),(142),(154),(155),(157),(159),(174),(186),(194),(195),(199),(202),(206),(207),(208),(209),(210),(212),(213),(214),(215)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26026

```
Thr Lys Lys Lys His Xaa Lys Pro Gln Pro Thr Asn Gln Lys Lys Lys
1               5                   10                  15
Pro His Gln His Pro Xaa Xaa Asn Gln Xaa Asn Pro Thr Lys Pro Pro
            20                  25                  30
His Thr Lys Lys Lys Xaa Xaa Lys Pro Pro Thr Thr Thr His Lys Xaa
        35                  40                  45
Xaa Lys Gln Asn Pro Pro Lys Thr Thr Gln Lys Asn Thr Pro Gln Lys
    50                  55                  60
Lys Xaa Pro Pro Pro Lys Thr Xaa Pro Lys Lys Lys Gln Pro Pro Lys
65                  70                  75                  80
Lys Lys Lys Thr Xaa Asn Gln Asn Pro Thr Pro Thr Xaa Gln Asn Thr
                85                  90                  95
Thr Lys Lys Thr Xaa Xaa Pro Lys Thr Gln Thr Pro Pro Lys Thr Lys
            100                 105                 110
Xaa His Gln Thr Lys Gln Thr His Lys Lys Asn Xaa Gln Lys Xaa Thr
        115                 120                 125
Thr Pro Gln Xaa Thr Xaa Gln Thr Lys Gln Asn Xaa Lys Xaa Lys Pro
    130                 135                 140
Lys Lys Lys Pro His His His Pro Thr Xaa Xaa Pro Xaa Lys Xaa Asn
145                 150                 155                 160
Gln Thr Gln Asn Pro Pro Pro Pro Lys Asn Pro Pro Pro Xaa His Asn
                165                 170                 175
Asn Gln Thr Pro Asn Pro Gln Pro Pro Xaa Pro Thr Pro Pro His Lys
            180                 185                 190
Gln Xaa Xaa Pro Pro Thr Xaa Gln Asn Xaa Thr Gln Ser Xaa Xaa Xaa
        195                 200                 205
Xaa Xaa Gln Xaa Xaa Xaa Xaa Lys His Arg Pro Pro Leu Pro Leu Pro
    210                 215                 220
His Leu Ala Arg Ala Thr Ala Ala Phe Ala Ala Pro Ser Pro Thr Pro
225                 230                 235                 240
Thr Ile Pro Ser Asn Arg
                245
```

<210> 26027
<211> 331
<212> PRT
<213> A.fumigatus

<400> 26027
Thr Arg Thr Val Val Lys Leu Leu Val His Val Gln Pro Phe Leu His
1 5 10 15
His Ala Asp Leu Ala Arg Ala Glu Glu Gly Glu Asp Pro Asn Leu Cys
20 25 30
Glu Arg Gln Ser Asn Ala His Gln Leu Thr Asn Glu Val His Tyr Leu
35 40 45
Trp Asn Asp Arg Ile Asp Val Asp Ile Val Ala Asp Asp Arg Arg Val
50 55 60
Val Pro Pro Gln Leu Gln Arg His Pro Leu Gln Gly Leu Arg Thr Thr
65 70 75 80
Arg His Asp Ala Leu Ala Arg Glu Asn Arg Ala Gly Glu Thr Asp Leu
85 90 95
Val Asp Ala Arg Val Leu Arg Asp His Arg Ala Glu Val Ile Ala Ser
100 105 110
Ala Gln Arg Leu Asp His Pro Gly Arg Glu Ala Leu Arg Arg Gln Leu
115 120 125
Gly Glu Leu Gln Ala Ala Ile Arg Arg Lys Arg Gly Gly Leu Asp Asp
130 135 140
His Gly Val Pro Arg Val His Gly Gly Asp Asp Leu Ala Asp Gly Gln
145 150 155 160
Gln Asp Gly Lys Val Pro Arg His Asp Gly Pro Ala Asp Ala Glu Arg
165 170 175
Gly Val Pro Leu Asp Asp Leu Val Phe Val Arg Val Phe Asp Asp Arg
180 185 190
Phe Gly Asp Leu Asp Cys Arg Asp Gly Ser Ser Pro Leu His Gly His
195 200 205
Ser Asp Leu Asp Gly Gly Leu Ala Glu Arg Leu Ala Leu Phe Leu Arg
210 215 220
His Glu Pro Gly Gln Cys Leu Leu Val Cys Phe Asp Leu Val Gly Glu
225 230 235 240
Val Val Glu Ser Gly Ala Thr Leu Gly Glu Arg Gly Leu Gly Pro Phe
245 250 255
Ala Glu Arg Leu Ala Ser Gly Phe Asn Gly Ser Ile Glu Val Leu Leu
260 265 270
Ser Arg Asn Gly Asn Leu Gly Val Gly Leu Pro Val Arg Arg Ile Asp
275 280 285
Ala Val Thr Gly Leu Arg Gly Arg Gly Gln Leu Ile Val Asp His Ile
290 295 300
Val Glu Ser Leu Asp Trp Leu Val Asp Gly Asp Arg Gly Glu Arg Ile
305 310 315 320
Ile Thr Val Met Ser Lys Asp Met Met Met Asn
325 330

<210> 26028
<211> 230
<212> PRT
<213> A.fumigatus

<400> 26028

```
Gln Thr Arg Tyr Ile Thr Phe Gly Met Thr Ala Ser Met Leu Thr Ser
1               5                  10                  15
Ser Gln Thr Ile Ala Gly Ser Phe Pro Pro Ser Ser Ser Val Thr Arg
            20                  25                  30
Phe Arg Val Phe Ala Gln Leu Ala Met Thr Arg Leu Pro Val Arg Ile
        35                  40                  45
Glu Pro Val Lys Leu Ile Leu Ser Met Pro Gly Cys Ser Val Ile Ile
    50                  55                  60
Gly Pro Arg Ser Ser Pro Pro Leu Ser Ala Trp Thr Thr Pro Gly Gly
65                  70                  75                  80
Lys His Cys Ala Ala Ser Ser Ala Ser Phe Arg Pro Gln Tyr Gly Val
                85                  90                  95
Asn Gly Glu Gly Leu Thr Ile Thr Val Phe Pro Val Tyr Thr Ala Gly
            100                 105                 110
Thr Ile Leu Pro Thr Ala Ser Arg Thr Gly Lys Phe His Gly Thr Met
        115                 120                 125
Ala Pro Gln Thr Pro Ser Gly Val Tyr Arg Trp Met Ile Trp Cys Ser
    130                 135                 140
Ser Val Ser Ser Met Thr Val Ser Gly Ile Ser Ile Val Gly Met Val
145                 150                 155                 160
Arg Ala His Cys Thr Ala Ile Pro Thr Ser Thr Val Asp Trp Leu Ser
                165                 170                 175
Gly Leu Pro Cys Ser Cys Val Met Ser Arg Ala Ser Ala Ser Leu Phe
            180                 185                 190
Ala Ser Ile Leu Ser Ala Lys Trp Leu Arg Ala Val Arg Arg Ser Ala
        195                 200                 205
Asn Glu Val Leu Asp His Leu Arg Asn Ala Trp Arg Ala Asp Ser Thr
    210                 215                 220
Ala Arg Ser Arg Ser Ser
225                 230
```

<210> 26029
<211> 269
<212> PRT
<213> A.fumigatus

```
<400> 26029
Pro Val Gln Thr Phe His Asn Val Ile Asn Asn Glu Leu Thr Thr Thr
1               5                  10                  15
Ser Gln Thr Arg His Gly Ile Asn Pro Ala Asn Arg Gln Pro Asn Pro
            20                  25                  30
Glu Val Pro Val Ser Thr Gln Glu Asp Leu Asp Arg Ala Val Glu Ser
        35                  40                  45
Ala Arg Gln Ala Phe Arg Lys Trp Ser Lys Thr Ser Phe Ala Glu Arg
    50                  55                  60
Arg Thr Ala Leu Asn His Phe Ala Asp Lys Ile Glu Ala Asn Lys Glu
65                  70                  75                  80
Ala Leu Ala Arg Leu Met Thr Gln Glu Gln Gly Lys Pro Leu Ser Gln
                85                  90                  95
Ser Thr Val Glu Val Gly Met Ala Val Gln Trp Ala Arg Thr Ile Pro
            100                 105                 110
Thr Ile Glu Ile Pro Glu Thr Val Ile Glu Asp Thr Asp Glu His Gln
        115                 120                 125
Ile Ile Gln Arg Tyr Thr Pro Leu Gly Val Cys Gly Ala Ile Val Pro
    130                 135                 140
Trp Asn Phe Pro Val Leu Leu Ala Val Gly Lys Ile Val Pro Ala Val
```

```
145                 150                 155                 160
Tyr Thr Gly Asn Thr Val Ile Val Lys Pro Ser Pro Phe Thr Pro Tyr
                165                 170                 175
Cys Gly Leu Lys Leu Ala Glu Leu Ala Ala Gln Cys Phe Pro Pro Gly
            180                 185                 190
Val Val Gln Ala Leu Ser Gly Gly Asp Asp Leu Gly Pro Met Ile Thr
        195                 200                 205
Glu His Pro Gly Ile Asp Lys Ile Ser Phe Thr Gly Ser Ile Leu Thr
    210                 215                 220
Gly Lys Arg Val Met Ala Ser Cys Ala Lys Thr Leu Lys Arg Val Thr
225                 230                 235                 240
Leu Glu Leu Gly Gly Asn Asp Pro Ala Ile Val Cys Asp Asp Val Asn
                245                 250                 255
Ile Asp Ala Val Ile Pro Lys Val Met Tyr Leu Val Cys
            260                 265
```

<210> 26030
<211> 228
<212> PRT
<213> A.fumigatus

<400> 26030

```
Leu Lys Cys Glu Tyr Gly Ala Phe Asp Asn Glu His Val Val Leu Pro
1               5                   10                  15
Leu Thr Lys Tyr Asp His Ile Ile Asp Arg Asp Ser Pro Arg Pro Gly
            20                  25                  30
Gln Gln Ala Phe Glu Lys Met Thr Ala Gly Leu Tyr Leu Gly Glu Ile
        35                  40                  45
Phe Arg Leu Ala Leu Ile Asp Leu Leu Asp Ser Arg Pro Gly Leu Ile
    50                  55                  60
Phe Gln Asn Gln Asp Thr Ser Lys Leu Arg Lys Pro Tyr Leu Leu Asp
65                  70                  75                  80
Ala Ser Phe Leu Ala Ala Ile Glu Glu Asp Pro Tyr Glu Asn Leu Gln
                85                  90                  95
Glu Thr Gln Glu Leu Phe Glu Arg Glu Leu Asn Ile Lys Pro Thr Leu
            100                 105                 110
Ala Glu Leu Glu Met Ile Arg Arg Leu Ala Glu Leu Ile Gly Thr Arg
        115                 120                 125
Ala Ala Arg Leu Ser Ala Cys Gly Val Ala Ala Ile Cys Lys Lys Lys
    130                 135                 140
Asn Ile Glu Ser Cys His Val Gly Ala Asp Gly Ser Val Phe Thr Lys
145                 150                 155                 160
Tyr Pro His Phe Lys Ala Arg Gly Ala Gln Ala Leu Arg Glu Ile Leu
                165                 170                 175
Asp Trp Ala Pro Asn Glu Lys Asp Lys Val Thr Ile Met Ala Ala Glu
            180                 185                 190
Asp Gly Ser Gly Val Gly Ala Ala Leu Ile Ala Ala Leu Thr Leu Lys
        195                 200                 205
Arg Val Lys Ala Gly Asn Leu Ala Gly Ile Arg Asn Lys Asp Glu Met
    210                 215                 220
Gln Lys Leu Leu
225
```

<210> 26031
<211> 60
<212> PRT

<213> A.fumigatus

<220>
<221> UNSURE
<222> (12)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26031
Arg Ala Val Ile Lys Arg Cys Gly Asp Met Ser Xaa Val Ser Leu Leu
1 5 10 15
Gln Phe Tyr Pro Gln Tyr Leu Phe Tyr Leu Thr Tyr Cys Pro Cys Gly
20 25 30
Ile Ile Gln Thr Ala Glu Leu His Arg Lys Met Trp Gln Thr Leu Ala
35 40 45
Tyr Lys Ile Arg Lys Met Glu Arg Asn Leu Lys Ser
50 55 60

<210> 26032
<211> 71
<212> PRT
<213> A.fumigatus

<400> 26032
Asn Ala Arg Tyr Cys Tyr Glu Tyr Tyr Asn His Cys Tyr Tyr Glu Gly
1 5 10 15
Val Pro Phe Trp Ile Glu Arg Ile Gln Ala Asp Tyr Gln Ser Asn Asp
20 25 30
Leu Tyr Leu Thr Thr Glu Leu Cys Met Tyr Val Ile Leu Asp Pro Thr
35 40 45
Lys Ala Ser Arg Pro Gly Asn Thr Ser Leu Phe Lys Thr Arg Val Pro
50 55 60
Asn Arg Ala Asp Asn Asn Lys
65 70

<210> 26033
<211> 342
<212> PRT
<213> A.fumigatus

<400> 26033
Ala Pro Gly Asp Arg Leu Ala Gly Asp Val Phe Asn Ile Leu Gly Ala
1 5 10 15
Val Leu Gln Gly Val Leu Pro Thr Met Ile Ile Leu Ala Val Tyr Tyr
20 25 30
Thr Arg Ala Asp Ile Val Leu Leu Gly Gln Cys Phe Tyr Tyr Arg Gly
35 40 45
Phe Thr Leu Arg Asp Lys Leu Ser Asn Pro Thr Ser Pro Ala Asp Ile
50 55 60
Asn Ser Glu Glu Glu Pro Ser Gln Thr Arg Lys Ala Thr Glu His Thr
65 70 75 80
Ser Leu Leu Pro Pro Lys Ser Asn Gly His Ser His His Val Leu Ala
85 90 95
Gln Glu Pro His Tyr Gln Ser Gly Gln Ala Gly Pro Ala Ala Ala Ala
100 105 110
Thr Thr Ser Gln Val Arg Pro Leu Pro Ser His Pro Asp His Arg Arg
115 120 125

```
His Ser Ala Thr Ser Phe Arg Glu Ile Ile His Leu Asn Val Asp Gly
    130                 135                 140
Thr His Leu Ser Pro Ala Thr Pro Phe Ile Glu Pro Thr Ser Lys Glu
145                 150                 155                 160
Tyr Leu Ser Ala Arg Arg Ile Ser Thr Leu Gln Thr Val Leu Phe Asn
                165                 170                 175
Leu Thr Thr Ile Ala Leu Val Cys Ala Ala Gly Val Leu Gly Trp Tyr
            180                 185                 190
Val Ser Pro Ser Ser Ser Lys Asn Glu Glu Ser Asp Leu Pro Gly Asp
        195                 200                 205
Asp Arg Asp Ser Ser Ser Leu Thr Phe Asp Thr Val Gly Gln Val Phe
    210                 215                 220
Gly Tyr Leu Cys Ala Ala Leu Tyr Leu Gly Ser Arg Leu Pro Gln Ile
225                 230                 235                 240
Leu Leu Asn Tyr Arg Arg Lys Ser Thr Glu Gly Val Ser Leu Leu Phe
                245                 250                 255
Phe Leu Phe Ala Cys Ile Gly Asn Leu Thr Tyr Val Leu Ser Ile Leu
            260                 265                 270
Ala Tyr Ser Pro Val Cys Lys Arg His Ser His His Pro His Asp Cys
        275                 280                 285
Arg Pro Gly Glu Ala Ala Ala Leu Tyr Gly Arg Tyr Val Leu Val Asn
    290                 295                 300
Leu Ser Trp Leu Ile Gly Ser Phe Gly Thr Leu Leu Leu Asp Met Cys
305                 310                 315                 320
Ile Phe Ile Gln Phe Phe Leu Tyr Lys Glu Asn Gly Asp Gly Ile Asp
                325                 330                 335
Gly Ser Ser Ala Cys Asp
            340
```

<210> 26034
<211> 65
<212> PRT
<213> A.fumigatus

```
<400> 26034
Gln Arg Tyr Lys Ser Glu Met Asp Gly Lys Lys Ala Leu Val Trp Lys
1               5                   10                  15
Tyr Ser Leu Gly Val Leu Leu Val Gly Leu Leu Ile Met Ile Leu Cys
            20                  25                  30
Thr Gln Asn Ala Tyr Ile Gly Glu Lys Glu Glu Lys Ala Ile Val Lys
        35                  40                  45
Phe Val Arg Lys Ile Ser Phe Leu His Phe Thr Ala Met Gln Glu Phe
    50                  55                  60
Pro
65
```

<210> 26035
<211> 195
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(13)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26035
Gln Xaa Ala Ile Gln Phe Pro Val Pro Ser Gly Ala Xaa Tyr Ala Phe
1 5 10 15
Thr Leu Asp Pro Leu Phe Ala Pro Ile Asp Pro Ser Ala Ser Lys Val
20 25 30
Ser Val Met Ser Thr Lys Ile Glu Leu Val Leu Arg Lys Lys Thr Ala
35 40 45
Gly Gln Lys Trp Gly Ala Leu Glu Ala Ser Ser Ser Ser Ala Lys Leu
50 55 60
Ala Asp Arg Gln Ala Ile Ile Gly Ala Thr Pro Ala Ala Glu Ser Gly
65 70 75 80
Pro Ser Tyr Pro Thr Ser Ser Arg Arg Gly Ala Lys Asp Trp Asp Lys
85 90 95
Val Ala Ser Ala Leu Thr Ala Lys Lys Ser Lys Gly Lys Gly Lys Glu
100 105 110
Arg Ser Ala Glu Lys Asp Ala Lys Ala Gly Asp Asp Ser Gly Asp Asp
115 120 125
Ser Asp Gly Ala Asp Ser Ile Asp Ser Asp Tyr Gly Thr Gly Asp Pro
130 135 140
Val Asp Ala Phe Phe Lys Lys Leu Tyr Ala Asn Ala Asp Pro Asp Thr
145 150 155 160
Arg Arg Ala Met Val Lys Ser Tyr Val Glu Ser Gln Gly Thr Ser Leu
165 170 175
Ser Thr Asn Trp Lys Glu Val Ser Gln Gly Lys Val Glu Ala Arg Pro
180 185 190
Pro Ser Asp
195

<210> 26036
<211> 114
<212> PRT
<213> A.fumigatus

<400> 26036
Pro Cys Trp Leu Ser Phe Cys Pro Ile Ala Phe Ser Val Glu Asp Ser
1 5 10 15
Ser Glu Ala Ile Leu Leu Phe Ala Ile Ala Lys Asn His Arg Phe Leu
20 25 30
Thr Asp Val Leu Leu Leu Thr Leu Ile Thr Met Ile Val Thr Gly Val
35 40 45
Tyr Val Tyr Leu Pro Asp His Leu Arg Ser Ile Tyr Gly His Leu Tyr
50 55 60
Tyr Tyr Trp Ala Gly Glu Arg Pro Phe Val Ser Thr Gly Leu Pro Ser
65 70 75 80
Ile Gly Ala Val Phe Arg Asp Asn Ser Thr Lys Thr Leu Glu Met Val
85 90 95
Tyr Asp Thr Val Lys Asp Ala Ala Ala Thr Ala Thr Gly Pro Ile Ala
100 105 110
Glu Leu

<210> 26037
<211> 601
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (10),(502)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26037

```
Pro Pro Pro Glu Asp Ser His Ser Ile Xaa Ser Arg Arg Ser Val Arg
1               5                  10                  15
Ser Ile Pro Ser Ile Ile Val Asn Asp Val Gly Ser Arg Pro Gly Ser
            20                  25                  30
Arg Pro Gly Ser Arg Pro Gly Ser Arg Trp Ser Glu Arg Lys Trp Ser
        35                  40                  45
Ala Leu Arg Gly Lys Arg Ser Gly Glu Phe Asp Arg Arg Pro Glu Ser
    50                  55                  60
Pro Pro Pro Pro Pro Gln Ile Glu Arg Pro Phe Asn Lys Ile Ser Leu
65                  70                  75                  80
Asp Ile Pro Asn Gly Ser Leu Asp Gly Leu Gly Pro Gln Ser Met Arg
                85                  90                  95
Phe Ser Lys Arg Gly Ser Leu Ile Lys Glu Glu Asp Arg Gln Arg Leu
            100                 105                 110
Gln Arg Glu Ile Ser Lys His Glu Leu Pro Gln Gln Asp Gln Pro Gln
        115                 120                 125
Pro Ala Ala Glu Ser Ser Ile Glu Gln Ser Glu Gln Thr Glu Thr Gly
    130                 135                 140
Glu Thr Ser Ala Pro Val Thr Val Ala Glu Glu Asn Ser Ala Glu Pro
145                 150                 155                 160
Glu Leu Tyr Gly Ala Gln Arg Arg Arg Thr Lys Pro Leu Ser Tyr Leu
                165                 170                 175
Arg Ala Arg His Ser Ser Val Pro Ser Arg Ala Ile Ser Ala Asp Glu
            180                 185                 190
Asp Met Leu Ser Arg Arg Val Arg Leu Met Tyr Glu Lys Gly Asp Glu
        195                 200                 205
Asn Val Thr Asp Ser Glu Val Ala Lys Ser Leu Ala Met Glu Asn Gly
    210                 215                 220
Val Leu Trp Glu Glu Val Ala Pro Thr Pro Thr Glu Ala Ser Ala Val
225                 230                 235                 240
Ser Gly Arg Ser Ala Ser Gly Gly Glu Ser Val Gly Pro Glu Ser Ser
                245                 250                 255
Asn Gly Ser Gly Pro Lys Arg Glu Pro His Glu Leu Ala Gly Gly Ile
            260                 265                 270
Glu Tyr Trp Gln Asn Ile Lys Ala Gly Asp Val Asp Arg Tyr Gly Phe
        275                 280                 285
Ile Arg Ser Thr Thr Phe Asn Ser Ala Asp Gly Thr Glu His Ser Pro
    290                 295                 300
Ile Gln Arg Val Ser Thr Ser Leu Leu Leu Ala Ser Glu Thr Pro Arg
305                 310                 315                 320
Arg Lys His Ser Ile Arg Pro Pro Ser Ala Leu Gly Gly Asn Arg Ser
                325                 330                 335
Phe Ser Gly Arg Ser Pro Thr Arg Lys Ile Ser Ala Pro Ser Met Arg
            340                 345                 350
Pro Ser Ser Ser Gln Ser Thr Tyr Ser Ala Thr Leu Arg Arg Ser Thr
        355                 360                 365
Ser Arg Phe Arg Gln Ala Ala Asn His Leu Pro His Asn Arg Asp Arg
    370                 375                 380
Arg Phe Lys Asp Glu Ala Arg Asp Met Leu Thr Leu Pro Ser Asp Ala
385                 390                 395                 400
```

```
Ala Ala Ser Gly Thr Gly Arg Asp Ser Ala Val Ala Arg Ala Met Arg
                405                 410                 415
Lys Lys Glu Trp Gln Arg Glu Asp Lys Trp Thr Lys Met Ala Lys Pro
            420                 425                 430
Thr Arg Arg Thr Ala Leu Gly Gly Gly Met Thr Phe Glu Phe Asp Thr
        435                 440                 445
Gln Ser Pro Lys Leu Ile Glu Arg Thr Trp Lys Gly Ile Pro Asp Arg
    450                 455                 460
Trp Arg Ala Thr Ala Trp Tyr Ala Phe Leu Glu Ala Ser Ala Lys Arg
465                 470                 475                 480
Arg Ser Asp Ser Pro Thr Glu Gln Glu Leu Val Glu Ala Tyr Asn Glu
                485                 490                 495
Phe Gln Leu Ile Ser Xaa Pro Asp Asp Val Gln Ile Asp Ile Asp Val
            500                 505                 510
Pro Arg Thr Ile Thr Ser His Ile Met Phe Arg Arg Arg Tyr Arg Gly
        515                 520                 525
Gly Gln Arg Leu Leu Phe Arg Val Leu His Ala Met Ser Leu Tyr Phe
    530                 535                 540
Pro Asp Thr Gly Tyr Val Gln Gly Met Ala Ala Leu Ala Ala Asn Leu
545                 550                 555                 560
Leu Ala Tyr Tyr Asp Glu Glu His Ala Phe Ile Met Leu Val Arg Leu
                565                 570                 575
Trp Glu Leu Pro Arg Met Glu Arg Val Ser Gln Ser Gly Phe Ser Gly
            580                 585                 590
Ser Glu Trp Asn Pro Pro Asn Glu Leu
        595                 600
```

<210> 26038
<211> 78
<212> PRT
<213> A.fumigatus

<400> 26038

```
Leu Ala Ala Glu His Ile Ser Glu Pro Thr Met Asp Phe Ile Leu Ile
1               5                   10                  15
Leu Ile Cys Ile Leu Leu Phe Ser Ser Ile Ile Val Leu Ser Tyr Glu
            20                  25                  30
Leu Ile Phe Glu Ile Glu Thr Arg Asp Thr Ser Ser Glu Ser Leu Ile
        35                  40                  45
Val Ile Leu Phe His Leu Ser Tyr Ser Arg Tyr Lys Asn Leu Ile Leu
    50                  55                  60
Ser Val Asn Ala Lys Trp Phe Glu Ser His Tyr Ala Ala Phe
65                  70                  75
```

<210> 26039
<211> 112
<212> PRT
<213> A.fumigatus

<400> 26039

```
Phe Leu Asp Thr Lys Gln Pro Gly Phe Phe Ser Leu Gln Asp Asn His
1               5                   10                  15
Trp Arg Tyr Arg Ser Pro Phe Arg Thr Asp Thr Phe Asn Asn Cys Asn
            20                  25                  30
Leu Phe Ala Val Pro Leu Asp Asn Cys Thr Arg Ser Leu Thr Met Phe
        35                  40                  45
```

```
Tyr Cys Ser Asn Asn Leu Arg Tyr Tyr Thr Glu Ser His Cys Lys Ala
    50                  55                  60
Ser Phe Val Lys Val Pro Asp Ile Ile Phe Met Tyr Ala Val Phe Leu
65                  70                  75                  80
Asn Ser Phe Ala Tyr Ser Leu Lys Pro Leu Ser Asp Asn Leu Arg Ile
                85                  90                  95
Leu Leu Phe Cys Pro Leu Val Cys Asn Pro Leu Ile Ile Ser Cys Thr
            100                 105                 110
```

<210> 26040
<211> 174
<212> PRT
<213> A.fumigatus

<400> 26040

```
Ala Arg Ala Val Ile Val Ala Leu Ser Ile Pro Val Ser Val Ser Val
1               5                   10                  15
Pro Val Pro Val Pro Ile Pro Val Pro Val Ser Val Pro Val Pro Gly
            20                  25                  30
Ser Thr Ala Ile Thr Val Pro Arg Ser Ile Pro Val Thr Val Ser Phe
        35                  40                  45
Ala Leu Phe Ser Ser Pro Ala Leu Ile Ser Phe Leu Ser Phe Leu Phe
    50                  55                  60
Ser Leu Leu Phe Lys Ser Pro Phe Leu Phe Pro Leu Ala Leu Thr Leu
65                  70                  75                  80
Cys Thr Ser Leu Leu Leu Thr Leu Phe Pro Ser Cys Pro Phe Phe Leu
                85                  90                  95
Leu Leu Leu Ala Phe Asp Leu Ala Leu Leu Ala Phe Leu Phe Gly Leu
            100                 105                 110
Ser Thr Ser Phe Leu Leu Phe Glu Phe Ser Leu Phe Ala His Arg Leu
        115                 120                 125
Leu Pro Phe Ser Phe Ala Tyr Leu Thr Leu Ser Ser Tyr Leu Arg Ser
    130                 135                 140
Glu Ile Leu Val Cys Phe Val Ala Gly Leu Leu Leu Phe Arg Ser Glu
145                 150                 155                 160
Leu Val Ser Asp Leu Leu Thr Thr Asp Leu Pro Asp Arg Ile
                165                 170
```

<210> 26041
<211> 160
<212> PRT
<213> A.fumigatus

<400> 26041

```
Ser Arg Ser Arg Ser Leu Ser Leu Ser Leu Ser Leu Ser Leu Ser Leu
1               5                   10                  15
Ser Leu Ser Leu Ser Leu Ser Leu Ser Leu Val Arg Leu Arg Ser Arg
            20                  25                  30
Ser Leu Asp Arg Ser Gln Ser Arg Tyr Leu Ser Arg Ser Ser Arg Leu
        35                  40                  45
Arg Arg Ser Tyr Leu Ser Cys Arg Ser Phe Ser Arg Cys Ser Ser Ser
    50                  55                  60
Arg Arg Ser Ser Ser Arg Trp Arg Ser Arg Ser Ala Arg Arg Cys Ser
65                  70                  75                  80
Ser Arg Ser Phe Arg Leu Ala Leu Ser Ser Ser Ser Phe Trp Arg Ser
                85                  90                  95
```

```
Ile Ser Arg Phe Leu Arg Ser Ser Ser Ala Phe Arg Arg Ala Ser Cys
            100                 105                 110
Ser Ser Ser Ser Leu Cys Leu Arg Thr Val Ser Cys His Ser Arg Ser
        115                 120                 125
Arg Ile Ser Arg Leu Ala Leu Ile Ser Ala Ala Lys Ser Ser Ser Val
    130                 135                 140
Leu Leu Pro Ala Cys Ser Ser Phe Ala Ala Ser Ser Ser Pro Thr Cys
145                 150                 155                 160
```

<210> 26042
<211> 141
<212> PRT
<213> A.fumigatus

<400> 26042

```
Glu Leu Ser Val Arg Tyr Ala Asn Glu Asn Gly Arg Arg Arg Cys Ala
1               5                   10                  15
Asn Arg Glu Asn Ser Lys Ser Lys Lys Leu Val Glu Arg Pro Lys Arg
            20                  25                  30
Asn Ala Arg Ser Ala Arg Ser Asn Ala Lys Arg Arg Arg Lys Lys Gly
        35                  40                  45
Gln Asp Gly Lys Ser Val Arg Ser Ser Asp Val Gln Ser Val Ser Ala
    50                  55                  60
Ser Gly Lys Arg Asn Gly Asp Leu Lys Ser Asn Glu Lys Arg Asn Asp
65                  70                  75                  80
Arg Lys Asp Met Ser Ala Gly Asp Glu Lys Ser Ala Lys Asp Thr Val
                85                  90                  95
Thr Gly Ile Asp Leu Gly Thr Val Ile Ala Val Glu Pro Gly Thr Gly
            100                 105                 110
Thr Glu Thr Gly Thr Gly Ile Gly Thr Gly Thr Gly Thr Glu Thr Glu
        115                 120                 125
Thr Gly Ile Glu Ser Ala Thr Met Thr Ala Leu Ala Gln
    130                 135                 140
```

<210> 26043
<211> 323
<212> PRT
<213> A.fumigatus

<400> 26043

```
Arg Pro Glu Leu Leu Ser Arg Glu Arg Gly Lys Ala Ala Thr Leu Ile
1               5                   10                  15
Glu Gly Ala Val Asp Arg Ser Asp Val Tyr Lys Lys Ala Glu Lys Leu
            20                  25                  30
Ile Asp Ala Leu Ala Ser Asn His Leu Gln Phe Ile Leu Asp Ser Val
        35                  40                  45
Arg Glu Ile Arg Arg Gln Gln Val Gly Asp Glu Leu Ala Ala Lys Glu
    50                  55                  60
Glu Gln Ala Gly Asn Lys Thr Asp Glu Asp Phe Ala Ala Glu Ile Arg
65                  70                  75                  80
Ala Lys Arg Glu Ile Arg Glu Arg Glu Trp Gln Glu Thr Val Arg Lys
                85                  90                  95
Gln Arg Glu Leu Glu Glu Gln Glu Ala Arg Arg Lys Ala Glu Glu Glu
            100                 105                 110
Arg Lys Lys Arg Glu Ile Glu Arg Gln Lys Glu Glu Glu Glu Arg Ala
        115                 120                 125
```

```
Arg Arg Lys Glu Arg Glu Glu Gln Arg Arg Ala Glu Arg Glu Arg Gln
    130                 135                 140
Arg Glu Glu Glu Arg Arg Leu Glu Glu Gln Arg Glu Lys Glu Arg Gln
145                 150                 155                 160
Glu Arg Tyr Glu Arg Arg Arg Arg Glu Glu Arg Glu Arg Tyr Arg Asp
                165                 170                 175
Trp Asp Arg Ser Arg Asp Arg Asp Arg Ser Arg Thr Arg Asp Arg Asp
            180                 185                 190
Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp Arg Asp
        195                 200                 205
Arg Asp Arg Glu Arg Asp Tyr Asp Arg Pro Arg Ser Ile Gly Tyr Arg
    210                 215                 220
Ser Pro Arg Tyr Arg Asp Ser Arg Arg Glu Lys Ser Val Thr Pro Lys
225                 230                 235                 240
Glu Pro Thr Gln Ala Pro Pro Pro Pro Pro Pro Pro Pro Val Ala Val
                245                 250                 255
Asp Asp Lys Ser Leu Glu Glu Ala Ala Leu Gln Leu Leu Leu Lys Glu
            260                 265                 270
Gly Glu Glu Leu Ala Ala Lys Ala Arg Gln Lys Pro Glu Phe Asp Phe
        275                 280                 285
Glu Glu Ala Glu Ala Ile Glu Asn Gly Leu Lys Pro Pro Pro Thr Lys
    290                 295                 300
Ala Lys Gly Ala Thr Glu Ser Ser Ile Pro Leu His His Gly Met Thr
305                 310                 315                 320
Glu Arg Val
```

<210> 26044
<211> 547
<212> PRT
<213> A.fumigatus

<400> 26044

```
Ala Gln Met Arg Ile Phe Tyr Gly Val Trp Gln Ile Tyr Met Pro Gly
1               5                   10                  15
Ser Cys Gly Arg Phe Leu Arg Ile Arg Lys Val Lys Cys Asp Glu Ala
            20                  25                  30
Tyr Pro Ala Cys Arg Arg Cys Leu Ser Thr Gly Arg Thr Cys Asp Gly
        35                  40                  45
Tyr Gly Ile Trp Gly Gly Gly Ser Ser Asn Arg Pro Thr Lys Pro Ser
    50                  55                  60
Ala Val Ala Val Asn Ser Ala Leu Val Val Arg Pro Met Ile Asp Ser
65                  70                  75                  80
Arg Leu Pro Thr Arg Ile Thr Asn Glu Glu Gly Arg Tyr Leu Gln Trp
                85                  90                  95
Phe Lys Glu Arg Thr Val Ser Lys Met Ser Gly Ser Phe Phe Ser Glu
            100                 105                 110
Phe Trp Ser Gly Leu Val Ile Gln Ala Gly Met Ser Glu Pro Ser Val
        115                 120                 125
Leu His Ala Val Leu Ala Leu Ser Ser Val His Arg Gln Gly Val Leu
    130                 135                 140
Thr Asp Gly Gly Val Lys Ala Gly Asp Met Glu Met Ile Thr Leu Thr
145                 150                 155                 160
Arg Tyr Ser Lys Ala Ile Asn Phe Leu Gln Pro His Phe Lys Ala Lys
                165                 170                 175
Asn Arg Thr Ala Phe Arg Thr Ala Leu Ile Val Cys Ile Leu Phe Ile
```

```
            180                 185                 190
Ala Leu Glu Leu Leu Arg Gly His Phe Ala Ser Ala Arg Ile His Leu
        195                 200                 205
Gln Gln Gly Leu Asn Leu Leu Glu Gly Ser Gly Leu Leu Arg Arg Gln
    210                 215                 220
Gly Gly Val Leu Val Gly Gln Ser Gln Val Tyr Val Asp Asp Trp Ile
225                 230                 235                 240
Val His Ala Leu Ser Arg Leu His Ile Gln Leu Glu Leu Leu Lys Gln
                245                 250                 255
Val His Arg Gly Ser Ser Leu Arg Leu Glu Ile Pro Phe Leu Glu Cys
            260                 265                 270
Lys Ser Leu Thr Phe Pro Ser Val Lys Glu Ala Trp Ser Trp Leu His
        275                 280                 285
His Leu Met Gly Lys Ala Phe Asn Leu Asn Arg Glu Val Arg Glu Gln
    290                 295                 300
Phe Cys Thr Glu Ser Asn Leu Pro Ala Glu Leu Leu Arg Arg Gln Arg
305                 310                 315                 320
Ser Val His Glu Asn Leu Thr Cys Trp Leu Asn Thr Tyr Asn His Thr
                325                 330                 335
Ile Gln Gly Ser Met Arg Lys Asp Gln Ala Gln Ile Tyr Gly Leu Leu
            340                 345                 350
Arg Thr Tyr His Thr Met Ile Thr Ile Met Val Ala Thr Cys Leu His
        355                 360                 365
Pro Gly Asp Glu Met Ile Phe Asp Leu His Thr Asp Gln Phe Leu Glu
    370                 375                 380
Met Ile Thr Thr Leu Ala Gln Leu Trp Lys Phe Leu Ser Thr Phe Ser
385                 390                 395                 400
Ala Phe Gly Ser Arg Pro Ala Gln Phe Phe Met Ser Arg Ser Ile Gly
                405                 410                 415
Asp Leu Gly Trp Ile Ala Pro Leu Tyr Tyr Thr Ala Ile Lys Cys Arg
            420                 425                 430
Val His Arg Ile Arg Leu His Ala Ile Arg Leu Leu Glu Gly Ser Phe
        435                 440                 445
His Arg Glu Gly Phe Trp Asp Ser Gln Ile Leu Ala Phe Val Ala Arg
    450                 455                 460
Lys Val Met Glu Ile Glu Glu Val Asp Phe Tyr Gln Leu Leu Asp Ser
465                 470                 475                 480
Arg Asp Asp Phe Glu Leu His Cys Pro Pro Asp Gln Glu Asp Leu Leu
                485                 490                 495
Phe Pro Pro Leu Pro Gly Ser Cys Arg Leu Ser Asp Val Glu Val Arg
            500                 505                 510
Leu Leu Gly Asp Pro Val Asn Thr Ile Ser Ile Leu Cys Ser Pro Asn
        515                 520                 525
Asp Gln Gly Thr Asp Arg Lys Ile Cys Val Ala Ser Tyr Asp Val Ala
    530                 535                 540
Phe Tyr Arg
545
```

<210> 26045
<211> 106
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (70)

<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26045

```
Asn Thr Tyr Cys Lys Thr Glu Glu His Arg Thr Ser Arg Val Thr Met
1               5                  10                  15
Thr Pro Ser Thr Tyr Asp Met His Met Arg Ser Gln Gln Ile Arg Trp
            20                  25                  30
Ser Leu Arg Ala Ser Ala Lys Asn Tyr Thr Ser Gln Ser Asp Ser Thr
        35                  40                  45
Phe Gly His Val Lys Leu Glu Ala Ser Pro Arg Val Phe Ile Asp Cys
    50                  55                  60
Glu Thr Gly Thr Gly Xaa His Arg Thr Thr Met Ser Lys Leu Thr Pro
65                  70                  75                  80
Ile Val Thr Gln Asp Thr Leu Asn Pro Glu Thr Thr Ile Asn His Ala
                85                  90                  95
Cys Pro Leu Leu Lys Asp Asp Thr Val Pro
            100                 105
```

<210> 26046
<211> 342
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (62)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26046

```
Ile Leu Ile Pro Leu Arg Leu His Val Asp Gln Asp Ala Val Asp Phe
1               5                  10                  15
Ile Cys Arg Phe Phe Glu Phe Arg Asp Asp Asn Ala Pro Thr Pro Ser
            20                  25                  30
Ser Pro Ala Asp Ile Pro Phe Leu Gln Arg Val Glu Val Asn Ala Val
        35                  40                  45
Pro Val Lys Leu Asp Phe Lys Pro Lys Arg Val Asp Tyr Xaa Gly Leu
    50                  55                  60
Arg Ser Gly Arg Thr Thr Glu Phe Met Asn Phe Phe Val Leu Asp Gly
65                  70                  75                  80
Ala Asp Met Val Met Arg His Val Ile Ile Tyr Gly Val Ser Gly Phe
                85                  90                  95
Asp Lys Leu Gly Gln Thr Leu Asn Asp Ile Trp Met Pro Asp Ile Lys
            100                 105                 110
Arg Asn Gln Leu Pro Gly Val Leu Ala Gly Leu Ala Pro Ile Arg Ser
        115                 120                 125
Leu Val Asn Val Gly Gly Gly Val Lys Asp Leu Val Val Val Pro Met
    130                 135                 140
Arg Glu Tyr Arg Lys Asp Gly Arg Ile Val Arg Ser Ile Gln Lys Gly
145                 150                 155                 160
Ala Leu Ala Phe Ala Lys Thr Thr Ser Asn Glu Leu Val Lys Leu Gly
                165                 170                 175
Ala Lys Leu Ala Ile Gly Thr Gln Thr Val Leu Gln Gly Ala Glu Glu
            180                 185                 190
Met Leu Thr Ala Pro Thr Ala Thr Thr Leu Gly Ser Glu Glu Asp Met
        195                 200                 205
Ile Asp Glu Glu Glu Ala Asn Lys Ile Ser Pro Tyr Ala Asp Gln Pro
```

```
    210                 215                 220
Val Gly Val Val Gln Gly Leu Arg Gly Ala Phe Arg Gly Leu Glu Arg
225                 230                 235                 240
Asp Leu Leu Leu Ala Arg Asp Ala Ile Val Ala Val Pro Gly Glu Ile
                245                 250                 255
Val Glu Ser Gly Ser Ala Lys Ala Ala Ala Lys Ala Val Leu Lys Arg
            260                 265                 270
Ala Pro Thr Val Ile Leu Arg Pro Ala Ile Gly Val Ser Lys Ala Val
        275                 280                 285
Gly Gln Thr Leu Leu Gly Ala Gly Asn Thr Leu Asp Pro Ser Asn Arg
    290                 295                 300
Arg Lys Ile Glu Asp Val Ser Val Met Val Lys Tyr Val Ser Arg Val
305                 310                 315                 320
Cys Leu Leu Thr Ser Leu Leu Arg Asn Ile Asn Ala Ile Lys Thr Val
                325                 330                 335
Gly His Ile Gly Gln Leu
            340
```

<210> 26047
<211> 135
<212> PRT
<213> A.fumigatus

```
<400> 26047
Gly Thr Gln Arg Ser Ile Pro Asp Asn Cys Gln Asn Arg Val Arg Ser
1               5                   10                  15
Asn Phe Asn Ser Val Ala Arg Glu Arg Leu Asp Val Gly Thr Val Asn
            20                  25                  30
Leu Leu Gln Pro Asn Glu Met Met Ile Asp Leu Asn Asn Thr Pro Gln
        35                  40                  45
Thr Ser Ala Ser Ile Tyr Val Val Leu Lys Val Tyr Val Thr Gly Gln
    50                  55                  60
Cys Arg Asp His Glu Arg Glu Leu His Ile Tyr Lys Gln Ile Asn Gln
65                  70                  75                  80
Val Glu Thr Asn His Pro Gly Arg Asn Phe Ile Arg Lys Leu Arg Asp
                85                  90                  95
His Phe Tyr Ile Gln Gly Pro His Gly Arg His Val Cys Leu Val His
            100                 105                 110
Glu Pro Leu Gly Thr Ser Ala Asp Val Leu Val Lys Ser Ser Pro Arg
        115                 120                 125
Gly Trp Lys Glu Pro Arg His
    130                 135
```

<210> 26048
<211> 152
<212> PRT
<213> A.fumigatus

```
<400> 26048
Ile Arg Arg Pro His Ile His His Cys Val Ala Thr Leu Cys Leu His
1               5                   10                  15
Ala Leu Leu Ala Ala Gly Ser Phe Ala Leu Ile Phe Met Met Gln Arg
            20                  25                  30
Ala Ala Arg Asn Ala Trp Thr Ile Cys Val Pro Gly Ala His Arg Gly
        35                  40                  45
Phe Thr Ile Phe Leu Pro Ser Ala Ser Cys Arg Arg Arg Val Ser Pro
```

```
    50                  55                  60
Leu Ser Ser Leu Arg Thr Thr Val Val Pro Arg Arg Thr Ala Met Ser
65                  70                  75                  80
Ser Ser Gln Trp Thr Cys Thr Pro Arg Thr Phe Pro Thr Ser Gly Phe
                85                  90                  95
Glu Leu Leu Asp Gln Ser Ile Glu Leu Asp Glu Glu Thr Leu Pro Thr
            100                 105                 110
Tyr Arg Pro Glu Lys Tyr Tyr Pro Val Thr Gln Gly Glu Val Leu Asn
        115                 120                 125
Asp Arg Tyr Gln Ile Ile Ala Lys Ile Gly Tyr Gly Val Thr Ser Thr
    130                 135                 140
Val Trp Leu Ala Lys Asp Leu Met
145                 150
```

<210> 26049
<211> 148
<212> PRT
<213> A.fumigatus

<400> 26049

```
Asp Glu Cys Ile Val Glu Tyr Arg Gln Pro Ile Lys Tyr Val Gln Ala
1               5                   10                  15
Gly Lys His Lys His Arg Arg Leu Thr Arg Pro Ser Gly Phe Ile Cys
            20                  25                  30
Arg Ile Pro Thr Val His Ala Cys Ser Pro Leu Asp Thr Asn Gln Pro
        35                  40                  45
Thr Gly Ala Arg Leu His His Pro His Ser Val Ile Ala Gln Pro Glu
    50                  55                  60
Ala Cys Pro Val Ala Arg Gly Pro Ser Pro Arg Thr Ala Arg Ala Gly
65                  70                  75                  80
Arg Gly Thr Ala Thr Cys Gly Ser Arg Arg Ala Thr Arg Arg Arg Cys
                85                  90                  95
Gly Arg Arg Arg Arg Gly Cys Arg Asp Thr Arg Arg Gly Arg Arg Gly
            100                 105                 110
Thr Arg Arg Ala Gly Arg Ser Gly Ser Arg Ser Gly Arg Arg Gly Ser
        115                 120                 125
Arg Arg Ser Ser Ser Gly Thr His Ser Arg Arg Pro Arg Pro Arg Pro
    130                 135                 140
Gly Pro Arg Thr
145
```

<210> 26050
<211> 248
<212> PRT
<213> A.fumigatus

<400> 26050

```
Arg Arg Ser His Pro Ser Gln Lys Pro Ala Ile Gly His Asn Leu Ala
1               5                   10                  15
Asp Val Pro Gly His His Ala Pro Lys Gly Arg Glu Ala Leu Gly Val
            20                  25                  30
Arg Asp Asp Leu Arg Gln Arg Leu His Arg Asn Val Pro Ala Ser Arg
        35                  40                  45
Gly Gly Arg Ala Pro Arg His Ala Glu Glu Asp Leu Asp Val Leu Val
    50                  55                  60
Ala Arg Asp Gly Leu Gly Pro Gly Val Pro Gly Gly Glu Val Glu Val
```

```
65                  70                  75                  80
Val Leu Gly Arg Gly Ala Gly Val Val Arg Leu Gln Ala Ala Val Val
                85                  90                  95
Val Val Glu Leu Asp Pro Asp Gly Val Glu Gly Asp Gly Ala Val Glu
            100                 105                 110
His Gly Pro Val Gly Gly Val Arg Val Gly Ala Leu Arg Gly Gly Gly
        115                 120                 125
Glu Val Leu Leu Leu Gly Gly Val Gly Thr Glu Gln Gly Ala Glu Leu
    130                 135                 140
Val Gly Glu Gly Arg His Val Gly Asp Gly Gly Leu Lys Val Gln Val
145                 150                 155                 160
Glu Ala Val His Gly Arg Phe Ala Glu Gly Ala Glu Ser Gly Gly Val
                165                 170                 175
Val Ala Gly Arg Ala Glu Gly Leu Pro Asp Ala Val Gly Ser Gly Asp
            180                 185                 190
Gly Gly Gly Leu Thr Gly Glu Ala Ala Phe Gly Val Gly Cys Thr Ala
        195                 200                 205
Asn Gly Glu Glu Asp Gly Leu Ala Glu Gly Leu Thr Asp Gly Asp Val
    210                 215                 220
Phe Ser Val Gly Arg Leu Val Val Cys Thr Leu Leu Glu Gly Val Glu
225                 230                 235                 240
Gly Ser Thr Leu Ser Glu Asp Ser
                245
```

<210> 26051
<211> 232
<212> PRT
<213> A.fumigatus

<400> 26051

```
Arg His Lys Pro Pro Gln Leu Ser Ser Asp Arg Val Leu Pro Ser Thr
1               5                   10                  15
Pro Ser Ser Asn Val Gln Thr Thr Lys Arg Pro Thr Glu Lys Thr Ser
            20                  25                  30
Pro Ser Val Asn Pro Ser Ala Arg Pro Ser Ser Ser Pro Leu Ala Val
        35                  40                  45
Gln Pro Thr Pro Lys Ala Ala Ser Pro Val Ser Pro Pro Pro Ser Pro
    50                  55                  60
Glu Pro Thr Ala Ser Gly Arg Pro Ser Ala Leu Pro Ala Thr Thr Pro
65                  70                  75                  80
Pro Leu Ser Ala Pro Ser Ala Lys Arg Pro Trp Thr Ala Ser Thr Trp
                85                  90                  95
Thr Leu Ser Pro Pro Ser Pro Thr Cys Arg Pro Ser Pro Thr Ser Ser
            100                 105                 110
Ala Pro Cys Ser Val Pro Thr Pro Pro Ser Asn Ser Thr Ser Pro Pro
        115                 120                 125
Pro Arg Asn Ala Pro Thr Arg Thr Pro Pro Thr Gly Pro Cys Ser Thr
    130                 135                 140
Ala Pro Ser Pro Ser Thr Pro Ser Gly Ser Ser Ser Thr Thr Thr Thr
145                 150                 155                 160
Ala Ala Cys Arg Arg Thr Thr Pro Ala Pro Arg Pro Arg Thr Thr Ser
                165                 170                 175
Thr Ser Pro Pro Gly Thr Pro Gly Pro Ser Pro Ser Arg Ala Thr Arg
            180                 185                 190
Thr Ser Arg Ser Ser Ser Ala Cys Arg Gly Ala Arg Pro Pro Arg Glu
        195                 200                 205
```

Ala Gly Thr Phe Arg Trp Arg Arg Trp Arg Arg Ser Ser Arg Thr Pro
210 215 220
Arg Ala Ser Arg Pro Leu Gly Ala
225 230

<210> 26052
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26052
Arg Val Ser Gly Trp Gly Ala Ser Gly Ala Arg Phe Gly Val Arg Val
1 5 10 15
Gly Val Gly Val Asp Asp Cys Glu Ser His Tyr Cys Phe Asp Asp Tyr
20 25 30
Leu Tyr Val His Ser Tyr Tyr His Tyr Val Gln His Asp Glu Cys Pro
35 40 45
Asp Asp Leu Asp Glu Cys His Asp Asn Leu Asp Asp Val Val His Asn
50 55 60
Asp Asp Glu
65

<210> 26053
<211> 98
<212> PRT
<213> A.fumigatus

<400> 26053
Thr Pro Asn Arg Glu Asp Ile Pro Ile Cys Gln Ser Leu Gly Lys Thr
1 5 10 15
Ile Leu Leu Ser Ile Gly Gly Ala Thr Tyr Thr Glu Gly Gly Phe Thr
20 25 30
Ser Glu Ser Ala Ala Ile Ala Gly Ala Asn Ser Val Trp Gln Thr Phe
35 40 45
Gly Pro Pro Ser Asn Asn Pro Ser Thr Leu Arg Pro Phe Gly Lys Ala
50 55 60
Ala Val Asp Gly Phe Asp Leu Asp Phe Glu Ser Pro Val Ala Asn Met
65 70 75 80
Pro Ala Phe Ala Asn Gln Leu Arg Ser Leu Phe Ser Ser Asp Pro Ser
85 90 95
Lys Gln

<210> 26054
<211> 255
<212> PRT
<213> A.fumigatus

<400> 26054
Tyr Leu Thr Ala Ala Pro Gln Cys Pro Tyr Pro Asp Ala Ala Asp Gly
1 5 10 15
Pro Met Leu Asp Gly Ala Val Ser Phe Asp Ala Ile Trp Val Gln Phe
20 25 30
Tyr Asn Asn Tyr Cys Gly Leu Gln Ala Tyr Asn Pro Gly Ser Thr Ser
35 40 45
Gln Asn Asn Phe Asn Phe Ala Thr Trp Asp Thr Trp Ala Lys Ser Val

```
    50                  55                  60
Ser Arg Asn Lys Asn Val Lys Val Phe Leu Gly Val Pro Gly Ser Ser
65                  70                  75                  80
Thr Ala Ala Gly Ser Gly Tyr Val Ser Val Glu Ala Leu Ala Gln Ile
                85                  90                  95
Ile Ala Tyr Thr Lys Gly Phe Ser Ser Phe Gly Gly Val Met Ala Trp
            100                 105                 110
Asp Val Ser Gln Val Met Ala Asn Ser Gly Phe Leu Ala Gly Val Arg
        115                 120                 125
Ala Ala Leu Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser Thr Thr Val
    130                 135                 140
Ser Pro Thr Thr Ala Ser Thr Thr Thr Ser Thr Ser Thr Pro Thr Thr
145                 150                 155                 160
Thr Thr Ser Ser Thr Thr Ser Ala Pro Thr Thr Ser Thr Ser Val Thr
                165                 170                 175
Thr Thr Ser Thr Thr Ser Ser Thr Thr Thr Thr Ser Ser Thr Thr Ala
            180                 185                 190
Pro Thr Gly Ser Cys Pro Thr Ala Gly Ala Arg Cys Ser Gly Gly Gly
        195                 200                 205
Ala Ala Cys Asn Gly Ala Ser Phe Gly Leu Cys Asp Asn Gly Val Trp
    210                 215                 220
Val Met Gln Pro Cys Pro Gly Gly Leu Val Cys Ile Gln Gly Gly Ala
225                 230                 235                 240
Gly Val Tyr Cys Gly Tyr Pro Ala Asp Lys Pro Ala Gly Ser Cys
                245                 250                 255
```

<210> 26055
<211> 139
<212> PRT
<213> A.fumigatus

<400> 26055

```
Gln Thr Gln Gln Asn Lys Thr Asn Ser Ala Val Gln Leu Ile His Lys
1               5                   10                  15
Pro Thr Gly Ile Val Val Lys Ser Gln Ala Thr Arg Ser Arg Ser Gln
            20                  25                  30
Asn Glu Lys Ile Ala Arg Gln Ile Leu Ala Asp Lys Val Glu Glu Leu
        35                  40                  45
Leu Lys Gly Asp Ala Ser Arg Asn Ala Ile Arg Ala Glu Arg Ala Arg
    50                  55                  60
Lys Lys Lys Ala Ser Lys Met Lys Lys Thr Arg Arg Lys Tyr Arg Glu
65                  70                  75                  80
Leu Gly Lys Gly Ala Gln Asn Glu Lys His Glu Asp Gly Asp Glu Val
                85                  90                  95
Asp Val Glu Asp Asp Thr Gly Asp Gly Ser Glu Val Gln Gly Ala Pro
            100                 105                 110
His Val Ser Arg Cys Asp Ala Glu Asp Ser Thr Thr Gln Lys Thr Cys
        115                 120                 125
Asp Asn His Ala Ala Glu Gln Lys Gln Leu Gly
    130                 135
```

<210> 26056
<211> 105
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3),(55),(56),(89)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26056
Gln Pro Xaa Ser Gln Pro His Leu Pro Ser Gln Glu His Pro Pro Gly
1 5 10 15
His Glu Leu Ser Thr Asp Arg Arg Glu His Pro Ser Glu Gln Glu Gly
20 25 30
Ser Ser Pro Thr Thr Ser Leu Pro Thr Ser Ala Asn Trp Ile Trp Thr
35 40 45
Gly Gly Thr Thr Lys Ala Xaa Xaa Asn Lys Lys Leu Pro Leu His Trp
50 55 60
Ala Pro Gln Thr Gly Leu Lys Ile Thr Ser Ala Ala Gly Arg Lys Phe
65 70 75 80
Ser Lys Thr Pro Leu Gln Pro Gly Xaa Gly Pro Val Lys Ser Thr Ser
85 90 95
Ala Pro Tyr Pro Ser Thr Ser Gly Ala
100 105

<210> 26057
<211> 147
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (81),(133)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26057
Arg Ser His Tyr Leu Ser Thr Cys Leu Lys Gly Arg Phe Trp Ser Leu
1 5 10 15
Pro Ser Arg Arg Thr Thr Gln Gln Ile Gly Val Thr Leu Arg Lys Pro
20 25 30
Ser Gly Gln Pro Thr Gln Trp Pro Ala Phe Thr Gln Leu Arg Ala Ala
35 40 45
Thr Val Asp Ala Thr Gln Asn Gly Leu Asn Phe Ser Gly Ser Ser Thr
50 55 60
Pro Thr Val Arg Val Leu Gly Pro Asn Ser Glu Asp His Asp Asn His
65 70 75 80
Xaa Ala Asn Leu Ile Ser Gln Val Lys Ser Ile Pro Gln Asp Thr Ser
85 90 95
Ser Leu Arg Ile Glu Glu Asn Thr Pro Gln Asn Lys Lys Gly His Pro
100 105 110
Gln Arg Pro Val Tyr Gln His Pro Arg Thr Gly Tyr Gly Arg Gly Val
115 120 125
Pro Gln Arg Pro Xaa Arg Ile Lys Asn Cys Pro Cys Thr Gly Pro Leu
130 135 140
Lys Arg Val
145

<210> 26058
<211> 73
<212> PRT

<213> A.fumigatus

<400> 26058
Trp Ser Val Val Gln Ile Gln Tyr Arg Leu Ile Ser Ser Ser Leu Ser
1 5 10 15
Leu Ile Leu Ser Leu Phe Val Cys Ser Val Cys Cys Leu Cys Val Ser
20 25 30
Cys Leu Arg Gln His Gly Ile Cys Ser Gln Asp Tyr Met Ile Asn Leu
35 40 45
Ile Asn Ser Ile His Ser Leu Ser Leu Gly Tyr Gly Asn Tyr Ile Leu
50 55 60
Gly Ser Met Glu Gly Tyr Ser Leu Leu
65 70

<210> 26059
<211> 82
<212> PRT
<213> A.fumigatus

<400> 26059
Ser Leu Arg Arg Arg Ser Pro Leu His Pro Leu Val Arg Ala Pro Phe
1 5 10 15
Ser Ala Thr Pro Arg Ser Glu Met Ser Ala Thr Thr Ala Glu Lys Ala
20 25 30
Ser Thr Gly Arg Thr Leu Glu Lys Lys Pro Val Lys Phe Ser Asn Leu
35 40 45
Leu Arg Met Ser Leu Pro His His Glu Ser Tyr Ala Thr Pro Ala Ile
50 55 60
Leu Ala Ala Tyr His Pro Ile Leu Ile Gln Leu Glu Ile Gln Ser Val
65 70 75 80
Gln Asp

<210> 26060
<211> 228
<212> PRT
<213> A.fumigatus

<400> 26060
Thr His Arg Ile Ser Arg Ser His Ser Arg Gly Pro Gly Leu Arg Pro
1 5 10 15
Pro Pro Lys Gly Ala Val Leu Leu Phe Val Ala Ser Glu Ala Glu Phe
20 25 30
Arg Ala Lys Val Leu Gly Ala Pro Asp Phe Leu Ala Gly Ile Ala Gly
35 40 45
Gly Met Thr Gly Gly Val Ala Gln Ala Tyr Ala Thr Met Gly Phe Cys
50 55 60
Thr Cys Met Lys Thr Val Glu Ile Thr Lys His Lys Met Ala Ala Gln
65 70 75 80
Gly Val Lys Pro Pro Gly Thr Phe Ala Thr Phe Met Asp Ile Tyr Arg
85 90 95
Lys Glu Gly Ile Arg Gly Ile Asn Arg Gly Val Asn Ala Val Ala Ile
100 105 110
Arg Gln Thr Thr Asn Trp Gly Ser Arg Phe Gly Leu Ser Arg Leu Ala
115 120 125
Glu Thr Ala Ile Arg Lys Val Thr Asn Lys Asp Glu Asn Gln Lys Leu

```
    130                 135                 140
Ser Ala Ile Glu Lys Val Ile Ala Ser Gly Leu Gly Gly Gly Leu Ser
145                 150                 155                 160
Ala Trp Asn Gln Pro Ile Glu Val Ile Arg Val Glu Met Gln Ser Lys
                165                 170                 175
Lys Glu Asp Pro Asn Arg Pro Lys Asn Leu Thr Val Gly Lys Thr Phe
            180                 185                 190
Lys Tyr Ile Tyr Glu Thr Asn Gly Ile Lys Gly Leu Tyr Arg Gly Val
        195                 200                 205
Thr Pro Arg Ile Gly Leu Gly Ile Trp Gln Thr Val Cys Met Val Ala
    210                 215                 220
Leu Gly Asp Met
225
```

<210> 26061
<211> 153
<212> PRT
<213> A.fumigatus

<400> 26061

```
Val Glu Phe Ile Gly Ala Thr Ala Ser Leu Lys Gly Gly Ser Gly Leu
1               5                   10                  15
Ser Gly Phe Ala Met Ser Lys Phe Ala Ile Arg Ala Leu Ser Gln Ser
            20                  25                  30
Leu Ala Arg Glu Phe Gly Pro Gln Gly Val His Val Ser His Ala Ile
        35                  40                  45
Ile Asp Gly Ile Ile Asp Thr Glu Lys Thr Lys Glu Tyr Ser Arg Glu
    50                  55                  60
Val Pro Asp Ser Lys Ile Asp Pro Gln Trp Val Ser Gly Gln Arg Thr
65                  70                  75                  80
Ser His Lys Ser Pro Ile Leu Ile Pro Asp Phe Arg Leu Arg Asn His
                85                  90                  95
Thr Gly Ser Tyr Thr Pro Ser Pro Gly His Arg Ser Arg Met Asn Trp
            100                 105                 110
Thr Phe Gly His Pro Arg Lys Arg Gly Lys Ala Ile Ala Ala Val Phe
        115                 120                 125
Met Val Asp Gly Leu Cys Pro Cys Ser Gly Tyr Arg Thr Gly Pro Gln
    130                 135                 140
Ser Gln Val Pro Ser Pro Tyr Glu Gln
145                 150
```

<210> 26062
<211> 100
<212> PRT
<213> A.fumigatus

<400> 26062

```
Glu Gly Leu Tyr Glu Gly Ser Pro Ser Leu Cys Gln Val Trp Asp Ser
1               5                   10                  15
Phe Lys Lys Asp Pro Ala Ile Lys Met Thr Ser Arg Ile Val Ser Leu
            20                  25                  30
Ser Pro Asp His Ser Glu Ile Asn Met Lys Ala Glu Ser Gln Thr Gln
        35                  40                  45
Ala Gln Lys Pro Glu Asp Met Asp Gln Lys Lys Glu Glu Pro Met Pro
    50                  55                  60
Pro Val Arg Gln Asp Ala Phe Gly Asp Glu Glu Phe Ala Glu Val Lys
```

```
65                  70                  75                  80
Tyr Lys Val Leu Lys Trp Trp Ser Val Ser Arg Pro Phe Ala His Ile
                85                  90                  95
Pro Arg Arg Arg
            100
```

<210> 26063
<211> 157
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (35),(79),(100),(123)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26063

```
Leu Leu Thr Pro Ser Asn Arg Gln Gly Gly Leu Leu Met Val Ala Glu
1               5                  10                  15
Thr Ile Ser Leu Gly Ile Leu Ser Leu Pro Ala Ala Val Gly Thr Val
            20                  25                  30
Gly Leu Xaa Pro Gly Leu Ala Ile Leu Ile Ser Met Gly Ile Leu Ala
        35                  40                  45
Ser Tyr Asn Gly Tyr Val Ile Gly Gln Ile Lys Leu Arg Phe Pro His
    50                  55                  60
Ile Thr Ser Met Ser Asp Ala Gly Glu Val Leu Leu Gly Pro Xaa Gly
65                  70                  75                  80
Arg Glu Leu Leu Asn Ala Thr Gln Ile Leu Leu Leu Ile Phe Ile Met
                85                  90                  95
Ala Ser His Xaa Leu Thr Phe Thr Val Ala Phe Asn Val Met Asn Gly
            100                 105                 110
His Ala Thr Cys Ser Ile Val Phe Gly Val Xaa Gly Thr Val Ile Ser
        115                 120                 125
Cys Leu Leu Ser Leu Pro Arg Lys Leu Glu Lys Val Ser Trp Leu Ser
    130                 135                 140
Leu Val Cys Asn Leu Cys Cys Arg Gly Thr Gly Thr Gly
145                 150                 155
```

<210> 26064
<211> 506
<212> PRT
<213> A.fumigatus

<400> 26064

```
Met Gln Cys Ala Asp Gly Pro Ala Pro Glu Val Lys Arg Lys Gly Lys
1               5                  10                  15
Lys Leu Met Asn His Leu Gln Pro Trp Thr Lys Asn Pro Asp Phe Ile
            20                  25                  30
Gly His Pro Lys Leu Glu Tyr Leu Lys Gln Val Val Leu Asn His Phe
        35                  40                  45
Met Asp Arg Gly Glu Gly Thr Ala Ala Asn Gly Asp Gln Ser Gln Ser
    50                  55                  60
Ala Thr Arg Ile Met Ile Phe Val His Phe Arg Asp Ser Ala Glu Glu
65                  70                  75                  80
Val Val Arg Val Leu Lys Arg His Glu Pro Leu Ile Arg Pro His Val
                85                  90                  95
```

```
Phe Val Gly Gln Ser Ser Ala Lys Gly Ser Glu Gly Met Asp Gln Lys
            100                 105                 110
Thr Gln Leu Ser Ile Val Gln Lys Phe Lys Lys Gly Thr Tyr Asn Thr
        115                 120                 125
Ile Val Ala Thr Ser Ile Gly Glu Glu Gly Leu Asp Ile Gly Glu Val
    130                 135                 140
Asp Leu Ile Val Cys Tyr Asp Ser Ser Ala Ser Pro Ile Arg Met Leu
145                 150                 155                 160
Gln Arg Met Gly Arg Thr Gly Arg Lys Arg Ala Gly Asn Ile Val Leu
                165                 170                 175
Leu Leu Met Gln Gly Lys Glu Glu Glu Ser Tyr Ile Lys Ala Lys Asp
            180                 185                 190
Asn Tyr Glu Lys Met Gln Gln Met Ile Ala Ser Gly Thr Arg Phe Thr
        195                 200                 205
Phe His Asp Asp Lys Ser Pro Arg Ile Leu Pro Pro Gly Val Arg Pro
    210                 215                 220
Val Ala Glu Lys Arg Gln Ile Asp Ile Pro Val Glu Asn Thr Gln Ala
225                 230                 235                 240
Asp Leu Pro Glu Pro Arg Arg Arg Ala Arg Pro Pro Lys Arg Pro Pro
                245                 250                 255
Lys Lys Phe His Met Pro Asp Asp Val Glu Thr Gly Phe Ala Lys Ala
            260                 265                 270
Ser Ser Leu Thr Gly Lys Val Thr Lys Lys Ala Glu Thr Lys Arg Ala
        275                 280                 285
Val Arg Lys Pro Thr Pro Glu Pro Val Glu Val Pro Ala Leu Glu Glu
    290                 295                 300
Val Leu Leu Thr Pro Arg Gln Gln Gln Asp Leu Glu Arg Arg Tyr Cys
305                 310                 315                 320
His Ile Ala Gly Thr Ser Pro Glu Phe Ile Arg Asn Pro Arg Val Asp
                325                 330                 335
Ala Tyr Pro Arg Leu Gln Ser Val Pro Arg Pro Thr Lys Ala Val Lys
            340                 345                 350
His Gly Ser Leu Thr Ser Arg Met Ile Gly Thr Leu Gln Lys Met Gly
        355                 360                 365
Lys Val Ser Val Asp Cys Glu Ser Arg Tyr Arg Lys Val Leu Ala Leu
    370                 375                 380
Asp Ser Ser Lys Glu Ile Val Asp Ser Val Leu Ser Arg Asp Pro Trp
385                 390                 395                 400
Pro Pro Ala Lys Asn Ser Gly Arg Leu Gly Glu Lys Thr His Ala Phe
                405                 410                 415
Lys Arg Pro Ser Ala Thr Pro Arg Pro Asn Asn Val His Val Arg Glu
            420                 425                 430
Asp Glu Asn Glu Asp Asn Cys Thr Pro Glu Leu Val Ser Pro Glu Lys
        435                 440                 445
Leu Met Ser Ser Phe Leu Glu Pro His Thr Glu Arg Pro Leu Tyr Ser
    450                 455                 460
Ser Gln Arg Ser Gln Asp Ala Phe Glu Leu Asp Phe Pro Asp Val Glu
465                 470                 475                 480
Thr Leu Leu Asn Arg Ser Ala Glu Arg His Val Ser Arg Lys Arg Asn
                485                 490                 495
Arg Phe Val Leu Asp Asp Asp Ser Asp Glu
            500                 505
```

<210> 26065
<211> 137
<212> PRT

<213> A.fumigatus

<400> 26065
Ala Ser Gly Met His Arg Arg Arg Gln Gly Ile Tyr Arg Pro Gly Arg
1 5 10 15
Thr Asp Phe Cys Leu Val Ala Val Ser Ala Lys Asp Asn Ser Ser His
20 25 30
Asn Ile Tyr Met Tyr Gly Gly Lys Gly Ala Asn Glu Leu Tyr Asp Glu
35 40 45
Ile Tyr Val Leu Ser Ile Pro Ser Phe Thr Trp Thr Lys Ile Ser Glu
50 55 60
Gly Lys Ser Pro Arg Tyr Gly His Thr Cys His Leu Val Ala Asn Arg
65 70 75 80
Gln Met Leu Thr Val Gly Gly Ala Ser Ser Asp Asp Leu Ser Thr Cys
85 90 95
Asp Trp Glu Tyr Arg Gly Val Ala Ile Tyr Asp Met Ser Thr Ser Thr
100 105 110
Trp Gly Ser Val Tyr Asp Ala Phe Ala Ala Asp Tyr Ala Val Pro Ala
115 120 125
Lys Val Tyr Gln Val Ile Gly Gly Gly
130 135

<210> 26066
<211> 135
<212> PRT
<213> A.fumigatus

<400> 26066
Leu Ala Leu Lys His Arg Ser Glu Lys Ser Gln Arg Gln Arg Ile Ile
1 5 10 15
Val Phe Ser Cys Ser Pro Ile Glu Glu Asp Glu Lys Thr Leu Val Lys
20 25 30
Leu Ala Lys Lys Met Lys Lys Asn Asn Val Ser Ile Asp Val Ile Ala
35 40 45
Phe Gly Asp Leu Glu Ser Asp Gln Thr Lys Lys Leu Glu Ala Phe Val
50 55 60
Glu Asn Val Lys Gly Gly Asp Gly Ser Asn Leu Ala Ile Ile Pro Pro
65 70 75 80
Gly Pro Asn Leu Leu Ser Glu Glu Leu Gln Ala Thr Pro Ile Leu Gly
85 90 95
Gly Glu Ala Gly Val Gly Gly Ala Gly Ala Glu Gly Gly Asp Gly Gly
100 105 110
Phe Asn Phe Glu Asp Ala Ala Glu Asn Asp Pro Glu Leu Val Leu Gln
115 120 125
Pro Arg Gly Leu Glu Gly His
130 135

<210> 26067
<211> 115
<212> PRT
<213> A.fumigatus

<400> 26067
Gln Lys Arg Arg Leu Tyr Val Arg Ile Pro Trp Phe Phe Gln Ala Leu
1 5 10 15
Ile Ser Ser Asp Ala Gln Gly Leu Thr Thr Cys Ser Ser Thr Arg Trp

```
            20                  25                  30
Gln Ala Gln Val Asp Ala Val Ser Val Ile His Ser Ala Lys Met Arg
        35                  40                  45
Ala His Pro Gln Ser Ala Val Gly Leu Met Ser Met Gly Gly Lys Gly
    50                  55                  60
Pro Glu Val Leu Ser Thr Phe Thr Ser Asp Phe Gly Ser Ile Leu Ala
65                  70                  75                  80
Gly Leu His Arg Thr Lys Ile His Gly Thr Ala His Leu Ser Ser Ser
                85                  90                  95
Ile Gln Val Ala Gly Val Cys Asp Leu Ser Ser Val Ser Ser Phe Val
            100                 105                 110
Asp Gly Tyr
        115
```

<210> 26068
<211> 422
<212> PRT
<213> A.fumigatus

<400> 26068

```
Ala Arg Gly Thr Ser Ser Pro Cys Val Lys Thr Glu Thr Ser Met Ser
1               5                   10                  15
Ser Ile Asn Tyr Ala Pro Ser Gly Glu Asp Ser Leu Cys Ser Ile Arg
            20                  25                  30
Pro Val Leu Arg Val Ser Ser Arg Arg Arg Lys Ser Ser Phe Gly Asn
        35                  40                  45
Leu Thr Arg Arg Trp Leu Ser Ile Asn Ser Ala Val Gln Thr Ser Ile
    50                  55                  60
Ala Gln Pro Ala Gly Ser Gln Pro Gly Arg Lys Cys Val Glu His Ala
65                  70                  75                  80
Arg Ser Val Gly Pro Thr Gln Thr Gln Arg Val Glu Ser Thr Ser Asp
                85                  90                  95
Lys Gly Gly Asn His Tyr Thr Val Pro Ser Glu Thr Gly His Cys Ala
            100                 105                 110
Asp Tyr Glu Ser Ser Thr Ser Leu His Arg Ser Glu Thr Arg Ser Glu
        115                 120                 125
Asp Ser Gln Asn Ala Thr Arg Glu Asn Arg Arg Pro Phe Asn Leu Phe
    130                 135                 140
Ala Asn Thr Gln Thr Ser Thr Thr Asn Ser Pro Ala Lys Asp Lys Ala
145                 150                 155                 160
Ile Gly Val Met Glu Ser Leu Ser Ile Arg Asp Arg Lys Lys Leu Arg
                165                 170                 175
Tyr Arg Leu Tyr Leu Ser Arg Met Gly Arg Asp His Gly Ser Arg Asp
            180                 185                 190
Asn Gly Gly Arg Trp Thr Lys Val Gly Asp Phe Leu Glu Ala Met Gln
        195                 200                 205
Gln Glu Ser Arg Leu Trp Pro Lys Lys Gly Pro Val Gln Lys Glu Leu
    210                 215                 220
Leu Leu Pro Glu Glu Thr Val Ala Leu Met Ala Gly Ile Thr Asp Met
225                 230                 235                 240
Ala Met Lys Glu Asn Val Trp Tyr Val Pro Val Arg Asn Gly Cys Arg
                245                 250                 255
Val His Val Leu His Pro Leu Glu Ser Glu Gly Gln His Arg Lys Val
            260                 265                 270
Ile Leu Ser Gly Ser Lys Arg Ser Val Glu Leu Val Gly Asp His Ile
        275                 280                 285
```

```
Met Arg Thr Arg Met Leu Gln Glu Gln Gly Asp Pro Leu Val Asp Ile
    290                 295                 300
Arg Lys Pro Pro Val Pro Val Tyr Pro Ser Ile Glu Ala Met Arg Arg
305                 310                 315                 320
Lys Asn Leu Pro Val Pro Leu Val Arg Gly Val Trp Asp Phe Tyr Gln
                325                 330                 335
Ala Phe Lys Gln Pro Ala Pro Leu His Thr Leu Leu Asn Ser Ser Ala
            340                 345                 350
Asn Ile Ser Ser Val Arg Glu Phe Ala Glu His Val Glu Glu Leu Thr
        355                 360                 365
Arg Ser Arg Pro Ser Ser Lys Val Ile Arg Gly Lys Pro Gly Thr His
    370                 375                 380
His Arg Glu Arg Val Ala Ala Ala Leu Val Ala Leu Phe Gln Asn Asp
385                 390                 395                 400
Ala Asn Arg Glu Tyr Phe Ser Thr Ala Ala Leu Asn Arg Ala Leu Ser
                405                 410                 415
Phe Leu Phe Asp Asn Glu
            420
```

<210> 26069
<211> 227
<212> PRT
<213> A.fumigatus

```
<400> 26069
Ala Val Phe Leu Ile Asp Val His Trp Gln Pro Arg Gly Glu Asp Lys
1               5                   10                  15
Leu Ala Lys Asn Ile Tyr Ser Met Asp Ala Tyr Ile Phe Met Thr Leu
            20                  25                  30
Arg Leu Pro His Leu Phe Gln Leu Val Pro Phe Ala Thr Gln His Val
        35                  40                  45
Ala Pro Leu Val Asn Leu His His Gly Leu Ser Leu Arg Leu Ala Asn
    50                  55                  60
Phe Leu Glu Gly Thr Gly Ser His Gln Ala Thr Leu Asp Thr Asp Ala
65                  70                  75                  80
Leu Leu Ala Pro Leu Leu His Leu Pro Ala Asp Ala Leu Leu Asp Arg
                85                  90                  95
Gln His Lys Leu His Ile Pro Leu Ser Asp Gln Arg Asp Gly Leu Ala
            100                 105                 110
Ala Ala Ala Arg Thr Arg Arg Thr Thr Asp Thr Val His Val Val Val
        115                 120                 125
Arg Val Ala Gly His Ile Val Val Asp Asp Gln Ala Asp Gly Arg Asp
    130                 135                 140
Ile Glu Thr Thr Arg Gly Asp Val Arg Gly Asp Glu Asp Ala Gly Arg
145                 150                 155                 160
Gly Gly Ala Glu Ala Gly Glu Val Gly Val Pro Leu Gly Leu Gly Lys
                165                 170                 175
Glu Thr Met Gln Gly Gly Asp Ala Val Gly Glu Ala Ala Glu His Ala
            180                 185                 190
Leu Glu Gln Val Gly Gly Leu Gly Val Ile Ala Glu Asp Asp Gly Arg
        195                 200                 205
Phe Gly Gly Val Ala Leu Gly Gly Glu Glu Asp Val Gln Glu Gly Phe
    210                 215                 220
Ala Met Arg
225
```

<210> 26070
<211> 222
<212> PRT
<213> A.fumigatus

<400> 26070
Lys Trp Ile Asp His Val Arg Leu Thr Pro Pro Leu Arg Gly Arg Leu
1 5 10 15
Phe Leu Pro Lys Asn Phe Glu Glu Phe Gln His Arg Lys Arg Tyr Pro
20 25 30
Thr Ser Thr Met Thr Ser Pro Val Pro Ser Glu Pro Val Ser Glu Asp
35 40 45
Thr His Asp Ser Ser Ser Gly Ser Glu Val Glu Pro Ser Lys Thr Ser
50 55 60
Thr Arg Ala Pro Lys Arg Arg Arg Leu Ser Glu Ser Ser Asp Asp Ser
65 70 75 80
Asp Asp Ser Tyr Val Ala Pro Ala Pro Leu Pro Thr Leu Ser Arg Ile
85 90 95
Lys Lys Lys Gly Ala Pro Asp Ala Lys Pro Ala Ala Pro Ala Gly Gln
100 105 110
Asp Asn Pro Val Leu Ile Arg Asp Ala Leu Glu Ile Gly Leu Arg Glu
115 120 125
Glu Ala Ser Ser Phe Ala Ala Leu Asn Val Ala Pro Trp Leu Val Gly
130 135 140
Ser Leu Thr Thr Met Ala Val Arg Lys Pro Thr Ala Ile Gln Lys Ala
145 150 155 160
Cys Ile Pro Glu Ile Leu Lys Gly Arg Asp Cys Ile Gly Gly Ser Arg
165 170 175
Thr Gly Ser Gly Lys Thr Ile Ala Phe Ser Val Pro Met Leu Gln Lys
180 185 190
Trp Ala Glu Asp Pro Phe Gly Ile Ser Gly Val Val Leu Thr Pro Thr
195 200 205
Arg Tyr Ala Ser Leu Arg Asp Gly Met Glu Ile Asp Arg Tyr
210 215 220

<210> 26071
<211> 188
<212> PRT
<213> A.fumigatus

<400> 26071
Arg Ile Ala Lys Pro Ser Cys Thr Ser Ser Ser Pro Pro Arg Ala Thr
1 5 10 15
Pro Pro Asn Leu Pro Ser Ser Ser Ala Ile Thr Pro Arg Pro Pro Thr
20 25 30
Cys Ser Ser Ala Cys Ser Ala Ala Ser Pro Thr Ala Ser Pro Pro Cys
35 40 45
Ile Val Ser Phe Pro Ser Pro Ser Gly Thr Pro Thr Ser Pro Ala Ser
50 55 60
Ala Pro Pro Arg Pro Ala Ser Ser Ser Pro Arg Thr Ser Pro Arg Val
65 70 75 80
Val Ser Ile Ser Leu Pro Ser Ala Trp Ser Ser Thr Thr Met Cys Pro
85 90 95
Ala Thr Arg Thr Thr Thr Cys Thr Val Ser Val Val Arg Arg Val Arg
100 105 110
Ala Ala Ala Ala Arg Pro Ser Arg Trp Ser Asp Ser Gly Met Cys Ser

```
        115                 120                 125
Leu Cys Trp Arg Ser Arg Ser Ala Ser Ala Gly Arg Trp Arg Ser Gly
    130                 135                 140
Ala Arg Arg Ala Ser Val Ser Arg Val Ala Trp Cys Glu Pro Val Pro
145                 150                 155                 160
Ser Arg Lys Leu Ala Arg Arg Ser Glu Arg Pro Trp Trp Arg Leu Thr
                165                 170                 175
Arg Gly Ala Thr Cys Trp Val Ala Asn Gly Thr Ser
            180                 185
```

<210> 26072
<211> 355
<212> PRT
<213> A.fumigatus

<400> 26072

```
Val Cys Arg Glu Leu Ala Leu Gln Ile Phe Glu Gln Ile Lys Ala Ile
1               5                   10                  15
Ser Ala Pro Gln Ser Met Lys Pro Val Leu Ile Thr Gly Gly Thr Asp
            20                  25                  30
Met Arg Pro Gln Ala Ile Ala Leu Ala Gly Arg Pro His Val Val Ile
        35                  40                  45
Ala Thr Pro Gly Arg Leu Ala Asp His Ile Lys Ser Ser Gly Glu Asp
    50                  55                  60
Thr Val Cys Gly Leu Lys Arg Val Arg Met Val Val Leu Asp Glu Ala
65                  70                  75                  80
Asp Arg Leu Leu Ala Ser Gly Pro Gly Ser Met Leu Pro Asp Val Glu
                85                  90                  95
Thr Cys Leu Ser Ala Met Pro Pro Ser Ser Glu Arg Gln Thr Leu Leu
            100                 105                 110
Phe Thr Ala Thr Val Thr Pro Glu Val Arg Ala Leu Lys Asn Met Pro
        115                 120                 125
Arg Ser Ala Asn Lys Pro Pro Val Phe Val Thr Glu Ile Ser Thr Glu
    130                 135                 140
Asn Gln Gly Thr Ile Pro Pro Thr Leu Lys Gln Thr Tyr Leu Lys Val
145                 150                 155                 160
Pro Leu Thr His Arg Glu Ala Phe Leu His Val Leu Leu Ser Thr Glu
                165                 170                 175
Gly Asn Ala Ser Lys Pro Ala Ile Val Phe Cys Asn His Thr Lys Thr
            180                 185                 190
Ala Asp Leu Leu Glu Arg Met Leu Arg Arg Leu Ser His Arg Val Thr
        195                 200                 205
Ser Leu His Ser Leu Leu Pro Gln Ser Glu Arg Asn Ala Asn Leu Ala
    210                 215                 220
Arg Phe Arg Ala Ser Ala Ala Arg Ile Leu Val Ala Thr Asp Val Ala
225                 230                 235                 240
Ser Arg Gly Leu Asp Ile Pro Thr Val Ser Leu Val Ile Asn Tyr Asp
                245                 250                 255
Val Pro Arg Asn Pro Asp Asp Tyr Val His Arg Val Gly Arg Thr Ala
            260                 265                 270
Arg Ala Gly Arg Arg Gly Glu Ala Val Thr Leu Val Gly Gln Arg Asp
        275                 280                 285
Val Gln Leu Val Leu Ala Ile Glu Glu Arg Val Gly Arg Gln Met Glu
    290                 295                 300
Glu Trp Ser Glu Glu Gly Val Ser Ile Glu Gly Arg Leu Val Arg Thr
305                 310                 315                 320
```

```
Gly Ala Leu Lys Glu Val Gly Glu Ala Lys Arg Glu Ala Met Val Glu
                325                 330                 335
Ile Asp Glu Gly Arg Asp Val Leu Gly Arg Lys Arg Asn Lys Leu Lys
            340                 345                 350
Lys Val Arg
        355
```

<210> 26073
<211> 318
<212> PRT
<213> A.fumigatus

<400> 26073

```
Thr Ser Asp Met Tyr Pro Tyr Asp Phe Asp Ala Glu Gly Ala Asp Asp
1               5                  10                  15
Glu Arg Thr Pro Leu Val Gly Ser Thr Arg Val Ser Arg Ser Arg His
            20                  25                  30
Gly Gly Arg Arg Pro Gly Ser Ala Ser Leu Arg Gln Met Glu Tyr Met
        35                  40                  45
Gln Gln Arg Gln Arg Ser Tyr Phe Ser Arg Tyr Ser Ile Cys Leu Ile
    50                  55                  60
Ile Gly Phe Leu Leu Leu Leu Ala Ile Gly Gly Ala Thr Ser Phe Ile
65                  70                  75                  80
Ile Gly Ile Thr Lys Pro Leu Val Asp Val Gln Val Leu Ala Ile Gln
                85                  90                  95
Asn Val Leu Ala Ser Glu Gln Glu Ile Met Leu Asp Leu Arg Val Gln
            100                 105                 110
Ala Val Asn Pro Asn Leu Phe Ser Val Ala Val Asp Asp Met Asp Val
        115                 120                 125
Asn Phe Phe Ala Lys Ser Arg Phe Val Gly Thr Asp Lys Leu Trp Arg
    130                 135                 140
Asp His Ser Ser Asp Pro Asp Gly Phe Pro Arg Val Glu Gln Ser Arg
145                 150                 155                 160
Lys Arg Ala Glu Leu Thr Arg Leu Ala Pro Cys Gly Arg Asp Thr Glu
                165                 170                 175
Cys Thr Pro Asp Val Leu Ala Gly Glu Ser Leu Lys Ile Thr Gly Gly
            180                 185                 190
Val Asp Lys Gly Thr Asp Pro Ile Pro Thr Asp Pro Ala Gly Asp Pro
        195                 200                 205
Gln Thr Met Leu Leu Gly Arg Val Phe His Phe Asp Ser Pro Leu Ala
    210                 215                 220
Phe Glu Pro Ser Pro Trp Asn His Ile Ser Thr Thr Ser Lys Gly Gln
225                 230                 235                 240
Ile Arg Leu Ala Arg Pro Gly Asn Lys Thr Glu Glu Gly Gly Thr Glu
                245                 250                 255
Arg Trp Glu Arg Val Leu Gln His Pro Phe Glu Leu Ile Val Arg Gly
            260                 265                 270
Val Ile Lys Tyr Gln Leu Pro Leu Ser Ser Arg Tyr Tyr Ser Ser Pro
        275                 280                 285
Val Ser Ser Ser Val Lys Val Val Pro Asn Asp Asp Asn His Asp Leu
    290                 295                 300
Pro Leu Gly Ser Gly Arg Ser Ala Ala Ile Val Gly Gly Ile
305                 310                 315
```

<210> 26074
<211> 83

<212> PRT
<213> A.fumigatus

<400> 26074
Arg Gln Phe Asn Leu Cys Lys Leu Met Ile Ile Asp Ser Ser Leu Leu
1 5 10 15
Glu Arg Trp Pro Trp Pro Ile Leu Thr Leu Leu Pro Arg Thr Thr Ala
20 25 30
Tyr Gln Arg Ala Ser Ser Ser Ala Ala Phe Ala Glu Ala Gln Ser Gln
35 40 45
Ala Lys Arg Phe Glu Ser Glu Ala Tyr Glu Lys Ala Thr Ser Lys Val
50 55 60
Cys Ser Pro Pro Gly Ser Ser Asn Arg Leu Leu Ile Lys Asp Leu Ala
65 70 75 80
Gly Arg Leu

<210> 26075
<211> 289
<212> PRT
<213> A.fumigatus

<400> 26075
Arg Ile Leu Gln Glu Asp Tyr Asp Arg Met Cys Gln Asp Ala Ile Asp
1 5 10 15
Ala Ala Glu Ala Ser Gly Ser Val Ala Pro Met Ile Ser Ser Pro Asp
20 25 30
Gln Leu Gln His Glu Pro Glu Glu Gly Ala Trp Thr Gly Gly Glu Ser
35 40 45
Ile Gly Pro Phe Lys Gly Cys Leu His Val Phe Asp Gly Leu His Ser
50 55 60
Thr Ile Tyr Lys Ser Lys Arg Glu Asp Gly Ala Val Val Ala Val Lys
65 70 75 80
Val Thr Ile Pro His Leu Leu Thr Pro Pro His Asp Ala Glu Arg Glu
85 90 95
Val Arg Leu Leu Arg Glu Ala Ala Ser Pro His Val Ile Ser Leu Leu
100 105 110
Asp Ser Leu Lys Val Asp Gly Gly Arg Leu Ile Leu Val Phe Pro Tyr
115 120 125
Leu Lys Tyr Asp Leu Glu His Leu Leu Arg Arg Asp Met Leu Thr Ala
130 135 140
Thr Leu Ile Lys Ala His Leu His Asp Met Phe Ser Ala Leu Ala His
145 150 155 160
Leu His Glu Leu Gly Ile Ile His Arg Asp Val Lys Pro Ser Asn Ile
165 170 175
Leu Leu Asp Ser Pro Asp Gly Pro Ala Tyr Leu Ala Asp Phe Gly Ile
180 185 190
Ala Trp Lys Glu Gly Asp Lys Gly Ser Glu Pro Ala Asp Lys Lys Ile
195 200 205
Thr Asp Val Gly Thr Thr Ser Tyr Arg Ala Pro Glu Ile Leu Phe Gly
210 215 220
Phe Lys Gly Tyr Gly Thr Ala Leu Asp Leu Trp Ala Ala Gly Cys Val
225 230 235 240
Val Ala Glu Ala Val Ala Val Gly His Lys Gln Leu Phe Asp Ser Gly
245 250 255
Pro Val Gly Ser Asp Leu Thr Leu Val Gln Ser Ile Phe Lys Thr Leu

```
            260                 265                 270
Gly Thr Pro Asp Glu Ser Thr Trp Pro Val Arg His Pro Ser Ile Leu
        275                 280                 285
Ser
```

<210> 26076
<211> 177
<212> PRT
<213> A.fumigatus

<400> 26076

```
Gly Trp Lys Asp Arg Ala Asn Ile Tyr Gly Gln Ile His Ser Ala Asp
1               5                  10                  15
Glu Leu Val Leu Thr Glu Leu Ile Leu Glu Asn Val Leu Ser Glu Tyr
            20                  25                  30
Glu Pro Glu Glu Ile Val Ala Leu Leu Ser Ala Phe Val Phe Gln Glu
        35                  40                  45
Lys Thr Glu Asn Val Pro Thr Leu Thr Pro Arg Leu Glu Lys Gly Lys
    50                  55                  60
Glu Ala Ile Ile Arg Ile Ala Glu Lys Val Asn Asp Leu Gln Ile Gln
65                  70                  75                  80
Tyr Gln Val Ile Gln Ser Ser Glu Asp Ser Asn Asp Phe Ala Ser Gln
                85                  90                  95
Pro Arg Phe Gly Leu Ala Glu Val Val Tyr Glu Trp Ala Lys Gly Met
            100                 105                 110
Ser Phe Asn Arg Ile Thr Asp Leu Thr Asp Val Met Glu Gly Thr Ile
        115                 120                 125
Val Arg Thr Ile Thr Arg Leu Asp Glu Thr Cys Arg Glu Val Arg Asn
    130                 135                 140
Ala Ala Lys Leu Val Gly Asp Pro Thr Leu Tyr Ala Lys Met Gln His
145                 150                 155                 160
Ala Gln Glu Leu Ile Lys Arg Asp Val Ile Phe Ala Ala Ser Leu Tyr
                165                 170                 175
Met
```

<210> 26077
<211> 191
<212> PRT
<213> A.fumigatus

<400> 26077

```
Leu Phe Ser Ala Asp Ala Ala Thr Pro Val Val Lys Thr Gln Ala Asn
1               5                  10                  15
Ser Lys His Thr Glu Ala Ile Lys Phe Ala Asp Lys Glu Leu Ser Lys
            20                  25                  30
Leu Cys Ala Ser Trp Thr Ser Pro Ile Trp Asp Glu Met Asp Trp Ala
        35                  40                  45
Arg Ile Lys Glu Leu Gln Val Arg Asp Ile Leu Glu Lys Arg Gln Ala
    50                  55                  60
Gln Ala Ala Ile Thr Gln Ser Cys Arg Cys Leu Gln Cys Pro Ser Phe
65                  70                  75                  80
Met Lys His Val Ser Cys His Arg Leu Tyr Asn Trp Phe Leu Val Asn
                85                  90                  95
Tyr Ile Val Thr Asp Phe Gly Gln Phe Glu Met Gln His Asp Glu Trp
```

```
            100                 105                 110
Gln Val Lys Glu Asn Ile Ser Gln Leu Lys Gln Leu Met Ser Asp Gln
        115                 120                 125
Asn Leu Gln Leu Leu Pro Asp Tyr Glu Gln Arg Ile Gln Val Leu Arg
    130                 135                 140
Asp Leu Gly Phe Ile Asp Glu Gln Ser Arg Val Gln Leu Lys Gly Lys
145                 150                 155                 160
Val Ala Cys Glu Val Ser His Gln Ile Phe Cys Glu Ala Gly Arg Thr
                165                 170                 175
Glu Leu Ile Ser Met Asp Arg Phe Thr Arg Leu Met Ser Trp Cys
            180                 185                 190
```

<210> 26078
<211> 258
<212> PRT
<213> A.fumigatus

<400> 26078

```
Tyr Leu Pro Met Tyr Phe Gln Thr Val Leu Gln Ala Pro Pro Ile Val
1               5                   10                  15
Ser Gly Val Tyr Val Leu Pro Leu Val Leu Ser Ile Ser Val Val Ser
            20                  25                  30
Ala Gly Thr Gly Ile Ile Ile Lys Lys Thr Gly Arg Tyr Arg Glu Leu
        35                  40                  45
Ile Val Gly Gly Leu Gly Leu Met Thr Leu Gly Phe Gly Leu Leu Ile
    50                  55                  60
Asp Met Lys Tyr Tyr Ala Ser Trp Pro Arg Ile Ile Ile Tyr Gln Ile
65                  70                  75                  80
Ile Ala Gly Val Gly Val Gly Pro Leu Phe Gln Ala Pro Leu Val Ala
                85                  90                  95
Phe Gln Ala Asn Ile His Arg Ser Asp Met Ala Thr Ala Thr Ala Thr
            100                 105                 110
Phe Ala Phe Leu Arg Gln Ala Ser Ser Ala Ile Ser Val Val Leu Gly
        115                 120                 125
Thr Val Val Tyr Gln Asn Asp Leu Ala Arg Gln Gln Pro Ala Ile Glu
    130                 135                 140
Ala Ala Thr Gly Pro Glu Thr Ala Ala Ile Leu Ala Gly Ser Phe Ala
145                 150                 155                 160
Gly Ser Thr Gly Ser Leu Val Lys Ser Leu Pro Glu Ala Ala Arg Ile
                165                 170                 175
Val Val Leu Glu Ser Phe Thr His Ser Leu Ser Arg Leu Trp Ile Phe
            180                 185                 190
Tyr Thr Ala Val Gly Gly Phe Gly Phe Leu Val Ser Leu Phe Ile Arg
        195                 200                 205
Pro Val Glu Leu Ser Lys Ala His Thr Phe Thr Lys Thr Gly Leu Ala
    210                 215                 220
Glu Gln Glu Arg Ala Arg Lys Glu Ile Leu Ala Glu Gln Lys Ala Glu
225                 230                 235                 240
Ala Glu Ala Ala Ala Ala Ala Lys Arg Thr Asp Pro Leu Pro Lys Ala
                245                 250                 255
Glu Val
```

<210> 26079
<211> 78
<212> PRT

<213> A.fumigatus

<400> 26079
Ile Leu Leu Pro Thr Pro Asp Cys Leu Ala Ala Glu Tyr Glu Ser Leu
1 5 10 15
Ser Lys Ser Ile Leu Leu Thr Pro Pro Cys Ser Cys Leu Pro His Ser
20 25 30
Leu Ser Ser Ser Ser Leu Ser Thr Leu Leu Ser Pro Ser Leu Thr Tyr
35 40 45
Phe Leu Thr Ala Ser Leu Tyr Phe Phe Ser Ser Pro Leu Val Lys Tyr
50 55 60
Phe Leu Lys Leu Phe Pro Pro Leu Phe Ser Ser Leu Leu Leu
65 70 75

<210> 26080
<211> 103
<212> PRT
<213> A.fumigatus

<400> 26080
Pro Cys Ser Ala Tyr Pro Ser Trp Asp Leu Ile Gly Leu Asn Ser Arg
1 5 10 15
Thr Leu Thr Asp Leu Cys Arg Ser Met Tyr Ser Ala Asp Gln Phe Met
20 25 30
Asn Pro Gly Pro Ala Pro Arg Pro Pro Thr Asp Arg Pro Lys Leu Ser
35 40 45
Leu Pro Ser Asn Pro Ser Gly Val Ala Thr Ser Phe Ser Gln Met Ser
50 55 60
Leu Asn Ser Pro Ser Thr Pro Gly Ser Ala Asn Leu Ser Leu Phe Pro
65 70 75 80
Asn Thr Ser Ser Pro Ser Leu Ser Gln Thr Lys Thr Asn Gln Thr Gly
85 90 95
Gln Gly Ala Leu Pro Ser Ser
100

<210> 26081
<211> 184
<212> PRT
<213> A.fumigatus

<400> 26081
Thr Pro Gly Arg Gln Leu His Ile Gly Asp His Thr Ser Phe Phe Pro
1 5 10 15
Arg His Asn Cys Ser Thr Leu Arg Leu Pro Ser Ser Ser Ser Trp Ile
20 25 30
Ile Lys Ser Glu Arg Ile Arg Leu Val Ala Ala Met Asn Thr Thr Leu
35 40 45
Pro Ser Trp Lys Asp Arg Thr Gln Asn Gln Phe Gly Lys Leu Gln Ile
50 55 60
Gln Val Pro Trp Arg Thr Ile Gln Leu Leu Val Pro His Arg Met Arg
65 70 75 80
Arg Lys Ile Arg Ser Lys Leu Arg Ser Arg Ile Ser Pro Thr Ser Ser
85 90 95
Ile Ser Ser Leu Gln Thr Ser Phe Ser Pro Val Asp Thr Leu Arg Ser
100 105 110
Leu Gln Ser His Arg Trp Thr Leu Tyr Asp Phe Gln Tyr Leu Leu Leu

```
        115                 120                 125
Leu Ile Val Gly Ile Phe Ser Leu Ser Val Met Glu Ser Pro Gly Pro
    130                 135                 140
Leu Ala Lys Thr Ala Ala Phe Thr Leu Leu Leu Ile Ser Leu Leu Leu
145                 150                 155                 160
Pro Ile Thr Arg Gln Phe Phe Leu Pro Phe Leu Pro Ile Ala Gly Trp
                165                 170                 175
Leu Ile Phe Phe Tyr Ala Cys Gln
            180
```

<210> 26082
<211> 219
<212> PRT
<213> A.fumigatus

<400> 26082

```
Ala Leu Trp Asn His Leu Asp His Trp Gln Arg Pro Pro Arg Leu Arg
1               5                   10                  15
Tyr Phe Ser Ser Leu Ser Phe Ser Arg Leu Arg Ala Ser Ser Ser Cys
            20                  25                  30
His Ser Ser Arg Leu Gln Asp Gly Leu Tyr Phe Ser Thr Leu Ala Ser
        35                  40                  45
Lys Phe Thr Ser Leu Gly Thr Ile Thr Ile Cys Asp Glu Tyr Leu Cys
    50                  55                  60
Leu Pro Glu Arg Phe Ile Pro Ser Asp Trp Arg Pro Ala Ile Trp Val
65                  70                  75                  80
Arg Val Leu Pro Ala Leu Glu Asn Ile Leu Tyr Gly Ala Asn Ile Ser
                85                  90                  95
Asn Ile Leu Ser Ala His Gln Asn Val Val Leu Asp Val Leu Ala Trp
            100                 105                 110
Leu Pro Tyr Gly Ile Cys His Tyr Gly Ala Pro Phe Val Cys Ser Ala
        115                 120                 125
Ile Met Phe Ile Phe Gly Pro Pro Gly Thr Val Pro Leu Phe Ala Arg
    130                 135                 140
Thr Phe Gly Tyr Ile Ser Met Ala Ala Val Thr Ile Gln Leu Phe Phe
145                 150                 155                 160
Pro Cys Ser Pro Pro Trp Tyr Glu Asn Leu Tyr Gly Leu Ala Pro Ala
                165                 170                 175
Asp Tyr Ser Met Pro Gly Asn Pro Ala Gly Leu Ala Arg Ile Asp Glu
            180                 185                 190
Leu Phe Gly Ile Asp Leu Tyr Thr Ser Gly Phe Arg Gln Ser Pro Gly
        195                 200                 205
Ile Arg Ala Gly Met Arg Asn Ala Ser Glu Thr
    210                 215
```

<210> 26083
<211> 270
<212> PRT
<213> A.fumigatus

<400> 26083

```
Ser Glu Glu Lys Phe Phe Ser Arg Asp Val Thr His Val Val Thr Ser
1               5                   10                  15
Arg Pro Ile Pro Pro Glu Ile Asp Thr Val Pro Pro Ala Glu Leu Asn
            20                  25                  30
Ala Thr Ser Ala Asp Gln Thr Pro Val Asp Thr Val Asn Pro Ser Leu
```

```
        35                  40                  45
Leu Glu Lys Thr Ala Asp Thr His Leu His Met Ser Leu Lys Thr Asp
    50                  55                  60
Gln Arg Arg Glu Pro Ser Asn Met Asp Val Leu Tyr Arg Ala Arg Arg
65                  70                  75                  80
Met Lys Met Lys Ile Trp Ala Leu Glu Lys Leu Gln Arg Met Ile Ala
                85                  90                  95
Ala Ile Asn Asp Gly Asp Pro Gly Gly His Ser Ser His Ser Arg Ile
            100                 105                 110
His Asn Ala Val Gly Gly Asn Thr Lys Ala Arg Gly Glu Ser Asp Leu
        115                 120                 125
Ser Gln Val Leu Arg Lys Glu Leu Val Ser Gly Pro Ser Asp Arg Asp
    130                 135                 140
Pro Leu Ser Ser Leu Lys Glu Leu Val Leu Phe Lys Gly Pro Phe Ile
145                 150                 155                 160
Tyr Ile His Asp Met Asp Glu Lys Thr Lys Pro Val Met Val Arg Glu
                165                 170                 175
Tyr Pro Lys Val Ala Arg Arg Gln Asp Gly Ile Trp Pro Gln Phe Arg
            180                 185                 190
Ser Ala Pro Leu Gly Lys Cys Pro Phe Ile Asp Glu Pro Pro Ser Lys
        195                 200                 205
Lys Glu Ile Glu Arg Gln Arg Ala Arg Gln Gln Glu Lys Glu Lys Lys
    210                 215                 220
Leu Ala Pro Lys Ala Pro Ala Val Lys Glu Val Pro Lys Phe Asp Ala
225                 230                 235                 240
Pro Asp Val Gly Pro Val Asn Leu Asp Asn Arg Leu His His Gly Ala
                245                 250                 255
Gly Arg Ile Ser Ala Leu His Phe Gln Gly Leu Gln Arg Gly
            260                 265                 270
```

<210> 26084
<211> 109
<212> PRT
<213> A.fumigatus

<400> 26084

```
Ala Lys Glu Thr Ile Cys Asp Gln Ala Ser Val Glu Ala Lys Leu Cys
1               5                   10                  15
Glu Ala Asp Gln Ile Gly Ser Phe Ile Leu Ala Ala Asn Ala Ser Glu
            20                  25                  30
Ala Ser Lys Phe Pro Ile Ile Ser Gln Ala Val His Leu Lys Asn Pro
        35                  40                  45
Thr Ala Ile Asn Tyr Pro Val Lys Lys Thr Gly Phe Tyr Cys Val Ser
    50                  55                  60
Thr Tyr Gly Tyr Ser Gly Lys Asp Tyr Lys Ala Ala Val Glu Phe Arg
65                  70                  75                  80
Asn Ser Tyr Gly Glu Leu Pro Ala Ala Gln Ile Ala Lys Leu Pro Phe
                85                  90                  95
Tyr Gly Gly Leu Thr Ile Val Tyr Ala Val Ile Gly Val
            100                 105
```

<210> 26085
<211> 175
<212> PRT
<213> A.fumigatus

<400> 26085
Pro Val Ala Asp Phe Gln Asn Arg His Gly Leu Asn Ile Gly Ala Lys
1 5 10 15
Val Leu Met Val Ile Val Ala Val Leu Asn Ala Gly Arg Asn Ser Phe
20 25 30
Ser Phe Phe Leu Leu Leu Ile Val Cys Met Gly Tyr Gly Val Val Lys
35 40 45
Pro Ser Leu Gly Arg Thr Met Val Tyr Val Arg Ile Leu Ala Ile Thr
50 55 60
His Phe Val Phe Gly Val Ile Tyr Ala Val Ala Ser Leu Ser Ile Thr
65 70 75 80
Pro Asp Ser Ala Gly Pro Leu Val Leu Leu Ile Val Leu Pro Leu Ala
85 90 95
Gly Thr Leu Thr Ala Phe Tyr Val Trp Thr Leu Asn Ser Leu Asn Ala
100 105 110
Thr Met Lys Asp Leu Ile Asp Arg Lys Gln Lys Val Lys Ala Met Met
115 120 125
Tyr Lys Lys Leu Trp Trp Cys Ile Leu Gly Ser Ile Ile Val Ile Phe
130 135 140
Gly Phe Phe Phe Ile Asn Ser Phe Ala Phe Ala Arg Arg Ser Glu Ala
145 150 155 160
Arg Phe Gly Pro Glu Gln Ser Thr Pro Ala Val Glu Ile Asn Val
165 170 175

<210> 26086
<211> 417
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (38)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26086
Val Asp Ala Lys Pro Ala Gln Glu Val Ile Thr Pro Ala Ser Met Glu
1 5 10 15
Thr Pro Ser Lys Lys Glu Pro Ala Pro Gly Lys Leu Gly Lys Trp Ser
20 25 30
Arg Phe Ala Gly Leu Xaa Ser Pro Leu Pro Gly Ser Pro Ala Lys Glu
35 40 45
Ser Glu His Gln Phe Gly Thr Lys Ser Pro Ala Pro Gln Pro Ser Thr
50 55 60
Asn Asp Ala Asp Gln Glu Gly Phe Gln Arg Ile Leu Gln Met Leu Gly
65 70 75 80
Gly Ser Lys Ser Arg Asn Ala Thr Pro Gln Ile Asp Ser Ala Gln Ala
85 90 95
Pro Arg Pro Thr Val Ala Gln Val Asp Ser Ala Leu Asn Ala Leu Ser
100 105 110
Ser Pro Ser Lys Asp Ser Val Arg Arg Pro Glu Thr Met Ala Val Pro
115 120 125
Asp Thr His Pro His Ser Thr Val Pro Ser Ile Pro Glu Asn Met His
130 135 140
Ala His Asp Ser Pro Phe Lys Asp Pro Gln Pro Arg Asp Arg Glu His
145 150 155 160
Leu Leu Arg Leu Met Gln Gln Val Arg Val Ser Pro Val Ala Pro Gln

```
                165                 170                 175
Ser His Gly Leu Gln Gly Gln Pro Gln Ser Ala Gly Pro Ala Pro Gly
            180                 185                 190
Val Met Asn Val Pro Glu Val Leu Ser Arg Pro Pro Gly Ile Pro Thr
        195                 200                 205
Ala Gln Lys Gly His Asn Phe Leu Asp Asp Pro Ala Ile Ala Asn Met
    210                 215                 220
Gln Arg Pro Asp Ala Asp Gln Leu Arg Arg Arg Pro Ala Asn Gly Pro
225                 230                 235                 240
Pro Met Gly Tyr Phe Asp Glu Val Pro Phe Pro Gln Gly Gly His Met
                245                 250                 255
Pro Ile Thr Pro Gly Gly Ser Arg Pro Pro Gln Gly Gln Gly His Pro
            260                 265                 270
Gly Met Gly Ile Gln Arg Pro Pro Gly Phe Glu His Leu Pro Pro Pro
        275                 280                 285
Gly Trp Asn Gly Pro Gln Met Pro Pro Gln Gln Gly Gly Gly Pro Ser
    290                 295                 300
Pro Leu Val Pro Pro Pro Gly Ile Pro Thr Pro Thr Arg Gly Val Asn
305                 310                 315                 320
Pro Asn Phe Met Met Pro Pro Met His Gly Asn Val Pro Pro Pro Asn
                325                 330                 335
Glu Arg Gln Pro Phe Pro Arg Gly Ala Gly Pro Leu Pro Pro Gly Met
            340                 345                 350
Met Pro Pro Pro Gly Tyr Met Asn Val Pro Pro Pro Ser Ala Phe Pro
        355                 360                 365
Pro Met Pro His Asn Ser Asp Ala Leu Leu Gly Leu Gly His Gly Gln
    370                 375                 380
Gly Pro Phe Glu Gly Asn Pro Gly Pro Gln Gly Pro Pro Pro Ser Ser
385                 390                 395                 400
Arg His Leu Leu Asp Met Phe Gly Gln Val Gly Gly Pro Gly Gln Phe
                405                 410                 415
Arg
```

<210> 26087
<211> 61
<212> PRT
<213> A.fumigatus

<400> 26087

```
Tyr Thr Ala Pro Ile Glu Tyr Met Pro Ile Asp Asp Val Glu Thr Leu
1               5                  10                  15
Asp Arg Tyr Arg Pro Gly Gly Tyr His Pro Val Thr Val Gly Gly Gln
            20                  25                  30
Leu Gly Gly Arg Tyr Ser Ile Val His Arg Leu Gly Phe Gly Ser Tyr
        35                  40                  45
Ser Thr Ile Trp Leu Ala Arg Asn Gln Asp Ala Gly Arg
    50                  55                  60
```

<210> 26088
<211> 150
<212> PRT
<213> A.fumigatus

<400> 26088

```
Glu Ser Ser Gly His Leu Ser Ser Val Val Val Val Tyr Phe Asp Ile
```

```
1               5                   10                  15
Ser Ile Glu Val Arg Cys Ser Thr Val Pro Gly Leu Gly Ala His Val
            20                  25                  30
Ala Met Arg Phe His Cys Ala Tyr Asn His Val Cys Cys Ser Pro Leu
        35                  40                  45
Phe Lys Arg Leu Val Asn Leu Lys Ser Cys Thr Thr Ile Ser Ala Tyr
    50                  55                  60
Ile Gln Pro Trp Arg Thr Met Asn Phe Cys Arg Tyr Arg Pro Arg Leu
65                  70                  75                  80
Val Leu Val Ser Ser Ser Arg Leu Met Lys Leu Ala Phe His Pro Asn
                85                  90                  95
Cys Thr Thr Leu Ser Ser Asn Pro Tyr Tyr Tyr Thr Ser His Thr Gly
            100                 105                 110
Arg Met Gly Ser Lys Val Ala Glu Glu Asn Cys Asp Thr Gln His Gln
        115                 120                 125
Ser Asn Thr Cys Arg Leu Met Met Leu Arg Arg Ser Thr Gly Ile Val
    130                 135                 140
Gln Glu Asp Thr Ile Arg
145                 150
```

<210> 26089
<211> 129
<212> PRT
<213> A.fumigatus

<400> 26089

```
Ala Trp Leu Arg Phe Ile Leu Asn Asp Leu Ala Gly Lys Lys Pro Gly
1               5                   10                  15
Arg Arg Thr Ile Val Ala Ile Lys Ile Pro Val Ala Thr Arg Gly Ser
            20                  25                  30
Thr Glu Thr Arg Gln Ile Asp Ile Leu Arg Trp Leu Asn Lys Thr Gly
        35                  40                  45
Leu Gly Glu Lys Ala His Pro Gly Ala Ala Tyr Ile Pro Ser Ile Leu
    50                  55                  60
Asp Ser Phe Ser Leu Ser Gly Pro Asn Gly Val His His Cys Tyr Val
65                  70                  75                  80
Thr Glu Pro Gly Met Thr Ser Leu Gly Glu Ala Lys Asp Ala Ser Ser
                85                  90                  95
Ile Arg Leu Phe Gln Leu Pro Val Ala Arg Ala Met Ala Ala Gln Leu
            100                 105                 110
Val Gln Ala Val Ala Phe Leu His Ser Gln Gly Ile Val His Gly Gly
        115                 120                 125
Asn
```

<210> 26090
<211> 92
<212> PRT
<213> A.fumigatus

<400> 26090

```
Trp Arg Ala Thr Tyr Met Ile Val Cys Thr Val Lys Ser His Gly Asp
1               5                   10                  15
Val Cys Ser Lys Ser Trp His Ser Gly Ala Pro Asp Leu Tyr Thr Asp
            20                  25                  30
Ile Glu Ile Asp Asp Asp Tyr Ala Arg Lys Val Ser Gly Arg Phe Leu
```

```
        35                  40                  45
Ser Ala Asn Gln Pro Ile Phe Arg Asn Phe Thr Arg Ile Tyr Ala Tyr
    50                  55                  60
Ile Cys Val Phe Cys Val Ala Gln Arg Thr Gln Tyr Asp Ala Leu Ala
65                  70                  75                  80
Leu Pro Leu Leu Leu Arg Leu Arg Asn Leu Met Phe
                85                  90
```

<210> 26091
<211> 76
<212> PRT
<213> A.fumigatus

<400> 26091

```
Gln Gly Ala Asp Ser Val Ile Ala Thr Val Thr Arg Ala Asp Gly Ser
1               5                   10                  15
Ala Glu Ser Thr Phe Arg Ala Leu Phe Leu Val Gly Ala Asp Gly Arg
            20                  25                  30
Lys Ser Thr Thr Arg Lys Leu Leu Gly Thr Gln Phe Lys Gly His Ser
        35                  40                  45
Trp Pro Glu Arg Leu Val Ala Ile Asp Val Arg Ile Lys Met Leu Ser
    50                  55                  60
Leu Thr Arg Ile Leu Arg Thr Ser Leu Phe Val Val
65                  70                  75
```

<210> 26092
<211> 245
<212> PRT
<213> A.fumigatus

<400> 26092

```
Ile Leu Lys Gly Tyr Lys Thr Ile Ile Thr Leu Pro Glu Lys Met Ser
1               5                   10                  15
Ala Glu Lys Val Ser Val Leu Arg Ala Leu Asn Ala Thr Ile Ile Arg
            20                  25                  30
Thr Pro Asn Glu Ala Ala Tyr Asp Ser Pro Glu Ser His Ile Gly Val
        35                  40                  45
Ala Lys Arg Leu Glu Lys Glu Ile Pro Asn Ala His Ile Leu Asp Gln
    50                  55                  60
Tyr Gly Asn Val Asn Asn Pro Leu Ala His Glu Leu Gly Thr Ala Glu
65                  70                  75                  80
Glu Ile Trp Thr Gln Thr Asn Gly Lys Ile Ser Ala Ile Val Ala Gly
                85                  90                  95
Ala Gly Thr Gly Gly Thr Ile Thr Gly Leu Ala Arg Gly Leu Lys Lys
            100                 105                 110
His Asn Pro Asn Val Lys Val Ile Ala Ala Asp Pro His Gly Ser Ile
        115                 120                 125
Leu Ala Val Pro Ala Asp Leu Asn Lys Glu His Glu Asn Glu Pro Tyr
    130                 135                 140
Lys Val Glu Gly Ile Gly Tyr Asp Phe Ile Pro Gln Val Leu Asp Gln
145                 150                 155                 160
Ser Val Val Asp Lys Trp Tyr Lys Thr Gly Asp Arg Glu Ser Phe Gln
                165                 170                 175
Tyr Ala Arg Arg Leu Ile Ala Glu Glu Gly Leu Leu Val Gly Gly Ser
            180                 185                 190
Ser Gly Ser Ala Ile Ser Ala Leu Val Gln Ala Ala Ala Asp His Thr
```

```
        195                 200                 205
Phe Thr Lys Asp Asp Val Val Val Val Ile Leu Pro Asp Ser Ile Arg
    210                 215                 220
Ser Tyr Leu Thr Lys Val Gln Ser Arg Pro Trp Leu Ser Leu Phe Val
225                 230                 235                 240
Lys Ser Asp Arg Ser
                245
```

<210> 26093
<211> 117
<212> PRT
<213> A.fumigatus

<400> 26093

```
Phe Ala Asp Asp Asp Trp Leu Ala Ala Asn Asp Leu Leu Pro Ser Leu
1               5                   10                  15
Ser Ser Glu Thr Thr Leu Val Ser Gln Ser Val Gln Pro Glu Ala Pro
            20                  25                  30
Lys Asp Lys Phe Ala Gly Ala Asn Val Lys Ser Leu Arg Leu Lys Pro
        35                  40                  45
Ile Thr Thr Val Arg Ser Asn Ile Pro Cys Glu Asn Ala Ile Glu Ile
    50                  55                  60
Met Arg Asp Arg Gly Phe Asp Gln Leu Pro Val Leu Ala Pro Ser Gly
65                  70                  75                  80
Lys Lys Leu Val Gly Leu Val Thr Leu Gly Asn Val Leu Ser Arg Leu
                85                  90                  95
Thr His Gly Arg Ala Thr Lys Lys Ser Leu Val Ala Asp Val Met Phe
            100                 105                 110
Asp Phe Gly Lys Ile
        115
```

<210> 26094
<211> 112
<212> PRT
<213> A.fumigatus

<400> 26094

```
Leu Lys Leu Asp Ile Leu Ile Ser Ile Trp Pro Phe Leu Gly Pro Ile
1               5                   10                  15
Ala His Thr Met Ser Ser Lys Thr Ser Pro Thr Val Pro Pro Val Ala
            20                  25                  30
Leu Asp Ala Ile Thr Gln His Ile Gly Asn Thr Pro Leu Val Arg Leu
        35                  40                  45
Asn Arg Val Pro Lys Ser Leu Gly Val Glu Ala Thr Val Tyr Ala Lys
    50                  55                  60
Leu Glu Tyr Phe Asn Ala Gly Gly Ser Val Lys Asp Arg Ile Ala Leu
65                  70                  75                  80
Arg Met Ile Glu Glu Ala Glu Arg Ser Gly Arg Ile Lys Pro Gly Asp
                85                  90                  95
Thr Leu Ile Glu Pro Thr Ser Gly Asn Thr Leu Val Ala Pro Ser Pro
            100                 105                 110
```

<210> 26095
<211> 249
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (8)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26095
Ile Gly Gly Lys Ala Arg Asp Xaa Glu Pro Phe Lys Arg Phe Pro Thr
1 5 10 15
Trp Met Trp Arg Asn Arg Glu Met Gln Asp Leu Val Glu Trp Met Arg
20 25 30
Asn Arg Asn Ala Lys Leu Pro Asn Glu Lys Lys Ala Gly Val Tyr Gly
35 40 45
Leu Asp Leu Tyr Ser Met Gly Ala Ser Ile Arg Ala Val Ile Asp Tyr
50 55 60
Leu Asp Arg Val Asp Pro Pro Ala Gly Lys Glu Ala Arg Arg Arg Tyr
65 70 75 80
Gly Cys Leu Gln Pro Trp Val Asp Glu Pro Ser Ala Tyr Gly Leu Ala
85 90 95
Ser Leu Arg Gly Met Glu Asp Cys Glu Ser Gly Val Leu Gln Met Leu
100 105 110
Arg Asp Leu Leu Asp Lys Arg Leu Gln Tyr Ala Gln His Asp Val Arg
115 120 125
Asp Gly Glu Glu Phe His Ser Gly Glu Gln Asn Ala Phe Val Val Arg
130 135 140
Asp Ala Glu Arg Tyr Tyr Lys Ala Met Tyr Tyr Ser Ser Ala Ser Ser
145 150 155 160
Trp Thr Leu Arg Asp Thr His Met Phe Asp Thr Leu Arg Arg Leu Phe
165 170 175
Arg His Lys Pro Ala Gly Ala Lys Ala Ile Val Trp Ala His Asn Ser
180 185 190
His Cys Gly Asp Ala Arg Tyr Thr Ser Met Gly Thr His Arg Asn Glu
195 200 205
Val Asn Ile Gly Gln Leu Ile Arg Glu Asn Phe Gly Arg Glu Asn Val
210 215 220
Ala Ile Leu Gly Cys Gly Thr His Thr Gly Thr Val Ala Ala Ala His
225 230 235 240
Glu Trp Asp Asp Asp Met Gln Val Met
245

<210> 26096
<211> 120
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (110),(116)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26096
Val Arg Pro Ser Arg Asp Asp Ser Trp Glu Thr Ile Ala His Asp Thr
1 5 10 15
Gly Ile Pro Ser Phe Val Ile Asp Leu Arg Lys Glu His Leu Asp Pro
20 25 30
Ala Ser Arg Thr Ala Met Ala Ala Glu Asn Ser Arg Leu Glu Arg Phe

```
        35                  40                  45
Ile Gly Val Ile Tyr Arg Pro Asp Thr Glu Arg Ile Ser His Tyr Ser
    50                  55                  60
Gln Ala Tyr Leu His Asn Gln Phe Asp Ala Tyr Ile Trp Phe Asp Val
65                  70                  75                  80
Thr Glu Ala Val Lys Pro Leu Glu Lys Val Gln Pro Lys Thr Pro Leu
                85                  90                  95
Gly Gln Asp Glu Thr Tyr Pro Phe Val Val Ser Val Ser Xaa Ser Pro
            100                 105                 110
His Gly His Xaa His Gln Arg Arg
        115                 120
```

<210> 26097
<211> 208
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (7)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26097

```
Leu Ala Ala Arg Pro Ala Xaa Trp Ser Pro Ser Ser Ala Phe Leu Pro
1               5                   10                  15
Gly Cys Gly Ala Thr Ala Arg Cys Arg Ile Ser Ser Ser Gly Cys Ala
            20                  25                  30
Thr Ala Thr Pro Asn Cys Pro Thr Arg Arg Arg Pro Gly Ser Thr Ala
        35                  40                  45
Trp Thr Ser Thr Ala Trp Ala Arg Arg Ser Ala Pro Ser Ser Ile Thr
    50                  55                  60
Trp Thr Ala Trp Ile His Pro Arg Ala Arg Arg Leu Ala Ala Gly Thr
65                  70                  75                  80
Ala Ala Ser Ser Pro Gly Trp Thr Asn Arg Pro Arg Thr Gly Trp Pro
                85                  90                  95
Arg Ser Gly Gly Trp Arg Thr Ala Arg Ala Ala Cys Cys Arg Cys Cys
            100                 105                 110
Ala Thr Cys Trp Thr Ser Ala Cys Asn Thr Arg Ser Thr Met Cys Val
        115                 120                 125
Met Gly Arg Ser Ser Thr Ala Ala Ser Arg Met Arg Leu Ser Ser Ala
    130                 135                 140
Thr Arg Asn Gly Thr Thr Arg Pro Cys Thr Thr Val Pro Pro Pro Arg
145                 150                 155                 160
Gly Pro Cys Val Thr His Thr Cys Leu Ile Leu Cys Gly Gly Cys Ser
                165                 170                 175
Gly Thr Ser Pro Leu Val Pro Arg Pro Ser Ser Gly Arg Thr Thr Arg
            180                 185                 190
Thr Ala Ala Met Arg Ala Ile Pro Val Trp Ala Arg Thr Ala Thr Arg
        195                 200                 205
```

<210> 26098
<211> 236
<212> PRT
<213> A.fumigatus

<400> 26098

```
Thr Ala Pro Val Asp Cys Phe Gln Arg Pro Ser Pro Tyr Ala Lys Leu
1               5                  10                  15
Asp Arg Gly Val Pro Cys Ala Asp Gln Ser Gln Ser Trp Gly Ser Pro
            20                  25                  30
Tyr Arg Gly Gln Trp Ser Pro Ser Cys His His Gly Thr Ala Ala Pro
        35                  40                  45
Thr Ser Pro Ala Tyr Arg Arg Pro Ile Arg Gly Arg Arg Pro Arg Cys
    50                  55                  60
Gln Tyr Ala Cys His Ile Arg Gly Leu Arg His Ser His Gly Gln Asn
65                  70                  75                  80
Ser Pro Gly Ser Thr Gly Arg Tyr Ser Pro Arg Cys Gly Ala Cys Pro
                85                  90                  95
Tyr Trp Tyr Ser Ala His Arg Arg Ser Ala Ser Cys Ala Pro Arg Arg
            100                 105                 110
Trp Pro Trp His Gln Arg Ala Cys Ala Gly Thr Ala Ala Ala Glu Tyr
        115                 120                 125
Gln Thr Cys Val Cys His Ala Gly Ser Thr Arg Arg Arg Asn Cys Ser
    130                 135                 140
Thr Trp Pro Cys Ser Thr Val Pro Arg Arg Gly Arg Gln Thr His Ser
145                 150                 155                 160
Ala Arg Arg Cys Gly Thr Pro Pro His His Ala His Arg Ala Ala Arg
                165                 170                 175
Ile Ala Gly Ala Cys Pro Ala Gly Arg Ala Ala Ser Ala Ala Arg Arg
            180                 185                 190
Ser Arg Ser Pro Pro Ser Pro Gly Ala Arg Pro Ala Arg Thr Arg Thr
        195                 200                 205
Val Arg Pro Pro Arg Ala Gly Gly Ser Arg Thr Gly Gly Glu Pro Pro
    210                 215                 220
Cys Pro Arg Val Asp Pro Arg Gly Pro Gly Asn Arg
225                 230                 235
```

<210> 26099
<211> 345
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (338)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26099

```
Gly Ser Leu Trp Leu His Leu Leu Gln Trp Phe His Gly Phe Ser Asn
1               5                  10                  15
Val Glu Pro Asp Ile Arg Val Glu Leu Val Val Glu Ile Cys Leu Arg
            20                  25                  30
Val Val Arg Asp Thr Leu Arg Ile Arg Thr Ile Asp Asp Pro Asn Glu
        35                  40                  45
Pro Leu Gln Ser Thr Val Phe Ser Gly His Arg Arg Thr Arg Ser Trp
    50                  55                  60
Ile Glu Val Phe Leu Ala Gln Ile Asn His Lys Ala Gly Asp Pro Arg
65                  70                  75                  80
Ile Val Gly Asn Gly Leu Pro Ala Val Ile Thr Gly Arg Pro His Leu
                85                  90                  95
His His Leu His Ile Val Val Pro Phe Val Gly Gly Gly His Gly Ala
            100                 105                 110
```

```
Ser Met Arg Ala Thr Ser Glu Asp Cys Asp Ile Leu Thr Ala Lys Ile
        115                 120                 125
Leu Pro Asp Gln Leu Ala Asp Ile His Leu Val Ala Val Arg Ala His
    130                 135                 140
Thr Gly Ile Ala Arg Ile Ala Ala Val Arg Val Val Arg Pro Asp Asp
145                 150                 155                 160
Gly Leu Gly Thr Ser Gly Leu Val Pro Glu Gln Pro Pro Gln Ser Ile
                165                 170                 175
Lys His Val Cys Val Thr Gln Gly Pro Arg Gly Gly Gly Thr Val Val
            180                 185                 190
His Gly Leu Val Val Pro Phe Arg Val Ala Asp Asp Lys Arg Ile Leu
        195                 200                 205
Leu Ala Ala Val Glu Leu Leu Pro Ile Thr His Ile Val Leu Arg Val
    210                 215                 220
Leu Gln Ala Leu Val Gln Gln Val Ala Gln His Leu Gln His Ala Ala
225                 230                 235                 240
Leu Ala Val Leu His Pro Pro Glu Arg Gly Gln Pro Val Arg Gly Arg
                245                 250                 255
Phe Val His Pro Gly Leu Glu Ala Ala Val Pro Ala Ala Ser Leu Leu
            260                 265                 270
Ala Arg Gly Trp Ile His Ala Val Gln Val Ile Asp Asp Gly Ala Asp
        275                 280                 285
Arg Arg Ala His Ala Val Glu Val Gln Ala Val Asp Pro Gly Leu Leu
    290                 295                 300
Leu Val Gly Gln Phe Gly Val Ala Val Ala His Pro Leu Asp Glu Ile
305                 310                 315                 320
Leu His Leu Ala Val Ala Pro His Pro Gly Arg Lys Ala Leu Glu Gly
                325                 330                 335
Leu Xaa Val Ala Gly Leu Ala Ala Asn
            340                 345
```

<210> 26100
<211> 186
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26100

```
Lys Ser Ser Xaa Gln Phe Pro Ser Leu Leu Ser Tyr Gly Gln Ser Cys
1               5                   10                  15
Gly Phe Gly Ala Ile Phe Val Glu Leu Tyr Phe Ile Met Thr Ser Leu
            20                  25                  30
Trp Thr Asn Lys Ile Tyr Tyr Met Phe Gly Phe Leu Phe Leu Cys Tyr
        35                  40                  45
Gly Leu Met Ile Met Thr Thr Ala Ala Thr Thr Val Leu Leu Val Tyr
    50                  55                  60
Phe Leu Leu Cys Ala Glu Asn Tyr Arg Trp His Trp Arg Ala Phe Ala
65                  70                  75                  80
Gly Ala Gly Met Thr Gly Phe Tyr Val Phe Ile Asn Ala Phe Ile Phe
                85                  90                  95
Trp Ile Thr Arg Val Ser Phe Gly Gly Leu Thr Gly Ala Val Leu Tyr
            100                 105                 110
```

```
Val Gly Tyr Ser Ala Leu Ile Gly Phe Leu Val Phe Ile Leu Thr Gly
        115                 120                 125
Met Leu Phe Val Leu Glu Pro Gly Trp Arg Val Trp Ser Trp Cys Leu
    130                 135                 140
Thr His Phe Ala Gln Val Arg Leu Asp Ser Ser Pro Ala Gly Arg Leu
145                 150                 155                 160
Cys Asn Ala Ser Thr Ala Arg Ser Arg Ser Thr Asn Leu Arg Thr Leu
                165                 170                 175
Phe Met Pro Phe Lys Val Ile Ile Ile Arg
            180                 185
```

<210> 26101
<211> 215
<212> PRT
<213> A.fumigatus

<400> 26101

```
Pro Gln Thr Gln Trp Cys His Ile Gly Lys Arg Ser Leu Asp Arg Ala
1               5                   10                  15
Ile Ala Leu Tyr Arg Lys Thr Tyr Pro Gly Gly Arg Asn Asp Thr Ile
            20                  25                  30
Thr Ile Lys Trp Arg Pro Phe Tyr Leu Asn Pro Asn Arg His Gly Arg
        35                  40                  45
Ser Val Pro Lys Ser Val Leu Ile Asp Glu Arg Leu Lys Asp Lys Thr
    50                  55                  60
Pro Glu Gln Arg Ala Ala Met Val Lys Arg Val Glu Lys Ile Ala Gln
65                  70                  75                  80
Ser Val Gly Val Arg Ile Asn Tyr Gly Gly Met Ile Gly Pro Asp Thr
                85                  90                  95
Arg Asp Ala His Arg Leu Val Tyr Leu Ser Arg Glu Asp Pro Ala Ile
            100                 105                 110
Ser Ser Glu Ile His Gly Glu Leu Val Glu Arg Leu Leu Glu Ala Phe
        115                 120                 125
His Glu Arg Ala Met Asp Ile Thr Arg Pro Glu Val Leu Lys Glu Ala
    130                 135                 140
Ala Ala Ala Ala Gly Ile Glu Ala Ala Val Val Glu Arg Trp Leu Ala
145                 150                 155                 160
Glu Asp Val Gly Asn Val Val Asp Glu Glu Ala Arg Lys Tyr Arg Glu
                165                 170                 175
Val Glu Gly Ile Lys Gly Val Pro Arg Phe Arg Phe Gln Gly Lys Tyr
            180                 185                 190
Glu Trp Asp Gly Glu Asp Leu Gln Glu Cys Met Glu Ile Met Gly Lys
        195                 200                 205
Val Lys Ala Glu Glu Gly Ser
    210                 215
```

<210> 26102
<211> 131
<212> PRT
<213> A.fumigatus

<400> 26102

```
Thr Phe Leu Ser Asp Asp Val Phe Val Glu Gln Arg Ile Asp Ala Pro
1               5                   10                  15
Phe Ser Pro His Ala Asp His Asp Lys Leu Asn Tyr Leu His Ala Tyr
            20                  25                  30
```

```
Ile Ser Phe Ser Tyr Arg Asp Arg Thr Pro Tyr Leu Ser Val Tyr Leu
        35                  40                  45
Gln Ser Phe Glu Thr Gly Asp Trp Ala Val Gly Lys Pro Ile Tyr Leu
    50                  55                  60
Pro Asn Lys Thr Phe Ile Gly Ser Leu Ile Met Asp Val Ile Leu Thr
65                  70                  75                  80
Ile His Gln Gln Thr Tyr Pro Asn Gln Arg Ser Ser Val Arg Met Arg
                85                  90                  95
Pro Val Asn Pro Gln Leu Tyr Leu Gln Ile Cys Gln Arg Gln Gly Tyr
            100                 105                 110
Ile Ile Pro Val Ser Thr Asp Glu Gln Leu Gly Thr Tyr Phe Arg Ala
        115                 120                 125
Val Thr Arg
    130
```

<210> 26103
<211> 136
<212> PRT
<213> A.fumigatus

```
<400> 26103
Pro Phe Met Tyr Asp Tyr Leu Val Thr Met Gly Ser His Ser Pro Leu
1               5                   10                  15
Lys Phe Glu Tyr Met Arg Leu Ser Gly Leu Gly Leu Phe Ser Pro Cys
            20                  25                  30
Ile Thr Ser Ser Leu Ser Leu Thr Pro Asp Gln Pro Asp Ala Phe Thr
        35                  40                  45
Ser Pro Cys Ser Thr His Ala Ser Gln Ser Ile Ala Thr Pro Lys Ser
    50                  55                  60
His Asp Gln Arg Gln Val Met Ala Asp Gln Val Gly Phe His Arg Leu
65                  70                  75                  80
Phe Arg Ser Leu Ala Phe Ile Leu Ser Ala Glu Ala His Ala Ser Pro
                85                  90                  95
Tyr Ile Gln Gln Arg Gln Asp Asp Asp Thr Leu Asn Ile Pro Pro Ile
            100                 105                 110
Phe Leu Gly Ser Pro Thr Ser Ala Ala Met Ala Ile Asn Pro Cys Met
        115                 120                 125
Ala Val Ser Val Glu Glu Ser Gly
    130                 135
```

<210> 26104
<211> 65
<212> PRT
<213> A.fumigatus

```
<400> 26104
Leu Cys Thr Trp Phe Thr Arg Thr Val Ile Gly Arg Thr Arg Tyr Leu
1               5                   10                  15
Arg Lys Leu Glu Leu Trp Arg Gly Asp Ile Thr Val Leu Ala Thr Asp
            20                  25                  30
Tyr Ser Leu Leu Pro His Arg Tyr Ala Asn Thr Leu Thr Glu Arg Met
        35                  40                  45
Ile Leu Ile Ser Ile Asn Leu His His Lys Ala Glu Asp Pro Arg Lys
    50                  55                  60
Val
65
```

<210> 26105
<211> 112
<212> PRT
<213> A.fumigatus

<400> 26105
Pro Gly Arg Arg Trp Gly Arg Gln Pro Ala Gln Ser Ala Asp Gly Gly
1 5 10 15
Ser Ile Gly Trp Ser Leu Ser Lys Arg Ser Ala Arg Gly Gly Phe Glu
20 25 30
Glu Leu Ala Ala Leu Arg Val Gly Leu Glu Asp Gly Lys Cys Val Asp
35 40 45
His Ala Pro Cys Ile Glu Glu Glu Asn Lys Ala Gly Gly Asn Leu Gln
50 55 60
Leu Tyr His Glu Ser Ala Ile Arg Arg Leu Ser Ala Gln Ala Tyr Asn
65 70 75 80
Tyr Gly Leu Leu Ile His Leu His Leu Pro Asn Met Met His Gly Ile
85 90 95
Ser Ser Asp Leu Ala His Glu Tyr Ser Lys Ile Val Phe Thr Gly Gly
100 105 110

<210> 26106
<211> 325
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (144),(171),(173)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26106
Gly Arg Gly Phe Pro Pro Val Val Lys Thr Asp Asn Ser Gly Asn Arg
1 5 10 15
Pro Trp Thr Pro Pro Ser Ser Thr Val Thr Pro Gly Pro Gly Met Ser
20 25 30
Tyr Ser Pro Val Val Glu Asn Arg Pro Tyr Asn Tyr Gly Ala Pro Pro
35 40 45
Pro Pro Thr Thr Ser Tyr Glu Arg Pro His Asn Val Tyr Pro Ser Gln
50 55 60
Thr Ser Glu Gly Met Ala Leu Gly Phe Ser Pro Gln Thr Lys Pro Gln
65 70 75 80
Gln Tyr Asp Asn Glu Tyr Asn Asn Ser Gly Pro Pro Pro Tyr Thr Gln
85 90 95
His Ser Tyr Gly Ser Pro Gln Ser Tyr Pro Pro Tyr Pro Thr His Asp
100 105 110
Thr Tyr Pro Ala His Pro Pro Thr Gln Pro Pro Tyr Pro Gln Asp Arg
115 120 125
Lys Asp Glu Arg Gly Phe Met Gly Ala Val Ala Gly Gly Ala Val Xaa
130 135 140
Ala Tyr Ala Gly His Gln Val His His Gly Val Leu Gly Thr Ile Gly
145 150 155 160
Gly Ala Ile Thr Gly Ser Val Ala Glu Asp Xaa Ile Xaa Lys His Lys
165 170 175
Lys Lys Lys Lys Lys Glu Lys Lys Glu Gly Lys Trp Gly His Gly Arg

```
            180                 185                 190
Arg Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp Asn Gly Arg Ala
        195                 200                 205
His His Gln Gln His Pro Pro Ala Ala Ala Ser Leu Arg Ser Asn Phe
    210                 215                 220
Ser Ala Ser Ser Thr Glu Asn Tyr Leu Glu His Glu Tyr Glu Leu Thr
225                 230                 235                 240
Ala Arg Cys Arg Ser Ile Ser Gly Glu Met His Arg Ser Ser Ile Ser
                245                 250                 255
Leu Asn Ser Val Leu Ser Asn His Phe Gly Ser Phe Val Trp Ala Arg
            260                 265                 270
Gly Gly Asn Phe Gly Ala Ser Ala Arg Asn Val His Leu Ala Glu Gly
        275                 280                 285
Gly Arg Val Leu Asp Ala Glu Leu Ala Asp Gly Asn Gly His Trp Lys
    290                 295                 300
Arg Ala Trp Val Arg Leu Asp Glu Arg Ile Thr Asn Gln Asn Gly His
305                 310                 315                 320
Leu Val Phe Leu Asp
                325
```

<210> 26107
<211> 122
<212> PRT
<213> A.fumigatus

<400> 26107

```
Gln Phe Glu Ser Ser Asp Val Asn Ile Met Ala Ser Ser Ala Ile Ser
1               5                   10                  15
Gly Ala Asp Leu Arg Ser Phe Thr Glu Tyr Leu Lys Gly Cys Lys Arg
            20                  25                  30
Ile Leu Ala Leu Leu Gly Ala Gly Ile Ser Ala Ser Ser Gly Leu Pro
        35                  40                  45
Thr Phe Arg Gly Ala Gly Gly Leu Trp Arg Ser Tyr Asp Ala Thr Asp
    50                  55                  60
Leu Ala Thr Pro Glu Ala Phe Glu Ala Asn Pro Asp Leu Val Trp Gln
65                  70                  75                  80
Phe Tyr Ser Tyr Arg Arg His Met Ala Leu Lys Ala Asn Pro Asn Arg
                85                  90                  95
Ala His His Ala Leu Ala Glu Leu Ala Arg Lys Asn Arg Asp Phe Ile
            100                 105                 110
Thr Leu Thr Gln Asn Val Asp Gly Thr Val
        115                 120
```

<210> 26108
<211> 218
<212> PRT
<213> A.fumigatus

<400> 26108

```
Thr Arg Leu Thr Ser Gly Arg Phe Asp Val Gly Leu Ser Gln Arg Ala
1               5                   10                  15
Asn His Pro Ser Glu Gln Leu His Leu Leu His Gly Ser Leu Phe Thr
            20                  25                  30
Val Lys Cys Thr Ser Phe Tyr Cys Asn Tyr Val Arg Glu Asn Asp Phe
        35                  40                  45
Thr Asp Pro Ile Val Pro Glu Leu Ala Ile Pro Lys Gly Val Pro Asp
```

```
    50                  55                  60
Leu Ser Pro Ser Ala Glu Asp Lys Thr Gly Glu Glu Ala Ser Lys Ala
65                  70                  75                  80
Leu Ser Asn Ala Leu Arg Met Glu Glu Thr Glu Leu Asp Ile Ser Asp
                85                  90                  95
Glu Asn Val Pro Leu Pro Ala Leu Ser Gln Asp Val Leu Pro His Cys
            100                 105                 110
Pro Glu Cys Lys Glu Gly Leu Leu Arg Pro Gly Val Val Trp Phe Gly
        115                 120                 125
Glu Gly Leu Pro Leu His Thr Leu Glu Thr Val Asp Lys Trp Leu Asn
    130                 135                 140
Ser Gly Pro Val Asp Leu Ile Leu Val Ile Gly Thr Ser Ser Arg Val
145                 150                 155                 160
Tyr Pro Ala Ala Gly Tyr Val Asp Lys Ala Arg Ala Arg Gly Ala Arg
                165                 170                 175
Val Ala Val Val Asn Met Asp Arg Asn Asp Val Gly Tyr Ser Gly Leu
            180                 185                 190
Lys Lys Gly Asp Trp Phe Phe Gln Gly Asp Ala Gly Val Ile Val Pro
        195                 200                 205
Glu Ile Leu Gln Gly Val Ile Gly Asp Ile
    210                 215

<210> 26109
<211> 74
<212> PRT
<213> A.fumigatus

<400> 26109
Phe Ala Arg Cys Glu Arg Pro Thr Ser Lys Arg Pro Leu Val Ser Leu
1               5                   10                  15
Val Gln Leu Asp Tyr Thr Ser Thr Arg Ile Cys Ser Leu Asp Ser Thr
            20                  25                  30
Ile Asn Ile Leu Cys Glu Cys Asp Lys Ile Pro Ile Leu Pro Cys Lys
        35                  40                  45
Leu Cys Lys Gly Val Val Arg Ala Val Arg Val Arg Phe Glu Cys His
    50                  55                  60
Val Ser Pro Val Ala Val Lys Leu Pro Tyr
65                  70

<210> 26110
<211> 62
<212> PRT
<213> A.fumigatus

<400> 26110
Asp Arg Gln Arg Pro Pro Ala Pro Arg Asn Val Gly Ser Pro Glu Asp
1               5                   10                  15
Ala Asp Ile Pro Ala Pro Lys Ser Ala Ser Ile Arg Leu His Pro Phe
            20                  25                  30
Lys Tyr Ser Val Asn Asp Arg Arg Ser Ala Pro Asp Ile Ala Asp Glu
        35                  40                  45
Ala Ile Met Phe Thr Ser Leu Leu Ser Asn Cys Tyr Val Ser
    50                  55                  60

<210> 26111
<211> 80
```

<212> PRT
<213> A.fumigatus

<400> 26111
Ser Pro Glu Ser Leu Asn Val Ser Asn Asp Thr Leu Gln Tyr Leu Arg
1 5 10 15
Asp Tyr Asn Thr Arg Val Ser Leu Glu Lys Pro Ile Thr Phe Phe Gln
20 25 30
Ala Arg Ile Pro Asn Ile Ile Ala Ile His Ile Asp His Ser Asp Ser
35 40 45
Gly Pro Ser Arg Thr Arg Leu Ile Asn Val Ala Cys Ser Trp Val Asp
50 55 60
Ser Arg Thr Cys Ser Asn His Gln Asp Gln Ile His Gly Thr Arg Ile
65 70 75 80

<210> 26112
<211> 207
<212> PRT
<213> A.fumigatus

<400> 26112
Val Thr Gln Tyr Leu Leu Pro Leu Ser Leu Ala His Pro Leu Ser Glu
1 5 10 15
Val Val Gly Arg Arg Pro Val Tyr Gly Ala Thr Leu Leu Leu Ala Phe
20 25 30
Ile Phe Val Ile Pro Cys Ala Val Ser Lys Asn Leu Gly Thr Leu Ile
35 40 45
Val Cys Arg Ala Ile Asp Gly Ile Ala Phe Ser Ala Pro Met Thr Leu
50 55 60
Val Gly Gly Thr Leu Ala Asp Leu Trp Arg Asn Glu Glu Arg Gly Val
65 70 75 80
Pro Met Ala Ala Phe Ser Ala Ser Pro Phe Ile Gly Pro Ala Ile Gly
85 90 95
Pro Leu Val Gly Gly Tyr Leu Cys His Ala Gly Trp Arg Trp Leu Tyr
100 105 110
Trp Ile Gln Leu Ile Leu Ala Phe Val Ala Trp Val Leu Ile Thr Phe
115 120 125
Thr Val Pro Glu Thr Tyr Ala Pro Met Ile Leu Leu Lys Arg Ala Lys
130 135 140
Lys Leu Arg Lys Ser Glu Asn Asp Pro Lys Tyr Val Thr Glu Thr Glu
145 150 155 160
Leu Asp Ala Arg Pro Met Gly Glu Arg Leu Arg Leu Phe Leu Leu Arg
165 170 175
Pro Phe Gln Leu Leu Phe Leu Glu Pro Ile Val Leu Phe Ile Ser Ile
180 185 190
Tyr Met Ser Val Leu Tyr Gly Leu Leu Tyr Met Phe Phe Val Ala
195 200 205

<210> 26113
<211> 108
<212> PRT
<213> A.fumigatus

<400> 26113
Leu Pro Arg Tyr Val Phe Phe Asn Phe Leu Asn Asp Gly Ile Val Leu
1 5 10 15

```
Ile Val Thr Thr Val Asp Thr Tyr Gln His Gln Ala Ala Ser Ala Leu
            20                  25                  30
Ala Ala Lys Thr Phe Leu Arg Ser Met Trp Gly Ala Ser Thr Val Leu
        35                  40                  45
Phe Thr Glu Gln Met Tyr Asp Arg Leu Asn Asp Arg Trp Ala Ser Thr
    50                  55                  60
Leu Leu Ala Phe Ile Ala Leu Ala Cys Cys Ala Ile Pro Tyr Val Phe
65                  70                  75                  80
Tyr Phe Lys Gly Ala Ser Ile Arg Arg Tyr Ser Lys Phe Ala Phe Ala
                85                  90                  95
Asp Asp Glu Glu Gln Gln Gly Pro Gly Glu Lys His
            100                 105
```

<210> 26114
<211> 126
<212> PRT
<213> A.fumigatus

<400> 26114

```
Gln Leu Ile Ser Arg Tyr Pro Ile Val Tyr Gln Lys Gly Lys Gly Trp
1               5                   10                  15
Gly Ser Gly Pro Thr Gly Leu Met Phe Ile Pro Leu Ala Ile Gly Val
            20                  25                  30
Leu Cys Ser Ala Ala Cys Ala Pro Phe Val Asn Lys His Tyr Leu Thr
        35                  40                  45
Leu Val Lys Lys His Gly Gly Lys Pro Pro Ala Glu Ala Arg Leu Ile
    50                  55                  60
Pro Met Met Leu Ser Cys Trp Phe Ile Pro Ile Gly Leu Phe Ile Phe
65                  70                  75                  80
Ala Trp Thr Ser Tyr Pro Asp Ile His Trp Ile Gly Pro Cys Ile Gly
                85                  90                  95
Gly Leu Pro Val Gly Phe Gly Phe Ile Phe Leu Tyr Asn Ser Ala Asn
            100                 105                 110
Asn Tyr Leu Gly Met Phe Ser Ser Ile Ser Ser Thr Met Val
        115                 120                 125
```

<210> 26115
<211> 91
<212> PRT
<213> A.fumigatus

<400> 26115

```
Ile Cys Ser Glu Asn Asn Val Ile Pro Ile Tyr Ile Pro Thr Tyr Ser
1               5                   10                  15
Leu Tyr Leu Leu Gln Pro Leu Asp Ile Ser Cys Phe Ser Pro Leu Lys
            20                  25                  30
Cys Val Tyr Arg Tyr Leu Val Glu Thr Lys Ile Tyr Leu Arg Phe Asn
        35                  40                  45
Tyr Ile Asn Lys Leu Asp Phe Leu Lys Ala Phe Pro Gln Ala Tyr Ile
    50                  55                  60
Glu Ile Tyr Ile Thr Ser Asn Ile Cys Ser Gly Phe Ser Ala Thr Arg
65                  70                  75                  80
Leu Val Leu Tyr Asn Leu Glu Arg Val Leu Ser
                85                  90
```

<210> 26116

<211> 70
<212> PRT
<213> A.fumigatus

<400> 26116
Ile Met Thr Phe Thr Ala Ala Trp Trp Cys Leu Tyr Met Trp Phe Asn
1 5 10 15
Cys Arg Lys Pro Trp Ile Pro Arg His Ser Ile Leu Ser Phe Lys Asp
20 25 30
Leu Ile Leu Leu Leu Glu Ser Leu Leu Ala Phe Leu Asp Arg Lys Asn
35 40 45
Leu Tyr Ser Ile Lys Leu Pro Ser Arg Ser Leu Ile Phe Phe Lys Leu
50 55 60
Phe Leu Ile His Ser Leu
65 70

<210> 26117
<211> 102
<212> PRT
<213> A.fumigatus

<400> 26117
Lys Met Ile Phe Pro Ser Tyr Thr Ala Ser Ser Ser Arg Asn Lys Glu
1 5 10 15
Ile Leu Lys Leu Ile Lys Ala Tyr Ile Ile Thr Ser Leu Thr Ile Trp
20 25 30
Thr Asn Phe Asn Pro Leu Val Ala Trp Glu Gly Trp Ile Leu Ile Pro
35 40 45
Pro Leu Tyr Ile Asp Leu Ser Phe Lys Asp Asn Ile Arg Arg Lys His
50 55 60
Leu Thr Arg Gly Ile Asn Ile Leu Asn Arg Ser Asn Leu Phe Pro Ile
65 70 75 80
Ala Trp Leu Tyr Lys Arg Cys Phe Pro Ile Asp Ile Ser Ser Ser Tyr
85 90 95
Tyr Phe Ser Ser Ser Tyr
100

<210> 26118
<211> 121
<212> PRT
<213> A.fumigatus

<400> 26118
Arg Thr Gly Pro Pro Pro Tyr Gly Asn Arg Ala Gly Trp Arg Pro Arg
1 5 10 15
Ala Ala Glu Asp Phe Gly Asp Gly Gly Ala Phe Pro Glu Ile Leu Val
20 25 30
Ala Gln Tyr Pro Leu Asp Met Gly Arg Lys Gly Thr Ala Thr Thr Ser
35 40 45
Asn Ala Leu Ala Val Gln Val Asp Ala Glu Gly Lys Val Lys Tyr Asp
50 55 60
Ala Ile Ala Arg Arg Gly His Ser Glu Asn Arg Ile Val His Ala Ser
65 70 75 80
Phe Gln Gly Ser Asp Ser Ala Pro Ala Ala Gly Gly Tyr Gly Arg Asn
85 90 95
Leu Ala Arg Pro Ser Val Gly Gly Arg Gly Pro Gly Ala Asp Gly Glu

```
            100                 105                 110
Asp Gln Glu Cys Ala Gly Glu Pro Gly
        115                 120
```

<210> 26119
<211> 306
<212> PRT
<213> A.fumigatus

<400> 26119

```
Leu Ser Trp Phe Thr Met Tyr Arg Glu Pro Ala Leu His His Met Ala
1               5                  10                  15
Thr Val Gln Asp Gly Asp Leu Glu Gln Leu Arg Ile Ser Ala Thr Val
            20                  25                  30
Ala Arg Ser Pro Arg Ser Trp Leu Arg Ser Ile Leu Ser Thr Trp Ala
        35                  40                  45
Ala Arg Val Leu Arg Arg His Arg Thr Arg Ser Arg Cys Arg Leu Thr
    50                  55                  60
Arg Lys Ala Lys Ser Ser Thr Thr Arg Ser Pro Ala Gly Val Thr Val
65                  70                  75                  80
Arg Thr Ala Ser Ser Met Leu Pro Phe Lys Asp Leu Ile Pro Leu Arg
                85                  90                  95
Gln Arg Val Asp Met Gly Glu Ile Ser Leu Asp Arg Pro Ser Glu Glu
            100                 105                 110
Glu Val Gln Ala Gln Met Glu Lys Thr Lys Asn Ala Leu Ala Ser Leu
        115                 120                 125
Val Glu Gly Ala Val Ala Ala Gln Lys Pro Lys Asn Val Lys Gly Gly
    130                 135                 140
Arg Arg Ala Glu Pro Thr Phe Val Arg Tyr Thr Pro Ala Asn Gln Met
145                 150                 155                 160
Gly Asp Thr Thr Arg Lys Asn Asp Arg Ile Met Lys Ile Val Glu Arg
                165                 170                 175
Gln Gln Asp Pro Met Glu Pro Pro Lys Phe Lys His Lys Lys Ile Pro
            180                 185                 190
Arg Gly Pro Pro Ser Pro Pro Pro Pro Ile Met His Ser Pro Pro Arg
        195                 200                 205
Lys Leu Thr Ala Glu Asp Gln Glu Ala Trp Arg Ile Pro Pro Pro Val
    210                 215                 220
Ser Asn Trp Lys Asn Pro Lys Gly Tyr Thr Val Pro Leu Asp Lys Arg
225                 230                 235                 240
Leu Ala Ala Asp Gly Arg Gly Leu Gln Asp Val Thr Ile Asn Asp Lys
                245                 250                 255
Phe Ala Gln Phe Ala Glu Ala Leu Phe Thr Ala Asp Arg His Ala Arg
            260                 265                 270
Glu Glu Val Arg Leu Arg Ala Gln Met Gln Gln Lys Leu Ala Glu Lys
        275                 280                 285
Glu Asn Pro Gln Gln Glu Asp Phe His Gln Gly Gln Ala Val Arg Asp
    290                 295                 300
Thr His
305
```

<210> 26120
<211> 87
<212> PRT
<213> A.fumigatus

<400> 26120
Cys Asp Gly Ser Cys Arg Cys Val Gly Gly Pro Arg Pro Ala Ser Asp
1 5 10 15
Ile Lys Gly His Ser Gln Gly Arg Tyr His Pro Val Thr Leu Leu Trp
20 25 30
Thr Ser Leu Thr Val Cys Lys Phe Gln Ile Leu Gly Phe Tyr Asp Pro
35 40 45
Ala Pro Leu Leu Pro Lys Lys Leu Lys Ile Trp Tyr Thr Tyr Arg Gly
50 55 60
Asn Glu His Phe Val Glu Ala Asn Asp Ser Glu Gly Ile Ala Cys Pro
65 70 75 80
Met Arg Thr His Leu Val Gly
85

<210> 26121
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26121
Gly Gly Lys Trp Gly Asn Gly Met Gln Leu Arg Pro Cys Tyr Leu Asn
1 5 10 15
Phe Arg Ile Asn Phe Tyr Ile Phe Phe Ser Ala His Pro Asp Lys Phe
20 25 30
Asn Leu Lys Pro Met Asp Leu His His Cys Trp Ala Leu Ser Ile Lys
35 40 45
Arg Leu Asn Thr Trp Ala Phe Val Asp Leu Thr Ala Arg Arg Lys Ile
50 55 60
Val Pro Pro
65

<210> 26122
<211> 380
<212> PRT
<213> A.fumigatus

<400> 26122
Ala Trp Val Leu Ile Pro Ser Glu Gly Val Gln Val Glu Pro Glu Ala
1 5 10 15
Thr Asp Leu Phe Glu Ser Ala Asp Ser Met Ala Arg Pro Ser Leu Ser
20 25 30
Pro Ser Asn Pro Leu Gly Phe Thr Pro Trp Pro Val Thr Val Ile Thr
35 40 45
Ala Val Val Tyr Leu Ala Leu Val Val Pro Leu Leu Val Val His His
50 55 60
Val Val Pro Ser Ala Pro Ser Ser Ser Pro Lys Gly Leu Asn Leu Thr
65 70 75 80
Glu Ala Trp Ala Asp Leu Gln Glu Leu Thr His Gly Phe His Pro Tyr
85 90 95
Asn Ser His Arg Asn Asp Glu Val His Glu Trp Leu Leu Lys Arg Ile
100 105 110
Leu Glu Leu Ile Asp Ser Ala Pro Pro Ala Ser Glu Tyr Gly Ser Val
115 120 125
Gly Glu Glu Lys Pro Asp Ile Val Val Phe Asp Asp Thr Gln Ser Asn
130 135 140
Leu Thr Phe Ser Gly Arg Gly Ser Gly Leu Gly Val Tyr Phe Glu Ser

```
145                 150                 155                 160
Thr Asn Ile Met Val Tyr Ile Arg Gly Trp Glu Glu Asp Arg Glu Arg
                165                 170                 175
Trp Trp Glu Asp Pro His Gly Arg Pro Ala Gly Lys Gly Gly Val Leu
            180                 185                 190
Val Asn Ala His Tyr Asp Ser Val Ser Thr Gly Tyr Gly Ala Thr Asp
        195                 200                 205
Asp Gly Val Gly Val Val Ser Cys Leu Gln Leu Ile Lys Tyr Phe Thr
    210                 215                 220
Thr Pro Gly His Val Pro Arg Arg Gly Leu Val Leu Leu Phe Asn Asn
225                 230                 235                 240
Gly Glu Glu Asp Phe Leu Asn Gly Ala Arg Val Tyr Ser Gln His Pro
                245                 250                 255
Ile Ser Gln Leu Pro His Thr Phe Leu Asn Leu Glu Gly Ala Gly Ala
            260                 265                 270
Gly Gly Arg Ala Thr Leu Phe Arg Ser Ser Asp Ala Glu Val Thr Lys
        275                 280                 285
Pro Tyr Met Arg Ala Pro His Pro Phe Gly Ser Val Leu Ser Ala Asn
    290                 295                 300
Gly Phe Glu Ala Gly Leu Ile Ser Ser Gln Thr Asp Tyr Val Val Phe
305                 310                 315                 320
Glu Gly Asp Leu Gly Leu Arg Gly Leu Asp Val Ala Phe Met Glu Pro
                325                 330                 335
Arg Ala Arg Tyr His Thr Asp Glu Asp Asp Ala Arg His Thr Ser Leu
            340                 345                 350
Ala Ser Val Trp His Met Leu Ser Ala Ala Val Ala Thr Thr Glu Gly
        355                 360                 365
Leu Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg Gln
    370                 375                 380
```

<210> 26123
<211> 181
<212> PRT
<213> A.fumigatus

<400> 26123

```
Arg Tyr Ala Val Glu Pro Tyr Phe Leu Arg Pro Arg Leu Gly Pro Arg
1               5                   10                  15
Gly Val Phe Arg Glu Tyr Gln Tyr His Gly Val Tyr Pro Gly Leu Gly
            20                  25                  30
Arg Gly Gln Gly Ala Leu Val Gly Arg Pro Thr Arg Pro Ala Gly Gly
        35                  40                  45
Gln Gly Arg Arg Pro Gly Glu Arg Thr Leu Arg Gln Arg Val Asp Gly
    50                  55                  60
Ile Arg Gly His Arg Arg Arg Gly Gly Cys Gly Leu Met Pro Pro Ala
65                  70                  75                  80
Asp Gln Val Leu His His Ala Gly Ala Cys Pro Ala Ala Arg Ala Gly
                85                  90                  95
Ala Ala Leu Gln Gln Arg Arg Gly Gly Phe Phe Glu Arg Arg Ala Arg
            100                 105                 110
Val Gln Pro Ala Pro His Leu Ala Ala Ala Ala Tyr Val Ser Glu Pro
        115                 120                 125
Arg Gly Ser Gly Arg Gly Trp Ala Gly Asp Ala Val Pro Gln Leu Gly
    130                 135                 140
Arg Gly Gly His Glu Thr Val His Ala Ser Pro Ser Ser Val Trp Val
145                 150                 155                 160
```

```
Arg Val Lys Arg Glu Arg Val Arg Gly Gly Pro Asp Gln Gln Pro Asp
                165                 170                 175
Gly Leu Cys Gly Phe
            180

<210> 26124
<211> 308
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (261),(272)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26124
Phe Leu Ile Gln Ala Asp Phe Val Thr Asp Ala Ser Arg Gln Asp Ile
1               5                  10                  15
Val Arg Ser Ser Ala Arg Asn Leu Lys Leu Leu Thr Ala Ile Ala Gln
            20                  25                  30
Ala Phe Ile Gln Ala Val Lys Gln Phe Cys Thr His Thr Ser Leu Ala
        35                  40                  45
Tyr Gln Trp Met Arg Tyr Leu Pro Asp Phe Glu Trp Gly Ser Gln Asp
    50                  55                  60
Arg Tyr Trp Lys Ala Leu Pro Gly Glu Ile Arg Arg Gln Leu Gln Leu
65                  70                  75                  80
Thr Asp Thr Met Trp Thr Arg Ser His Leu Asn Met Arg Cys Ile Ala
                85                  90                  95
Asp Val Arg Leu Leu Pro Ser Ser Met Cys Asp Lys Tyr Gly Lys Pro
            100                 105                 110
Leu Leu Pro Asp Leu Asp Thr Glu Gln Tyr Leu Ser Pro His Tyr Ala
        115                 120                 125
Leu Lys Asp Leu Asn Ser Leu Arg Asp Tyr Gly Leu Gln Leu Met Asn
    130                 135                 140
Arg His Glu Phe Val Asp Arg Leu Arg Gln Asp Ile Lys Ser Asp Ser
145                 150                 155                 160
Ser Leu Met Arg Asn Pro Asn Thr Asn Glu Asp Trp His Ser Ala Val
                165                 170                 175
Ala Lys Tyr Leu Met Gly Val Leu Gly Pro Lys Asn Pro Lys Thr Ala
            180                 185                 190
Glu Lys Ile Lys Lys Ile Lys Leu Ile Pro Leu Met Gly Gly His Trp
        195                 200                 205
Arg Ser Ser Ser Ala Leu Asp Ile Phe Pro Val Tyr Phe Thr Arg Ala
    210                 215                 220
Gln Gly His Ala Ile Pro Thr Asp Gly Ile Leu Asp Leu Ile Ala Pro
225                 230                 235                 240
Ser Ala Glu Ile Asn Pro Asp Arg Lys Gln Leu Phe Val Leu Leu Gly
                245                 250                 255
Val Gln Glu Ala Xaa Val Arg Asp Ile Arg Arg Glu Ile Ile Leu Xaa
            260                 265                 270
Ser Ala Ser Trp Ala His Gly Leu Glu Thr Ser Gln Ser Tyr Leu Arg
        275                 280                 285
Ser Phe Ile Leu Leu Leu Asn Trp Ile Glu Ser Thr Asp Ser Pro Val
    290                 295                 300
Pro Ile Arg Phe
305
```

<210> 26125
<211> 311
<212> PRT
<213> A.fumigatus

<400> 26125
Arg Val Cys Arg Ser Thr Ser Leu Ala Lys Asn Leu Tyr Thr Gly Thr
1 5 10 15
Ala Arg Phe Val Phe Glu Leu Leu Gln Asn Ala Asp Asp Asn Ser Tyr
20 25 30
Asn Val Ala Arg Ser Arg Ser Ala Asp Pro Phe Val Ser Phe Arg Val
35 40 45
Asp Asn Arg Arg Ile Ile Val Glu Cys Asn Glu Asp Gly Phe Thr His
50 55 60
Glu Asn Leu Val Ala Ile Cys Asn Val Gly Lys Ser Ser Lys Thr Gly
65 70 75 80
Ala Gln Gly Tyr Ile Gly Glu Lys Gly Ile Gly Phe Lys Ser Val Phe
85 90 95
Met Val Ala Trp Lys Val His Ile Gln Ser Arg Asp Leu Ser Phe Ser
100 105 110
Phe Arg His Asn Val Gly Asp Ser Gly Met Gly Met Ile Ser Pro Ile
115 120 125
Trp Glu Glu Ser Glu Glu Val Leu Pro Arg Pro Leu Thr Arg Ile Thr
130 135 140
Leu Tyr Leu His Glu Thr Gly Ser Ala Ala Asp Leu Ala Thr Gln Arg
145 150 155 160
Glu Thr Thr Leu Gln Gln Phe Arg Glu Leu Lys Ala Ala Phe Leu Leu
165 170 175
Phe Met Lys Asn Leu Arg Arg Ile Glu Val Lys Leu Cys Asp Ser Leu
180 185 190
Asp Lys Glu Ile Ser Arg Thr Thr Phe Ser Met Arg Cys Glu Asp Glu
195 200 205
Gly Arg Val Ala Leu Lys Gln Glu Ile Val Gln Asp Gly Asp Leu Gln
210 215 220
Glu Cys Thr Gln Tyr Tyr His Thr Thr Lys Leu Thr Ala Ser Asn Ile
225 230 235 240
Pro Arg Ser Glu Asn Arg Glu Tyr Thr Asp Val Glu Leu Ala Thr Lys
245 250 255
Ala Tyr Ser Glu Thr Asn Ile Ile Leu Ala Phe Pro Leu Thr Arg Asp
260 265 270
Ser Val Pro Ile Ile Glu Lys His Glu Val Phe Ala Phe Leu Pro Ile
275 280 285
Arg Asn Met Gly Leu Pro Val Ser Ser Pro Ser Cys Thr Gly Met Phe
290 295 300
Ser Asn Leu Val Pro Ser Ser
305 310

<210> 26126
<211> 105
<212> PRT
<213> A.fumigatus

<400> 26126
Ile Leu Phe Leu Thr Val Arg Ala Gln Gly Gly Lys Thr Pro Gln Val
1 5 10 15

```
Thr Ala Ser Pro Leu Ser Ala Thr Asp Ile Thr Arg Asp Asn Met Ala
            20                  25                  30
Ser Gly Met Thr Gln Ser Ser Thr Arg Asn Leu Leu Glu Trp Leu Lys
        35                  40                  45
Asn Ile Cys Leu Glu Arg Asp Asn Tyr Gln Cys Ile Val Thr Lys Leu
    50                  55                  60
Trp Asp Pro Val Ala Val Asn Pro Gln Glu Gln Cys Lys Met Thr Gly
65                  70                  75                  80
Asn Thr Gln Leu Ala His Ile Ile Pro Phe Ser Met Gly His Trp Gly
                85                  90                  95
Asn Asp Gln Lys Val Ser Phe Cys Pro
            100                 105
```

<210> 26127
<211> 100
<212> PRT
<213> A.fumigatus

```
<400> 26127
Ile Val Ile Tyr Leu Leu Asp Gln Asp Thr Asp Asn Thr Tyr Lys Ile
1               5                   10                  15
Lys Thr Tyr Pro Trp His Gln Asn Phe Cys Asp Gln Phe Tyr Glu Lys
            20                  25                  30
Pro Ile Thr Phe Thr Thr His Asn Gly Ser Glu Leu Pro Ser Lys Phe
        35                  40                  45
Leu Leu Glu Thr His Ala Ala Ile Ala Glu Ile Leu His Ala Ser Gly
    50                  55                  60
Gln Gly Glu Lys Ile Asp Glu Leu Leu Arg Glu Trp Glu Asp Ile Gly
65                  70                  75                  80
Cys Leu Ala Ser Asp Gly Ser Thr Asp Leu Glu Ser Leu Leu Leu Leu
                85                  90                  95
Leu Ser Val His
            100
```

<210> 26128
<211> 260
<212> PRT
<213> A.fumigatus

```
<400> 26128
Leu Asn Leu Val Asn Asp Thr Val Ser Phe Leu Ser Lys Gln Ser Thr
1               5                   10                  15
Pro Asp Ser Ser Asp Glu Thr Gln Leu Pro Thr Ile Asp Ser Ile Lys
            20                  25                  30
Pro Arg Ile Arg Glu Glu Arg Gln Ala Glu Ser Lys Ala Val Ser Gln
        35                  40                  45
Pro Asp Ala Gln Pro Thr Gln His Glu Ala Leu Ser Ala Ser Glu Ala
    50                  55                  60
Ala Leu Lys Ser Pro Gln Glu Leu Glu Asp Glu Ala Gly Gln Glu Ala
65                  70                  75                  80
Ala Phe Asn Pro Glu Thr Gly Glu Ile Asn Trp Asp Cys Pro Cys Leu
                85                  90                  95
Gly Gly Met Ala His Gly Pro Cys Gly Glu Glu Phe Lys Ala Ala Phe
            100                 105                 110
Ser Cys Phe Val Tyr Ser Thr Glu Glu Pro Lys Gly Met Asp Cys Ile
        115                 120                 125
```

```
Asp Lys Phe Lys Phe Val Gln Ser Asp Leu Ser Ala Tyr His Ser Glu
    130                 135                 140
Cys Ser His Val Leu Thr Leu Arg Tyr Arg Gly Met Gln Glu Cys Phe
145                 150                 155                 160
Arg Arg Tyr Pro Asp Val Tyr Gly Ala Glu Leu Glu Asp Asp Asp Glu
                165                 170                 175
Ala Asp Ala Ala Ala Ala Thr Ala Ala Gly Val Ser Glu Pro Ser Glu
            180                 185                 190
Gln Pro Ala Ser Pro Thr Val Ser Ala Pro Thr Ala Glu Ile Asp Ala
        195                 200                 205
Ser Ser Asp Ser Glu Gly Lys Glu Gly Arg Ala Lys Asp Val His Ala
    210                 215                 220
Gln Val Lys Ser Glu Val Ala Glu Lys Ala Glu Gln Ala Glu Ser Asp
225                 230                 235                 240
Asp Leu Val Pro Lys Ala Trp His Asp Thr Glu Gly Thr Lys Ala Gln
                245                 250                 255
Gln Thr Glu Lys
            260
```

<210> 26129
<211> 191
<212> PRT
<213> A.fumigatus

<400> 26129

```
His Ala Ser Arg Gly Leu Trp Pro Leu Glu Gly Gln Gln Arg Asp Leu
1                   5                   10                  15
Arg Arg Pro Asp Leu Pro Cys His Gln Gly Trp Leu Pro Ser Leu Arg
            20                  25                  30
Arg Arg Leu Arg Ser Val Ala Pro His Ile Leu Ser Pro Ala Lys Arg
        35                  40                  45
Gln Ser Asp Arg Val Leu Thr Ile Ala Asp Tyr Gly Asn Glu Val Glu
    50                  55                  60
Ala Gly Lys Gly Val Ala Arg Ala Ile Gln Glu Gly Ile Val Lys Arg
65                  70                  75                  80
Glu Glu Leu Phe Ile Val Ser Lys Leu Trp Asn Ser Phe His Asp Gly
                85                  90                  95
Asp Arg Val Glu Pro Ile Cys Arg Lys Gln Leu Ala Asp Trp Gly Leu
            100                 105                 110
Asp Tyr Phe Asp Leu Phe Ile Val His Phe Pro Ile Ala Leu Lys Tyr
        115                 120                 125
Val Asp Pro Ala Val Arg Tyr Pro Pro Gly Trp Leu Ser Glu Asn Asn
    130                 135                 140
Lys Leu Glu Phe Ser Asn Ala Ser Ile Gln Glu Thr Trp Thr Ala Met
145                 150                 155                 160
Glu Ser Leu Val Asp Lys Lys Leu Ala Arg Ser Ile Gly Val Ser Asn
                165                 170                 175
Phe Ser Ala Gln Leu Leu Met Asp Leu Leu Arg Tyr Ala Arg Ile
            180                 185                 190
```

<210> 26130
<211> 71
<212> PRT
<213> A.fumigatus

<400> 26130

```
Glu Ser Pro Tyr Pro Ser Gln Asp Gln Asn Arg Phe Lys Ser Ala Glu
1               5                  10                  15
Phe Thr Val Phe Thr Met Thr Thr Pro Ser Ile Lys Leu Asn Ser Gly
            20                  25                  30
Tyr Asp Met Pro Leu Val Gly Phe Gly Leu Trp Lys Val Asn Lys Glu
        35                  40                  45
Thr Cys Ala Asp Gln Ile Tyr His Ala Ile Lys Ala Gly Tyr Arg Leu
    50                  55                  60
Phe Asp Gly Ala Cys Gly Gln
65                  70
```

<210> 26131
<211> 126
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (102)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26131

```
Ala Pro Phe Asn Lys Pro Gly Val Gly Val Gln Asp Ser Ser Asn Val
1               5                  10                  15
Leu Asn Gln Phe Phe Gly Ser Trp Phe Ala Thr Leu Gly Gly Ile Arg
            20                  25                  30
Lys Tyr Pro Arg Ala Asn Gly Pro Phe Gly Phe Arg Ser Thr Thr Ile
        35                  40                  45
Pro Arg Glu Val Gly Pro Asn Gln Asn Thr Leu Phe Arg Tyr His His
    50                  55                  60
His Asp His Gln Thr Ser Ala Ser Arg Glu Ser His Pro Pro Thr Gly
65                  70                  75                  80
Phe Glu Gly Leu Met Asp Pro Asp Asp Leu Met Asn Lys Ile Val Gly
                85                  90                  95
Ser Met Pro Asp Asp Xaa Gly Met Asn Gly Ala Gly Pro Asp His Ala
            100                 105                 110
Ser Ala Ala Tyr Ala Asp Thr Asn Ala Thr Glu Ala Gly Gln
        115                 120                 125
```

<210> 26132
<211> 177
<212> PRT
<213> A.fumigatus

<400> 26132

```
Arg Ser Arg Phe Val Leu Ser Asn Met Pro Ser Arg Gln Glu Val Ala
1               5                  10                  15
Tyr Phe Gly Ala Gly Pro Ala Pro Leu Pro Thr Ser Val Val Glu Ala
            20                  25                  30
Gly Ala Lys Ala Phe Val Asn Tyr Asn Asp Cys Gly Leu Gly Leu Gly
        35                  40                  45
Glu Ile Ser His Arg Ser Pro Thr Ala Asn Lys Ile Leu Glu Asp Thr
    50                  55                  60
Lys Ala Ser Leu Thr Thr Leu Leu Asp Ile Pro Asp Asp Tyr Glu Ile
65                  70                  75                  80
Leu Phe Met Gln Gly Gly Gly Ser Gly Gln Phe Thr Ser Val Val Gln
```

```
                85                  90                  95
Asn Leu Val Gly Val Trp Val Glu Arg Arg Thr Thr Glu Ile Pro Glu
            100                 105                 110
Ala Arg Glu Phe Ser Ala Tyr Arg Lys Ile Lys Asp Glu Leu Gly Ser
        115                 120                 125
Phe Ala Glu Tyr His Gln Asn Gly Arg Phe Arg Glu Gly Asn Leu Asn
    130                 135                 140
Leu Gly Ile Thr Phe Phe Pro Arg Gly Ser Ile Gly Pro Phe Glu Lys
145                 150                 155                 160
Gly Ser Phe Gln Gly Gly Leu His Pro Ser Trp Arg Gly Val Ala Thr
                165                 170                 175
Asn
```

<210> 26133
<211> 230
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (219),(228)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26133

```
Leu Gly Pro Ile Leu Met Pro Tyr Ile Thr Arg Leu Leu Tyr Ser Met
1               5                   10                  15
Ala Ser Ser Thr Thr Leu Ala Arg Gly Tyr Lys His Leu Ser Leu Ala
            20                  25                  30
Val His Ile Thr Asp Ser Gln Trp Arg Ser Cys Phe Ser Gly Lys Pro
        35                  40                  45
Ser Ser Gln Ser Thr Trp Ser Lys Ser Ile Ser Ser Arg Leu Arg Gln
    50                  55                  60
Ser Ile Arg Gln Arg Tyr Gly Ala Leu Thr His Ser Arg Ile Arg His
65                  70                  75                  80
Arg Leu Lys His Pro Arg Gln Ser Tyr Asp Leu Phe Leu His Asn Cys
                85                  90                  95
Asn Asn Phe Thr Gln Asp Leu Ala Met Phe Leu Val Gly Lys Ser Ile
            100                 105                 110
Pro Glu His Ile Gln Asn Leu Pro Gln Lys Phe Leu Ser Thr Pro Phe
        115                 120                 125
Gly Gln Met Met Lys Pro Gln Ile Glu Gln Ala Leu Arg Gly Val Thr
    130                 135                 140
Gln Thr Ala Ala Pro Ala Pro Gln Pro Leu Pro Arg Ala Pro Val Thr
145                 150                 155                 160
Thr Ala Ala Pro Thr His Pro Gly Thr Val Arg Gln Val Ser Asn Val
                165                 170                 175
Asn Gln Leu Glu Glu Leu Leu Glu Ser Ala Val Lys Ser Cys Ala Val
            180                 185                 190
Met Phe Phe Thr Ser Ala Thr Cys Pro Pro Cys Lys Lys Val Tyr Pro
        195                 200                 205
Thr Tyr Gly Gln Glu Pro Glu Glu Ser Asp Xaa Thr Glu Arg Gln Ala
    210                 215                 220
Arg Ala Ser Xaa Lys Arg
225                 230
```

<210> 26134
<211> 113
<212> PRT
<213> A.fumigatus

<400> 26134
Cys Thr Ser Asp Thr Pro Lys Gln Ala Gln Asn Arg Leu Arg Ser Ile
1 5 10 15
Met Glu Gly Thr Glu Phe Ala Glu Arg Leu Ser Pro Ile Phe Ala Arg
20 25 30
Ile Asn Ile Leu Val Thr Tyr Leu Gln Gly Phe Asp Val Lys Arg Lys
35 40 45
Val Tyr Val Asn Pro Leu Gly Ser Leu Asn Asp Lys Phe Leu Arg Gly
50 55 60
Ser Ile Leu Phe Gln Cys Val Phe Asp Thr Lys Arg Arg Asp Val Phe
65 70 75 80
Ala Ala Ala Gly Arg Tyr Asp Arg Leu Val Gln Asp Phe Pro Ser Glu
85 90 95
Gly Pro Ala Ser Cys Phe Lys His Lys Gln Leu Ala Leu Asn Leu Thr
100 105 110
Gly

<210> 26135
<211> 396
<212> PRT
<213> A.fumigatus

<400> 26135
Arg Asn Asp Cys Arg Ala Phe Trp Pro Leu Trp Arg Arg His Leu Trp
1 5 10 15
Tyr Met Tyr Ser Leu Gly Ile Ile Phe Phe Glu Met Cys His Pro Leu
20 25 30
Pro Thr Gly Met Glu Arg Asp Gln Thr Leu Arg Ala Ile Arg Glu Glu
35 40 45
His His Thr Leu Pro Pro Thr Phe His Tyr Ser Glu Lys Ala Val Gln
50 55 60
Gly Asn Ile Ile Glu Ser Leu Leu Ser His Asp Pro Lys Glu Arg Pro
65 70 75 80
Ser Ala Ser Glu Leu Leu Gln Ser Gly Lys Ile Pro Leu Gln Val Glu
85 90 95
Glu Glu Thr Phe Arg Arg Ala Ile Val His Leu Leu Ser Asp Pro Asn
100 105 110
Ala Pro Asp Tyr Lys Lys Ile Leu Ser Ala Ile Phe Ser Gln Ser Pro
115 120 125
Lys Lys Tyr Glu Asp Ile Ala Trp Asp Val Asp Ser Arg Ala Ala Pro
130 135 140
Ala Ala Asn Glu Leu Leu Val Gln Ser Leu Val Lys Glu Arg Leu Thr
145 150 155 160
Ala Ile Phe Arg Arg His Gly Ala Val Glu Thr Thr Arg Gln Met Leu
165 170 175
Phe Pro Arg Ser Gln His Tyr Arg Ser Gly Ala Val Arg Leu Leu Asp
180 185 190
Ala Ser Gly Asn Gln Leu Gln Leu Pro Phe Asp Leu Thr Leu Pro Asn
195 200 205
Ala Arg Ser Ile Ser Arg Gln Asp Pro Ser Leu Glu Lys Thr Phe Ala

```
    210                 215                 220
Phe Gly Thr Val Tyr Arg Glu Met Pro His Gly Ser Glu Pro Arg Thr
225                 230                 235                 240
His Lys Glu Val Asp Phe Asp Ile Val Ser His Asn Thr Leu Asp Leu
                245                 250                 255
Ala Leu Lys Glu Ala Glu Val Ile Lys Val Leu Asp Glu Ile Ile Glu
            260                 265                 270
Glu Phe Pro Pro Leu Arg Ser Ser Pro Met Ser Phe Leu Ile Asn His
        275                 280                 285
Ser Asp Leu Leu Gln Leu Ile Met Glu Phe Cys Arg Ile Thr Pro Ser
    290                 295                 300
Gln Val Pro Leu Val Lys Glu Ile Ile Ser Lys Leu Asn Phe Gly Lys
305                 310                 315                 320
Trp Thr Met Gln Lys Ile Arg Ser Glu Leu Arg Ser Pro Ala Ile Gly
                325                 330                 335
Val Ala Ser Thr Ser Leu Asp Asp Leu Ala Arg Phe Asp Phe Arg Gly
            340                 345                 350
Ser Phe His Phe Ala Thr Tyr Glu Thr Ala Ala Asn Ala His Gln Thr
        355                 360                 365
Leu Leu Ser Arg Leu Lys Thr Val Ser Gly Pro Ser Trp Lys Val Pro
    370                 375                 380
Ser Leu Pro Ser Asp Cys Arg Pro Phe Ser Leu Ala
385                 390                 395

<210> 26136
<211> 70
<212> PRT
<213> A.fumigatus

<400> 26136
Gly Arg Asn Tyr Pro Ile Pro Cys Leu Ala Phe Ser Cys Leu Thr Ser
1               5                   10                  15
Ala Gly Phe Trp Val Thr Pro Ser Thr Gly Ile Thr Cys Arg Arg Val
            20                  25                  30
Val Leu Gln His Thr Ile Ala Trp Phe Val Gln Leu Ala Asn Ile Lys
        35                  40                  45
Ile Asn Gly Arg Trp Trp Asn Ser Val Thr Ser Val Ser Leu Ala Ala
    50                  55                  60
Ser Asp Glu Lys Ala Gly
65                  70

<210> 26137
<211> 60
<212> PRT
<213> A.fumigatus

<400> 26137
Glu Asp Asn Lys Gly Trp Asn Lys Val Ala Ile Tyr Thr Asn Tyr Phe
1               5                   10                  15
His Asn Ser Tyr Ile Leu Leu Ile Ser Ile Thr Arg Arg Glu Arg Arg
            20                  25                  30
Leu Leu Lys Leu Ser Ser Asn Tyr Leu Leu Ile Phe Ile Asn Ser Asn
        35                  40                  45
Leu Glu Ala Cys Leu Ile Lys Val Ile Glu Val Leu
    50                  55                  60
```

<210> 26138
<211> 154
<212> PRT
<213> A.fumigatus

<400> 26138
Phe Ala Ala Arg Phe Leu Leu Ala Pro Gly Cys Arg Gln Glu Val Lys
1 5 10 15
Glu Thr Ile Gly Val Thr Val Pro Leu Ser Thr Phe Leu Ala Arg Ala
20 25 30
Thr Asp Leu Ala Asn Glu Asp Leu Pro Arg Ser Pro Arg Ser Lys Pro
35 40 45
Ser Ala Asp Glu Leu Phe Asp Glu Ile Leu Gly Ala Glu Pro Ile Lys
50 55 60
Thr Ser Pro Gly Asp Tyr Val Pro Glu Leu Asn Ala Leu Glu Ala Val
65 70 75 80
Glu Tyr Glu Ser Ala Gln Pro Val Lys Glu Asp Ile Ile Asp Ile Leu
85 90 95
Ser Gly Lys Val Pro Lys Lys Ala Pro Arg Lys Ala Ser Met Glu Glu
100 105 110
Tyr Pro Ala Gly Ser Ala Thr Asn Val Phe Ser Leu Thr Val Pro Val
115 120 125
Gly Asp Glu Thr Arg Ala Arg Val Phe Leu Asp Arg Val Lys Thr Leu
130 135 140
Leu Thr Val Glu Pro Gly Arg Leu Val Leu
145 150

<210> 26139
<211> 416
<212> PRT
<213> A.fumigatus

<400> 26139
Phe Ala Asn Arg Gly Ser Phe His Gly Gly Phe Val Lys Thr Ala Asp
1 5 10 15
Gln Ile Gly Asp Leu Glu Ser Arg Cys Ala Ala Leu Gln Ser Glu Leu
20 25 30
Asp Ser Ala Thr Pro Thr Ser Leu Leu Arg Lys Asn Gln Asp Pro Thr
35 40 45
Ser Trp Leu Pro Arg Ser Pro Ala Arg His Ile Leu Glu Gly His Arg
50 55 60
Asn Pro Val Thr Cys Val Ala Phe His Pro Val Phe Ser Ser Leu Ala
65 70 75 80
Ser Gly Ser Asp Asp Thr Thr Ile Lys Ile Trp Asp Trp Glu Leu Gly
85 90 95
Glu Leu Glu Arg Thr Val Lys Gly His Thr Lys Ala Val Leu Asp Val
100 105 110
Asp Tyr Gly Gly Pro Arg Gly Gly Thr Leu Leu Ala Ser Cys Ser Ser
115 120 125
Asp Leu Thr Ile Lys Leu Trp Asp Pro Ser Asp Asn Tyr Lys Asn Ile
130 135 140
Arg Thr Leu Pro Gly His Asp His Ser Val Ser Ser Val Arg Phe Ile
145 150 155 160
Pro Ser Gly Ala Ala Gly Ser Pro Met Ser Gly Asn Leu Leu Val Ser
165 170 175
Ala Ser Arg Asp Lys Thr Leu Arg Ile Trp Asp Val Thr Thr Gly Tyr

```
            180                 185                 190
Cys Val Lys Thr Leu Ser Gly His Val Asp Trp Val Arg Ala Val Ala
        195                 200                 205
Pro Ser Ile Asp Gly Arg Phe Leu Leu Ala Ala Gly Asp Asp Arg Ile
    210                 215                 220
Pro Arg Leu Trp Asp Leu Ser Ser Ala Glu Thr Lys Ser Thr Phe Leu
225                 230                 235                 240
Gly His Glu His Val Ile Glu Cys Val Ala Ile Ala Pro Ala Ala Ser
                245                 250                 255
Tyr Pro His Leu Ala Val Leu Ser Gly Leu Lys Lys Pro Pro Pro Ala
            260                 265                 270
Ser Ser Ser Ala Glu Phe Phe Ala Thr Gly Ser Arg Asp Lys Thr Ile
        275                 280                 285
Arg Leu Trp Asp Ser Arg Gly Asn Leu Ile Lys Thr Leu Val Gly His
    290                 295                 300
Asp Asn Trp Val Arg Ala Leu Ala Phe His Pro Gly Gly Lys His Leu
305                 310                 315                 320
Leu Ser Val Ala Asp Asp Lys Thr Ile Arg Cys Trp Asp Leu Thr Gln
                325                 330                 335
Glu Cys Lys Cys Val Arg Val Ile Ser Asp Ala His Gly His Phe Val
            340                 345                 350
Thr Cys Leu Arg Trp Ala Pro Pro Leu Ile Lys Asp Gly Gly Ala Asn
        355                 360                 365
Gly Glu Ala Glu Thr Asn Gly Thr Pro Ala Ala Thr Ser Thr Thr Asn
    370                 375                 380
Gly Val Arg Pro Asp Pro Asn Val Ala Thr Lys Ile Ser Ile Arg Cys
385                 390                 395                 400
Val Ile Ala Thr Gly Ser Val Asp Gln Lys Val Arg Ile Phe Ala Thr
                405                 410                 415
```

<210> 26140
<211> 141
<212> PRT
<213> A.fumigatus

<400> 26140

```
Leu His Asn Phe Leu Ser Cys Ile Ser Met Leu Leu Lys Pro Arg Met
1               5                   10                  15
Pro Val Leu Pro Pro Leu Pro Ser Leu Thr Thr Ile Leu Leu Cys Val
            20                  25                  30
Thr Ser Cys Leu Tyr Ser Leu Ala Cys Arg Ala Glu Lys Arg His Leu
        35                  40                  45
Met Thr Arg Ser Cys Leu Ser Gly Arg Ser Phe Ser Thr Ser Phe Phe
    50                  55                  60
Arg Arg Leu Ser Arg Lys Gly Arg Arg Thr Leu Cys Lys Arg Arg Met
65                  70                  75                  80
Thr Ser Ser Cys Ser Ser Ser Glu Ser Ser Met Arg Ser Trp Pro Pro
                85                  90                  95
Val Phe Ala Asn Gly Val Leu Asn His Ser Ser Asn Asp Leu Thr Asp
            100                 105                 110
Leu Lys Met Phe Gly Lys Thr Lys Leu Ser Ser Ala His Asn Ser Gly
        115                 120                 125
Arg Leu Phe Cys Lys Gly Val Pro Val Lys Ile Arg Arg
    130                 135                 140
```

<210> 26141

<211> 500
<212> PRT
<213> A.fumigatus

<400> 26141

```
Phe Arg Ser Thr Thr Asn Asn Leu Asn Gly Ile Leu Ala Asp Glu Met
1               5                  10                  15
Gly Leu Gly Lys Thr Ile Gln Thr Ile Ser Leu Ile Thr Tyr Ile Ile
            20                  25                  30
Glu Lys Lys Lys Asn Asn Gly Pro Phe Leu Val Ile Val Pro Leu Ser
        35                  40                  45
Thr Leu Thr Asn Trp Asn Leu Glu Phe Glu Lys Trp Ala Pro Ser Val
    50                  55                  60
Ser Arg Val Val Tyr Lys Gly Pro Pro Asn Ala Arg Lys Gln Gln Gln
65                  70                  75                  80
Gln Gln Ile Arg Trp Gly Asn Phe Gln Val Leu Leu Thr Thr Tyr Glu
                85                  90                  95
Tyr Ile Ile Lys Asp Arg Pro Ile Leu Ser Lys Ile Lys Trp Thr His
            100                 105                 110
Met Ile Val Asp Glu Gly His Arg Met Lys Asn Thr Gln Ser Lys Leu
        115                 120                 125
Ser Ser Thr Leu Ser Gln Tyr Tyr Thr Ser Arg Tyr Arg Leu Ile Leu
    130                 135                 140
Thr Gly Thr Pro Leu Gln Asn Asn Leu Pro Glu Leu Trp Ala Leu Leu
145                 150                 155                 160
Asn Phe Val Leu Pro Asn Ile Phe Lys Ser Val Lys Ser Phe Asp Glu
                165                 170                 175
Trp Phe Asn Thr Pro Phe Ala Asn Thr Gly Gly Gln Asp Arg Met Glu
            180                 185                 190
Leu Ser Glu Glu Glu Gln Leu Leu Val Ile Arg Arg Leu His Lys Val
        195                 200                 205
Leu Arg Pro Phe Leu Leu Arg Arg Leu Lys Lys Asp Val Glu Lys Asp
    210                 215                 220
Leu Pro Asp Lys Gln Glu Arg Val Ile Lys Cys Arg Phe Ser Ala Leu
225                 230                 235                 240
Gln Ala Arg Leu Tyr Lys Gln Leu Val Thr His Asn Lys Met Val Val
                245                 250                 255
Ser Asp Gly Lys Gly Gly Lys Thr Gly Met Arg Gly Leu Ser Asn Met
            260                 265                 270
Leu Met Gln Leu Arg Lys Leu Cys Asn His Pro Phe Val Phe Glu Pro
        275                 280                 285
Val Glu Asp Gln Met Asn Pro Gly Arg Gly Thr Asn Asp Leu Ile Trp
    290                 295                 300
Arg Thr Ala Gly Lys Phe Glu Leu Leu Asp Arg Ile Leu Pro Lys Phe
305                 310                 315                 320
Arg Ala Thr Gly His Arg Val Leu Met Phe Phe Gln Met Thr Gln Ile
                325                 330                 335
Met Asn Ile Met Glu Asp Phe Leu Arg Leu Arg Gly Met Lys Tyr Leu
            340                 345                 350
Arg Leu Asp Gly Ser Thr Lys Ser Asp Asp Arg Ser Asp Leu Leu Lys
        355                 360                 365
Leu Phe Asn Ala Pro Gly Ser Glu Tyr Phe Cys Phe Leu Leu Ser Thr
    370                 375                 380
Arg Ala Gly Gly Leu Gly Leu Asn Leu Gln Thr Ala Asp Thr Val Ile
385                 390                 395                 400
Ile Phe Asp Ser Asp Trp Asn Pro His Gln Asp Leu Gln Ala Gln Asp
```

```
                405                 410                 415
Arg Ala His Arg Ile Gly Gln Lys Asn Glu Val Arg Ile Leu Arg Leu
            420                 425                 430
Ile Ser Ser Asn Ser Val Glu Glu Lys Ile Leu Glu Arg Ala Gln Phe
        435                 440                 445
Lys Leu Asp Met Asp Gly Lys Val Ile Gln Ala Gly Lys Phe Asp Asn
    450                 455                 460
Lys Ser Thr Asn Glu Glu Arg Asp Ala Leu Leu Arg Thr Leu Leu Glu
465                 470                 475                 480
Ser Ala Glu Ala Ala Asp Gln Leu Gly Glu Gln Asp Glu Met Ala Asp
                485                 490                 495
Asp Asp Arg Leu
            500
```

<210> 26142
<211> 299
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (225)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26142

```
Val Arg Ser Ala Val Pro Ala Ser Leu Val Ala Lys Thr Pro Ser Gly
1               5                   10                  15
Asp Asp Ser Leu Lys Leu Lys Ala Leu Ile Glu Tyr Lys Met Leu His
            20                  25                  30
Leu Leu Pro Lys Gln Arg Leu Phe Arg Lys Gln Ile Gln Asn Glu Met
        35                  40                  45
Phe His Phe Asp Asn Leu Gly Met Thr Ala Asn Arg Ser Ser His Arg
    50                  55                  60
Arg Met Lys Lys Gln Ser Leu Arg Glu Ala Arg Ile Thr Glu Lys Leu
65                  70                  75                  80
Glu Lys Gln Gln Arg Asp Ala Arg Glu Thr Arg Glu Lys Lys Lys Gln
                85                  90                  95
Tyr Asp Gln Leu Gln Ala Ile Leu Asn His Gly Ala Glu Leu Gln Asn
            100                 105                 110
Ala Ala Asn Gln Gln Arg Thr Arg Met Gln Lys Leu Gly Arg Met Met
        115                 120                 125
Leu Gln His His Gln His Met Glu Arg Glu Glu Gln Lys Arg Val Glu
    130                 135                 140
Arg Thr Ala Lys Gln Arg Leu Gln Ala Leu Lys Ala Asn Asp Glu Glu
145                 150                 155                 160
Thr Tyr Met Lys Leu Leu Gly Gln Ala Lys Asp Ser Arg Ile Ser His
                165                 170                 175
Leu Leu Lys Gln Thr Asp Gly Phe Leu Lys Gln Leu Ala Ala Ser Val
            180                 185                 190
Lys Glu Gln Gln Arg Ser Gln Ala Glu Arg Tyr Gly Glu Asp Glu His
        195                 200                 205
Leu Phe Glu Asp Asp Asp Glu Glu Asp Val Gly Ser Asp Asp Asp Glu
    210                 215                 220
Xaa Gly Gly Arg Arg Lys Ile Asp Tyr Tyr Ala Val Ala His Arg Ile
225                 230                 235                 240
Lys Glu Glu Val Thr Glu Gln Pro Lys Ile Leu Val Gly Gly Tyr Leu
```

```
                245                 250                 255
Lys Glu Tyr Gln Met Lys Gly Leu Gln Trp Met Ile Ser Leu Tyr Asn
            260                 265                 270
Lys Gln Pro Glu Trp Tyr Phe Gly Arg Arg Asp Gly Ser Trp Lys Asp
        275                 280                 285
Tyr Ser Asn His Gln Phe Asp His Ile His Tyr
    290                 295
```

<210> 26143
<211> 78
<212> PRT
<213> A.fumigatus

<400> 26143

```
Ile Leu Val His Leu Pro Ser Phe Phe Phe Leu Phe Pro Leu Ala Asp
1               5                   10                  15
Met Asn Ser Phe His Lys His Val Ser Phe Asp Ala Tyr Leu Leu Pro
            20                  25                  30
Leu Leu Ile Phe Val Ala Arg Arg Ser Leu Ser Leu Gly Cys Ser Leu
        35                  40                  45
Arg Ile Leu His Ala Leu Ser Asn Gln Ser Arg Asn Cys Ile Phe Arg
    50                  55                  60
Pro His Ile Lys Asn Phe His Phe Leu Ile Lys Val Thr Leu
65                  70                  75
```

<210> 26144
<211> 228
<212> PRT
<213> A.fumigatus

<400> 26144

```
Ser Lys Pro Thr Val Leu Leu Gly Ala Leu Glu Phe Tyr Phe Pro Ser
1               5                   10                  15
Pro Phe Phe Tyr Phe Phe Ser Ser Asn Thr Met Ser Leu Asn His Thr
            20                  25                  30
Ser Leu Asp Ala Ala Ala Thr Glu Arg Lys Ala Arg Leu Ala Lys Leu
        35                  40                  45
Ala Ala Leu Lys Arg Lys Gln Pro Glu Pro Glu Thr Leu Thr Glu Ala
    50                  55                  60
Arg Ala Gly Asp His Glu Pro Glu Asp Ala Ala Pro Asp Val Thr Arg
65                  70                  75                  80
Lys Tyr Leu Ser Gly Arg Asn Phe Asp Ala Glu Thr Arg Gly Pro Lys
                85                  90                  95
Leu Gly Phe Asp Gln Ala Pro Thr Glu Gly Ala Lys Thr Leu Glu Ala
            100                 105                 110
Gln Ala Ala Glu Ile Ala Lys Ala Thr Ala Glu Gln Ala Lys Lys Asp
        115                 120                 125
Glu Glu Lys Asp Gln Pro Ile Asp Leu Phe Lys Leu Gln Pro Lys Lys
    130                 135                 140
Pro Asn Trp Asp Leu Lys Arg Asp Leu Asp Glu Lys Met Lys Ile Leu
145                 150                 155                 160
Asn Val Arg Thr Glu Asn Ala Ile Ala Arg Leu Val Arg Gln Arg Met
                165                 170                 175
Glu Asn Ala Gln Arg Ala Ala Lys Ala Gln Gly Ala Thr Arg Asn Glu
            180                 185                 190
Asp Glu Gln Gly Glu Glu Val Gly Ile Glu Gly Asp Met Leu Val Glu
```

```
        195                 200                 205
Gly Ile His Val Arg Glu Arg Glu Glu Lys Glu Glu Arg Arg Glu Met
    210                 215                 220
Asp Glu Asp Ser
225
```

<210> 26145
<211> 132
<212> PRT
<213> A.fumigatus

<400> 26145

```
Glu Ser Ser Ile Ile Thr Asn Thr Glu Pro Val Gln Ile Ser Thr Leu
1               5                   10                  15
Glu Pro Leu Phe Leu Pro Phe Ala Ile Tyr Phe Phe Val Leu Phe Leu
            20                  25                  30
Pro Pro Pro Arg Ser Ile Pro Asp Phe Glu Leu Ala Glu Tyr Leu Pro
        35                  40                  45
Phe Arg Pro Leu Phe Phe Asp Arg Leu Phe Phe Phe Pro Arg Val Leu
    50                  55                  60
Thr Ile Asn Arg Gln Thr Val Leu Leu Arg Leu Ser Ser Asp Phe Leu
65                  70                  75                  80
Phe Ser Ala Ile Leu Ser Trp Pro Asp Cys Arg Cys Cys Val Leu Thr
                85                  90                  95
Thr Ser Lys Val Leu Pro Pro Tyr Leu Gly Ser Ile Thr Ser Ala Ile
            100                 105                 110
Asp Ala Val Ala Arg Gln Phe Asn Leu Cys Phe Gln Asn Gly Ala His
        115                 120                 125
Lys Ser Cys Gln
    130
```

<210> 26146
<211> 120
<212> PRT
<213> A.fumigatus

<400> 26146

```
Val Ser Thr Pro Pro Ala Thr Pro Lys Thr Ile Asp Cys Leu Leu Cys
1               5                   10                  15
Trp Leu Tyr Val Leu Leu Thr Trp Tyr Pro Phe Lys Ile Val Ile Gly
            20                  25                  30
Ser Gly Pro Ala Ala His Thr Ala Ala Ile Tyr Leu Ser Arg Ala Glu
        35                  40                  45
Leu Lys Pro Val Leu Tyr Glu Gly Met Leu Ala Asn Gly Thr Ala Ala
    50                  55                  60
Gly Gly Gln Leu Thr Thr Thr Thr Asp Ile Glu Asn Phe Pro Gly Phe
65                  70                  75                  80
Pro Asp Gly Ile Gly Gly Ala Glu Leu Met Glu Asn Met Arg Lys Gln
                85                  90                  95
Ser Ile Arg Phe Gly Thr Glu Val Ile Thr Glu Thr Ser Leu Gln Pro
            100                 105                 110
Gln Gly Val Glu Gly Pro Ala Ile
        115                 120
```

<210> 26147
<211> 128

<212> PRT
<213> A.fumigatus

<400> 26147
Leu Val Pro Cys Ile Lys Ile Ala Met Ser Ser Val Ser Pro Leu Ala
1 5 10 15
Gly Arg Leu Cys Gln Ile Phe Thr Ala Arg Asn Tyr Thr Leu Phe Ser
20 25 30
Val Gly Ile Leu Ser Val Gly Leu Phe Val Thr Ala Ala Ser Gln Ser
35 40 45
Leu Pro Val Phe Leu Phe Gly Arg Ala Leu Ser Gly Cys Gly Ser Ala
50 55 60
Gly Val Met Val Thr Ser Phe Ile Phe Ile Leu Asp Leu Ala Ser Lys
65 70 75 80
Arg Arg Arg Gly Leu Phe Ile Gly Leu Leu Asn Val Gly Val Thr Thr
85 90 95
Gly Ile Ser Cys Gly Ala Leu Leu Ala Gly Leu Leu Thr Pro Val Phe
100 105 110
Gly Trp Val Cys His Leu Pro Leu Arg Ser Ser Glu Thr Ile Arg Ser
115 120 125

<210> 26148
<211> 162
<212> PRT
<213> A.fumigatus

<400> 26148
Arg Phe Gly Gly Glu Lys Ile Thr Asp Met Leu Ile Ala Ile Leu Asn
1 5 10 15
Thr Cys Ser Lys Glu Glu Leu Glu Asp Glu Thr Pro Thr Ser Val Ser
20 25 30
Pro Ser Ala Pro Ser Pro Pro Leu Pro Met Asp Val Glu Ser Ser Glu
35 40 45
Phe Lys Arg Arg Ala Ile Lys Asn Lys Ile Leu Ala Ile Gly Arg Leu
50 55 60
Ser Arg Val Phe Gln Val Leu Arg Glu Glu Ser Glu Arg Val Thr Glu
65 70 75 80
Leu Lys Thr Ala Ala Gly Gly Arg Leu Pro Ala Gly Thr Leu Met Leu
85 90 95
Gly Ala Glu Gly Ile Lys Gln Ala Ile Thr Asn Phe Glu Asp Ala Arg
100 105 110
Lys Val Asp Leu Gln Asn Glu Arg Leu Pro Pro Ser His Glu Glu Val
115 120 125
Ile Lys Arg Ser Glu Glu Glu Arg Arg Ala Ala Leu Glu Arg Ala Gln
130 135 140
Gln Glu Ala Asp Asn Asp Thr Gly Leu Ala Thr Val Ala Arg Arg Ile
145 150 155 160
Ser Met

<210> 26149
<211> 90
<212> PRT
<213> A.fumigatus

<400> 26149

```
Gly Pro Asp Val Arg Ser Ser Thr Ser Ser Thr Leu Ile Glu His Ala
1               5                  10                  15
Ser Ala Leu Phe Ser Asn Phe Asn Gln Arg Leu Ser Ala Leu Tyr Phe
            20                  25                  30
Tyr His Ala Met Tyr Gly Pro Ile Glu Gln Ser Ser Leu Glu Ser Gly
        35                  40                  45
Arg Ser Gln Leu Gly Tyr Leu Pro Asn Leu Phe Arg Pro Ala His Ser
    50                  55                  60
His Arg Leu Glu Gln Ser Pro Leu Leu Asn Pro Ala Arg Phe Arg His
65                  70                  75                  80
Lys Val Leu Tyr Ser Phe Phe Phe Glu Ala
                85                  90
```

<210> 26150
<211> 346
<212> PRT
<213> A.fumigatus

<400> 26150

```
Ser Arg Leu Phe Leu Pro Arg Asn Gly Arg Asn Phe Ser Asp Pro Ser
1               5                  10                  15
Val Val Ser Lys Leu Val Leu Ile Val Ser Gln Pro Arg Leu Asp Ala
            20                  25                  30
Gln Pro Pro Leu Asp Glu Ala Val Lys Lys Ile Arg Val Lys Asn Pro
        35                  40                  45
Ile Met Gln Glu Phe His Gly Ser His Gly Thr Tyr Thr Gln Ala Asn
    50                  55                  60
Ile Glu Arg Gln Arg Thr Tyr Asn Leu Pro Gln Trp Lys Ala Leu Cys
65                  70                  75                  80
Glu Glu Ser Ser His Gln Pro Pro Ala Arg Arg Gly Glu Arg Arg Arg
                85                  90                  95
Asn Gln Glu Arg Val Thr Arg Thr Pro Ala Ala Pro Lys Pro Gln Thr
            100                 105                 110
Thr Thr Ser Asn Ser Gln Lys Arg Gly Pro Gly Arg Pro Pro Lys Arg
        115                 120                 125
Ala Asn Gln Val Lys Val Lys Glu Glu Pro Pro Ala Asp Asp Val Leu
    130                 135                 140
Glu Lys Thr Lys Pro Glu Gly Pro Pro Thr Pro Val Ser Pro Glu Ser
145                 150                 155                 160
Asn Pro Val Glu Thr Lys Ser Glu Glu Leu Ser Asp Gly Glu Ser Leu
                165                 170                 175
Pro Gly Leu Lys Pro Lys Gly Arg Gln Pro Lys Ser Val Thr Ala Arg
            180                 185                 190
Arg Lys His Asn Lys Gly Asp Asn Ile Asp Ser Val Asp Glu Glu Ala
        195                 200                 205
Phe Lys Asn Phe Asp Tyr Arg Ile His Asp Gln Glu Glu Tyr Thr Gln
    210                 215                 220
Glu Arg Cys Glu Glu Leu Glu Thr Ala Tyr Trp Lys Ser Leu Met Phe
225                 230                 235                 240
Asn Asn Pro Leu Tyr Gly Ala Asp Met Pro Gly Ser Leu Phe Asp Asp
                245                 250                 255
Ser Thr Thr Ser Trp Asn Val Ala Lys Leu Pro Asn Leu Leu Asp Val
            260                 265                 270
Ile Gly Gln Lys Val Pro Gly Val Asn Thr Ala Tyr Leu Tyr Leu Gly
        275                 280                 285
Met Trp Lys Ala Thr Phe Ala Trp His Leu Glu Asp Val Asp Leu Tyr
```

```
    290                 295                 300
Ser Ile Asn Tyr Ile His Phe Gly Ala Pro Lys Gln Trp Tyr Ser Ile
305                 310                 315                 320
Ser Gln Glu Asp Ala Pro Arg Phe Glu Gln Val Met Lys Ser Lys Leu
                325                 330                 335
Ala Pro Leu Gln Pro Tyr Ser Ala Leu Trp
            340                 345
```

<210> 26151
<211> 169
<212> PRT
<213> A.fumigatus

<400> 26151

```
Arg Val Ser Trp His Arg Ser Ser His Ile Leu Arg Cys Gly Asp Thr
1               5                   10                  15
Asp Thr Phe Ser Ser Gly Ile Trp Pro Ser Asp Ala Lys Ser Cys Asp
            20                  25                  30
Gln Phe Leu Arg His Lys Thr Tyr Leu Val Ser Pro Ser Ile Leu Lys
        35                  40                  45
Ser Gln Tyr Gly Ile Thr Val Asn Lys Leu Val His Tyr Glu Gly Glu
    50                  55                  60
Phe Val Ile Thr Tyr Pro Tyr Gly Tyr His Ser Gly Phe Asn Leu Gly
65                  70                  75                  80
Tyr Asn Cys Ala Glu Ser Val Asn Phe Ala Thr Glu Lys Trp Leu Asp
                85                  90                  95
Tyr Gly Arg Val Ala Lys Lys Cys Asn Cys Glu Ala Asp Ser Val Trp
            100                 105                 110
Ile Asp Val Asp Glu Ile Glu Arg Lys Leu Arg Gly Glu Ala Thr Pro
        115                 120                 125
Glu Tyr Tyr Asp Asp Phe Asp Ser Asp Met Asp Val Ile Glu Gly Ala
    130                 135                 140
Ser Asp Leu Leu Thr Pro Pro Arg Ser Val Pro Glu Lys Lys Ser Thr
145                 150                 155                 160
Arg Gly Arg Glu Thr Pro Ala Ser Trp
                165
```

<210> 26152
<211> 84
<212> PRT
<213> A.fumigatus

<400> 26152

```
Asp Asn Lys Leu Thr Met Ser Val Gln Leu Pro Pro Val Thr His Arg
1               5                   10                  15
Lys Arg Ala Phe Pro Gln Gly Glu Leu Glu Ala Ala Ser Thr Leu Lys
            20                  25                  30
Leu Gly Ala Asp Gln Asn Thr His Thr Leu Ser Leu Ser Glu Ala Arg
        35                  40                  45
Leu Val Ile Asn Lys Val Leu Glu Asn Lys Arg Arg Gly Gly Lys Lys
    50                  55                  60
Tyr Glu Glu Pro Glu Tyr Val Ala Leu Arg Trp Val Ala Arg His Pro
65                  70                  75                  80
Ile Phe Pro Leu
```

<210> 26153
<211> 71
<212> PRT
<213> A.fumigatus

<400> 26153
Ala Met Gly His Tyr Tyr Gln Leu Ile Asn Gly Ile Val Phe Val Leu
1 5 10 15
Ser Gly Pro Gly Phe Ala His Glu Thr Asn Ile Ala Asn Ser Leu Gly
20 25 30
Gln Leu Leu Met His Ala Ala Met Tyr Ile Gln Ser Thr Thr Pro Ala
35 40 45
His Tyr Val Leu His Phe Met Ile Asp Tyr Arg Gln Leu Thr Asn Pro
50 55 60
Ser Ile Ser Thr Ile Arg Leu
65 70

<210> 26154
<211> 229
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (58),(197),(221),(223)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26154
Ser Lys Ala Arg Cys Gly Thr Ser Asn Ser Thr Val Pro Leu Asn Asn
1 5 10 15
Ile Pro Ser Arg Ser Ala Leu Ile Pro Trp Arg Lys Leu Ala Arg Gly
20 25 30
Tyr Arg Gln Val Gln Pro Pro Val Ala Pro Val Glu Asp Cys Gly Trp
35 40 45
Gln Ser Cys Leu Gly Gly Leu Gly Ser Xaa Glu Ser Lys Pro Ser Gly
50 55 60
Asn Asp Asp Ser Gln Pro Ser Leu Gly Trp Lys Ala Thr Leu Leu Asn
65 70 75 80
Ala Thr Leu His Leu Pro Pro Pro Thr Ile Val Asn Ala Leu Phe Leu
85 90 95
Arg Arg Met Ser Pro Thr Met Gln Leu Ser Leu Ala Val Cys Ser Thr
100 105 110
Arg Gly Ala Pro Leu Ser Asn Ser Ala Pro Gln Ala Ser Leu Leu Gly
115 120 125
Gln Leu Ser His Asp Thr Gly Lys Tyr Ser Asn Glu Tyr Leu Phe Ser
130 135 140
Thr Asp Asn Ser Leu Phe Gly Trp Arg Gly Leu Trp Asn Phe Gly Pro
145 150 155 160
Asp Pro Arg His Pro Lys Glu Asn Ser Ser Pro Gln Leu Ser Leu Leu
165 170 175
Ser Ala Gly Ala Glu Ala Tyr Tyr Ser Pro Val Ser Ser Leu Ile Gly
180 185 190
Met Ser Thr Gly Xaa Arg Phe Ser Thr Leu Pro Ala Ala Thr Glu Met
195 200 205
Pro Ser Ser Ser Ser Ser Ala Ser Ser Thr Thr Ile Xaa Ser Xaa Ser
210 215 220

Ala Glu Lys Pro Glu
225

<210> 26155
<211> 106
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26155
Phe Glu Thr Ser Leu Thr Met Leu Asp Phe Met Asp Tyr Ile Gln Leu
1 5 10 15
Ala Phe Ala Glu Ala Thr Asn Trp Asn Arg Asp Asn Ser Tyr Ser Ser
20 25 30
Leu Thr Ala Thr Ala Gln Cys Met Trp Ile Thr Ser Tyr Leu Xaa Ser
35 40 45
Asp Asn His Ser Leu Asn Leu Thr Ala Tyr Ser Ile Thr Arg Leu Leu
50 55 60
Asp Thr Gly Ala Pro Thr Arg Ala Ser Phe Leu Pro Ser His Ser Ser
65 70 75 80
Phe Arg Glu Gln Leu Asn Pro Ser Ala His Trp Ile Asp Arg Arg Leu
85 90 95
Gly Val Val Pro Leu Thr Ala Leu Cys Leu
100 105

<210> 26156
<211> 135
<212> PRT
<213> A.fumigatus

<400> 26156
Lys Met Cys Ala Pro Asn Ser Leu Ile Val Gly Lys Ser Pro Arg Arg
1 5 10 15
Tyr Ala Leu Leu Gln Cys Ala Ile Gln Leu Arg Lys His His Arg Glu
20 25 30
Leu Gln Ser Leu Ile Phe Asn Ser Leu Phe Phe Gly Lys Thr Lys Val
35 40 45
Met Ala Val Ala Leu Gly His Asn Pro Glu Asn Glu Ala Ala Pro Asn
50 55 60
Leu His Lys Leu Ser Pro Tyr Leu Thr Gly Ala Val Gly Leu Leu Phe
65 70 75 80
Thr Ser Arg Asp Pro Glu Ser Val Leu Ser Tyr Phe Asp Ala Phe Arg
85 90 95
Pro Leu Asp Phe Ala Arg Ala Gly Thr Val Ser Thr Arg Ser Phe Ser
100 105 110
Ile Pro Asn Gly Leu Val Tyr Ser Arg Gly Gly Glu Ile Pro Ala Ser
115 120 125
Glu Asp Glu Pro Val Ser Arg
130 135

<210> 26157
<211> 68

<212> PRT
<213> A.fumigatus

<400> 26157
Tyr Leu Lys Met Pro Arg Ser Lys Arg Ala Arg Ile Val His Glu Ser
1 5 10 15
Lys Val Thr Lys Lys Ser His Lys Glu Gln Thr Arg Arg Leu Tyr Ala
20 25 30
Asn Ile Arg Glu Cys Val Glu Lys Tyr Asp His Leu Phe Val Phe Ser
35 40 45
Val Asp Asn Met Arg Asn Thr Tyr Leu Lys Asp Val Arg Thr Glu Phe
50 55 60
Ala Asp Ser Arg
65

<210> 26158
<211> 75
<212> PRT
<213> A.fumigatus

<400> 26158
Tyr Leu Ile Thr Asp Glu Ile Glu Leu Gly Arg Gly Arg Ile Asn Ser
1 5 10 15
Thr Leu Asp Ser Thr Ile Asn Pro His Ser Trp Thr Glu Val Ser Asn
20 25 30
Val Leu Phe Leu Ser Gln Pro Leu Gly Val Gly Met His Gln Thr Thr
35 40 45
Gly Ala Leu Gln Phe Ser Arg Leu Ser Thr His Asn Thr Ala Met Gln
50 55 60
Asp Phe Pro Thr Ala Arg Gln Asn Pro Ala Arg
65 70 75

<210> 26159
<211> 199
<212> PRT
<213> A.fumigatus

<400> 26159
Val Ser Leu Asn Ala Gly Asn Val Ala Asp Met Gly Lys Thr Asp Ser
1 5 10 15
Tyr Gln Val Thr Gly Ile Ala Trp Ala Gln Gly Gln Phe Met Gly Leu
20 25 30
Ser Thr Pro Met Val Pro Pro Phe Pro Ile Ser Asp Tyr Gly Thr Gly
35 40 45
Cys Met Gly Ala Ile Ala Ala Leu Thr Gly Leu Tyr His Arg Ala Lys
50 55 60
Thr Gly Gly Ser Tyr His Gly Met Ala Ser Leu Met His Tyr Asp Leu
65 70 75 80
Leu Leu Phe Ala Val Gly Lys Tyr Pro Asp Ala Val Gln Glu Lys Met
85 90 95
Arg Ala Ala Gln Pro Pro Glu Phe Phe Lys Leu Arg His Cys Asp Ser
100 105 110
Val Asp Arg Ile Ser Ser Thr Val Leu Lys Ile Met Gln Ala Arg Phe
115 120 125
Pro His Leu Tyr Val Ala Pro Asp Val Ala Gly Gln Glu Ala Leu Thr
130 135 140

```
Glu Lys Trp Phe Ser Lys Ala Tyr Asn Ala Asp Ile Glu Val Val Lys
145                 150                 155                 160
Pro Ile Val Glu Ile Asp Gly Val Asp Asn Ser Phe Ser Arg Ala Ser
                165                 170                 175
Arg Pro Asn Gly Ser Asp Arg Pro Ser Trp Glu Asp Phe Lys Leu Pro
            180                 185                 190
Glu Glu Asp Tyr Lys Lys Ala
        195
```

<210> 26160
<211> 96
<212> PRT
<213> A.fumigatus

<400> 26160

```
Ile Asn His Ser Asp Ser Leu Ser Gln Thr Asn Arg Gln Pro Ser Ser
1               5                   10                  15
Thr Arg Arg Thr Leu Ser Glu Pro Ser Ile Ile Lys Met Ser Tyr Lys
            20                  25                  30
Ile Thr Thr Asp Pro Thr Leu Ser Pro Pro Phe Ala Asn Ala Met Ile
        35                  40                  45
Ser Phe Met Glu Ser Phe Tyr Gln Ile Ser Asp Asp Glu Ser Gln His
    50                  55                  60
Glu Gln Tyr Val Ala Ser Phe Thr Ser Asp Ala Thr Leu Ile Met Gly
65                  70                  75                  80
Pro Lys Val Pro Asn Gly Ala Asp Gly Ser Leu Pro Ser His Lys Asp
                85                  90                  95
```

<210> 26161
<211> 202
<212> PRT
<213> A.fumigatus

<400> 26161

```
Thr Thr Arg Ser Thr Met Glu Ile Asp Gln Val Lys Pro Glu Arg His
1               5                   10                  15
Asp Ile Ala Pro Asp Gly Asp Leu Ile Leu Leu Tyr Lys Lys His Ala
            20                  25                  30
Asn Arg Pro Val Glu Leu Arg Val Ser Thr Thr Ile Leu Lys Ser Gln
        35                  40                  45
Ser Ile Tyr Phe Glu Ala Leu Ser Gly Arg Trp Leu Glu Thr Leu Pro
    50                  55                  60
Val Arg Pro Asp Gly Leu Arg Glu Met Ala Phe Glu Arg Phe Asp Pro
65                  70                  75                  80
Asp Ala Met Leu Ile Ile Met Lys Ala Ala His Leu Lys Phe Gln Gly
                85                  90                  95
Ile Pro Asp Glu Leu Asn Val Lys Leu Leu His Lys Ile Ala Lys Tyr
            100                 105                 110
Val His Met Phe Asp Met Phe Pro Ala Val Cys Thr Leu Ala Arg Pro
        115                 120                 125
Trp Ile Gln Tyr Val Arg Met Phe Val Asp Gln Cys Asn Ser Thr Glu
    130                 135                 140
Leu Ala Gly Tyr Leu Leu Gly Ile Met Trp Val Phe Asn Leu Lys Glu
145                 150                 155                 160
Gln Phe Lys Lys Ala Thr Arg Ser Ile Val Val Asp Cys Asn Ala Val
                165                 170                 175
```

```
Asp Ile Asp Leu Ser Arg Thr Leu Ile Asp Gln Ser Ser Leu His His
            180                 185                 190
Gly Ala Gly Arg Ile Arg Gly Gly Val Ile
        195                 200

<210> 26162
<211> 133
<212> PRT
<213> A.fumigatus

<400> 26162
Thr Leu Arg Val Ser Glu Thr Phe Cys Leu Arg Leu Trp Gln Ser Asp
1               5                   10                  15
Thr Gln Pro Leu Tyr Arg Thr Gly Pro Tyr Ala Ala Leu Asn Leu Asn
            20                  25                  30
Leu Asp Phe Ala Arg Lys Thr Arg Asn Cys Leu Leu Glu Leu Leu Leu
        35                  40                  45
Gln Gln Arg Lys Trp Ile Ala Thr Asn Leu Gly Pro Leu Arg Met Arg
    50                  55                  60
Arg Ser Met Lys Val Cys Ser Leu His Tyr Asp Val Asn Ser Val Leu
65                  70                  75                  80
Lys Ile Ala Phe Ile Val Ile Asp Tyr Phe Asp Gly Leu Pro Ser Gln
                85                  90                  95
Arg Val Val Pro Thr Ile Glu Pro Gly Tyr Leu Arg Pro Leu Ile Pro
            100                 105                 110
Glu Asn Pro Pro Glu Glu Pro Glu Gln Cys Leu Arg Tyr Ser Arg Arg
        115                 120                 125
Val Glu Asp Pro Cys
    130

<210> 26163
<211> 72
<212> PRT
<213> A.fumigatus

<400> 26163
Leu Val Gly Pro Asn Tyr His Pro Ile Gly Thr Ala Ser Met Met Ala
1               5                   10                  15
Arg Glu Leu Gly Gly Val Val Asp Ser Arg Leu Lys Val Tyr Gly Thr
            20                  25                  30
Glu Asn Val Arg Val Val Asp Ala Ser Val Ile Pro Leu Gln Val Ser
        35                  40                  45
Gly His Leu Thr Ala Thr Leu Tyr Ala Val Ala Glu Arg Ala Ala Asp
    50                  55                  60
Ile Ile Leu Asp Gly Arg Glu Asp
65                  70

<210> 26164
<211> 253
<212> PRT
<213> A.fumigatus

<400> 26164
Ala Tyr Tyr Arg Gly Ile Leu Pro Ala Pro Glu Val Lys Thr Ser Gly
1               5                   10                  15
Ser Lys Tyr Pro Ser Pro Ile Leu Ser Leu Arg Val Ile Thr Ser Gly
```

```
            20                  25                  30
Val Ala Arg Glu Asp Lys His Ile Ala Val Gly Met Gln Ser Gly Leu
        35                  40                  45
Leu Ser Ile Lys Thr Arg Leu Ser Gly Gln Gln Lys Ile Arg Glu Arg
    50                  55                  60
Glu Arg Arg Lys Glu Met Gln Ala Leu Leu Glu Gly Lys Leu Glu Glu
65                  70                  75                  80
His Asp Arg Lys Val Ala Lys Gln Lys Lys Leu Arg Gly Ser Gly Trp
                85                  90                  95
Glu Lys Arg Leu Arg Gly Arg Asp Phe Ile Gly Glu Gly Val Glu Ile
            100                 105                 110
Val Ile Glu Gly Gln Asp Lys Lys Lys Arg Lys Lys Glu Gln Thr Trp
        115                 120                 125
Glu Tyr Asp Leu Arg Lys Ala Arg Tyr Ser Ala Ala Leu Asp Gln Val
    130                 135                 140
Leu Ala Ser Ser Asp Lys Thr Ala Gln Leu Thr Leu Phe Thr Ala Leu
145                 150                 155                 160
Arg His Arg Ser Ala Leu Arg Ala Ala Leu Gln Gly Arg Asp Glu Glu
                165                 170                 175
Thr Leu Gln Pro Val Leu Gln Trp Val His Arg Asn Ile Thr Glu Pro
            180                 185                 190
Arg Leu Val Thr Leu Cys Val Glu Val Ala Met Asn Val Leu Asp Ile
        195                 200                 205
Tyr Ser Gly Asn Leu Gly Gln Ser Ala Gln Ile Asp Lys Met Val Glu
    210                 215                 220
Arg Leu His Arg Arg Val Arg Glu Glu Val Glu Met Ala His Gln Ala
225                 230                 235                 240
Cys Gln Thr Lys Gly Met Leu Asp Met Leu Gln Ala Val
                245                 250
```

<210> 26165
<211> 278
<212> PRT
<213> A.fumigatus

<400> 26165

```
Arg Gln Ala Gly Arg Ala Arg Pro Glu Gly Gly Gln Ala Glu Lys Thr
1               5                   10                  15
Ala Arg Val Arg Leu Gly Glu Ala Ala Ala Arg Ala Gly Phe His Arg
            20                  25                  30
Arg Arg Arg Gly Asp Arg Asp Arg Gly Pro Gly Gln Glu Glu Ala Gln
        35                  40                  45
Glu Gly Ala Asp Val Gly Val Arg Pro Ala Gln Gly Ala Val Leu Gly
    50                  55                  60
Gly Ala Gly Pro Gly Ala Gly Val Glu Arg Gln Asp Gly Ala Ala Asp
65                  70                  75                  80
Ala Val His Gly Ala Ala Ala Pro Leu Arg Ala Ala Gly Arg Ala Ala
                85                  90                  95
Gly Pro Arg Arg Gly Asp Ala Ala Ala Gly Ala Ala Val Gly Ala Gln
            100                 105                 110
Glu His His Gly Ala Ala Ala Gly Asp Ala Val Arg Gly Gly Arg His
        115                 120                 125
Glu Arg Val Gly His Leu Leu Gly Gln Ser Gly Thr Val Gly Ala Asp
    130                 135                 140
Arg Gln Asp Gly Gly Ala Pro Ala Ser Ala Gly Ala Arg Gly Gly Gly
145                 150                 155                 160
```

```
Asn Gly Ala Ser Gly Val Ser Asp Gln Gly Asp Ala Gly Tyr Val Ala
                165                 170                 175
Gly Arg Ile Ala Arg Thr Arg Ala Arg Val Gln Arg Ala Ile Ala Ser
            180                 185                 190
Ile Leu Arg Arg Gly Gln Lys Val Phe Ile Tyr Leu Asp Leu Leu His
        195                 200                 205
Tyr Gly Tyr Leu Glu Gly Val Arg Glu Phe Ile Val His Tyr Phe Phe
    210                 215                 220
Phe Phe Phe Phe Phe Phe Phe Phe Val Phe Leu Gln Ser Ser Leu Pro
225                 230                 235                 240
Ser Asn Ile Ile Ser Ala Ala Leu Ser Ala Thr Ala Tyr Asn Val Ala
                245                 250                 255
Val Arg Cys Pro Leu Thr Cys Ser Gly Ile Thr Asp Ala Ser Thr Thr
            260                 265                 270
Leu Thr Phe Ser Val Pro
        275

<210> 26166
<211> 438
<212> PRT
<213> A.fumigatus

<400> 26166
Phe Gln Lys Met Gln Lys Phe Tyr Leu Ser Thr Tyr Ala Lys Pro Ser
1                   5                  10                  15
Leu Gly Gly Leu Ala Thr Gly Ser Ile Thr His Gly Tyr Gly Gln Trp
            20                  25                  30
Met Pro Glu Asn Ile Arg Leu Arg Arg Ala Trp Leu Ser His Leu Leu
        35                  40                  45
Asp Lys Ala Lys Pro Glu Ile Pro Arg Lys Leu Arg Asp Gly Gln Glu
    50                  55                  60
Asn Pro Val Glu Ala Leu Arg Asn Leu Ile Glu Asn Asn Ser Thr Leu
65                  70                  75                  80
Tyr Met Leu Ala His Ser Met Phe Asp Glu Val Pro Glu Lys Ala Pro
                85                  90                  95
Tyr Asp Arg Asp Pro Thr Thr Leu Lys Lys Gln Val Arg Asn Tyr Lys
            100                 105                 110
Thr Met Leu Tyr Leu Phe Asn Thr Leu Leu Thr Glu Val Pro Glu Tyr
        115                 120                 125
Phe Leu Val Asn Asp Pro Asp Val Pro Ser Gly Leu Ile Gly Phe Pro
    130                 135                 140
Phe Asn Val Ile Val Asp Trp Pro Met Gly Thr Gln Ser Gly Arg Gln
145                 150                 155                 160
Phe Phe Leu Asp Pro Arg Val Asn Gly Cys Leu Lys Ala Ile Leu Asn
                165                 170                 175
Lys Trp Asn Asp Phe Leu Ser Asp Pro Thr Gly Gly Thr Gly Gln Glu
            180                 185                 190
Gly Gly Gly Asn Gln Ala Leu Ile Asp Ala Gly Trp Ser Ser Asp Ile
        195                 200                 205
Ala Val Gln Gln Leu Glu Lys Lys Ala Asn Asp Ala Thr Pro Gly Ser
    210                 215                 220
Lys Arg Lys Phe Thr Glu Leu Phe Ile His Pro Glu Gly Gly Thr Gln
225                 230                 235                 240
Glu Asn Phe Phe Lys Tyr Ala Cys Trp Asp Asp Phe Phe Thr Arg Lys
                245                 250                 255
Phe Arg Pro Gly Val Arg Pro Val Gly Asp Gly Ala Val Val Asn Ala
```

```
            260                 265                 270
Cys Glu Ser Phe Pro Leu Ser Phe Asp Thr Asp Val Ser Gly Arg Thr
        275                 280                 285
Thr Phe Trp Leu Lys Gly Met Pro Tyr Ser Leu His Asp Met Leu Gly
    290                 295                 300
Ala Thr Gln Asp Asp Arg Val Ser Gln Tyr Val Asp Lys Phe Val Gly
305                 310                 315                 320
Gly Thr Val Tyr Gln Ala Phe Leu Ser Ala Asp Ser Tyr His Cys Trp
                325                 330                 335
Asn Ala Pro Val Ser Gly Thr Val Val Tyr Gln Ser Arg Ile Asp Gly
            340                 345                 350
Thr Tyr Phe Ala Glu Thr Pro Ala Ser Gly Phe Gly Gly Ser Ser Gly
        355                 360                 365
Pro Asp Pro Ala Gly Pro Asp Met Ser Gln Arg Tyr Ile Thr His Val
    370                 375                 380
Ala Ala Arg Gly Val Leu Ile Val Asn Thr Asn Val Pro Asn Gly Ser
385                 390                 395                 400
Gln Val Gly Phe Val Gly Phe Ile Pro Val Gly Met Ser Glu Val Ser
                405                 410                 415
Thr Cys Arg Trp Glu Asp Lys Ile Val Glu Gly Cys Thr Ile Thr Lys
            420                 425                 430
Gly Glu Asp Ile Gly Ala
        435
```

<210> 26167
<211> 83
<212> PRT
<213> A.fumigatus

<400> 26167

```
Cys Leu Ile Ala Thr Thr Leu Leu Pro Gly Pro Ser Arg Gly Val Ala
1               5                   10                  15
Glu Glu Ile Ile Pro Phe Ile Gln Asp Gly Phe Gln Thr Pro Ile His
            20                  25                  30
Ser Gly Ile Lys Glu Glu Leu Thr Thr Thr Leu Arg Ala His Arg Pro
        35                  40                  45
Val Asn Asp Asp Ile Glu Trp Glu Pro Asn Lys Thr Ala Gly Tyr Val
    50                  55                  60
Gly Val Val Tyr Gln Lys Val Leu Gly His Phe Ser Gln Gln Gly Ile
65                  70                  75                  80
Glu Glu Ile
```

<210> 26168
<211> 183
<212> PRT
<213> A.fumigatus

<400> 26168

```
Ala Arg Asn Lys Ser Gly Arg Leu Gln Ala Phe Ile Thr Glu Tyr Asp
1               5                   10                  15
Pro Phe Leu Met Pro Asn Leu Met Thr Tyr Ile Tyr Thr Arg Gly Gln
            20                  25                  30
Asn Gly Lys Val Asn Gly Phe Ala Ala Leu Arg Trp Ile Gly Glu Lys
        35                  40                  45
Asn Gly Tyr His Val Asp Pro Cys Ile Ala Ala Pro Arg Ala Pro Lys
```

```
    50                  55                  60
Gly Ile Ser Asp Leu Leu Ile Phe Ala Ser Met Ala Trp Leu Arg Gln
65                  70                  75                  80
Ile Gly Ile Ser Leu Leu Ser Phe Gly Tyr Glu Pro Ser Asp Ser Leu
                85                  90                  95
Ala Glu Val Ser Gly Met Pro Ser Pro Leu Ala His Leu Thr Arg Gln
            100                 105                 110
Ile Tyr Arg Tyr Thr Phe Gln Arg Leu Pro Ile Gly Gly Lys Lys Ala
        115                 120                 125
Tyr Phe Asp Lys Phe Lys Pro Asp Glu Glu Gln Asp Ser Pro Leu Tyr
    130                 135                 140
Leu Ile Phe Pro Ser Thr Ile Pro Glu Pro Arg Pro Ile Ile Ala Met
145                 150                 155                 160
Ala His Val Ala Asn Ile Ser Ile Arg Lys Leu Trp Phe His His Arg
                165                 170                 175
Ser Lys Pro Ala Val Pro Gln
            180
```

<210> 26169
<211> 106
<212> PRT
<213> A.fumigatus

<400> 26169

```
Val Gln Ser Gln Thr Ile Met Ala Cys Thr Thr Thr Phe Leu Asp Leu
1               5                   10                  15
Pro Ala Glu Ile His Leu Leu Ile Cys Glu Tyr Leu Asp Pro Ala Ser
            20                  25                  30
Ala Val Ala Leu Lys Ser Ala Ser Lys Tyr Leu Arg Ser Ile Ile Thr
        35                  40                  45
Val Asp Met Asp Glu Leu Glu Leu Glu Tyr Trp Glu Val Phe Tyr Ile
    50                  55                  60
Thr Leu Glu Met Trp Pro Glu Arg Val Pro Leu Asn His Asn Glu Cys
65                  70                  75                  80
Leu Ser Asp Ile Asp Gly Met Ile Leu Thr Leu Thr Tyr Leu Gln Ile
                85                  90                  95
Arg Gln Ser Leu Leu Leu His Trp Met Leu
            100                 105
```

<210> 26170
<211> 73
<212> PRT
<213> A.fumigatus

<400> 26170

```
Ile Ala Arg Thr Arg Ile Val Met Gly Thr His Asp Asn Arg Phe Trp
1               5                   10                  15
Thr Ile Pro Trp Trp Val Gly His Phe Ile Tyr Ser Gly Glu Cys Gly
            20                  25                  30
Asn Lys Val Val Arg Asp Val Trp Tyr Cys Asn Gly Val Gly Ser Glu
        35                  40                  45
Gly Ser Glu Gly Ser Gly Tyr Gly Asp Leu Val Ala Arg Ser Pro Ser
    50                  55                  60
Ser Ala Ser Ser Gly Pro Gly Arg Leu
65                  70
```

<210> 26171
<211> 261
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (220)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26171
Val Gly Phe Cys Ser Asp Glu Asn Thr Thr Cys Ile Leu Met Val Ile
1 5 10 15
Val Ala Pro Lys Leu Arg Met Gly Pro Leu Glu Pro Arg Val Leu Val
20 25 30
Gly Asn Val Ser Thr Glu Phe Ala Asn Pro Ala Tyr Leu Ile Thr His
35 40 45
Cys Ser Thr Pro Val Thr Leu Ala Met Asp Pro Glu Ala Ala Gly Ser
50 55 60
Thr Cys Leu Asp Leu Glu Leu Val Gly Gln Ala Tyr His Asn Tyr Gln
65 70 75 80
Ala Tyr Ile Ser Ala Trp Ser Asp Leu Ala Lys Thr Asn Asn Gly Thr
85 90 95
Thr Ser Thr Leu Ala Ala Arg Pro Pro Pro Thr Gly Ser Leu Tyr Asp
100 105 110
Asn Thr Thr Val Thr Gly Ser Trp Ile Asp Ile Gly Asn Met Thr Glu
115 120 125
Leu Ser Leu Arg Tyr Gly Arg Met Val Asn Asn Val Thr Ala Ala Met
130 135 140
Pro His Ala Gly Val Ile Ala Ala Ala Ala Asp Pro Arg Asn Gly Ile
145 150 155 160
Arg Gln Pro Ala Asp Val Thr Gly Glu Gly Asn Phe Glu Ile Glu Ala
165 170 175
Ser Val Pro Ser Pro Ala Val Asn Val Leu Cys Val Gly Met Thr Glu
180 185 190
Glu Glu Leu Thr Pro Leu Val Tyr Glu Arg Leu Ala Asp Arg His Asn
195 200 205
Phe Asn Pro Leu Asn Trp Asp Tyr Glu Gly Thr Xaa Phe Val Pro Val
210 215 220
Glu Arg Phe His Arg Thr Val Val Asp Glu Leu Phe Gly Trp Asp Pro
225 230 235 240
Thr Gly Gln Arg Arg Ser Pro Ala Lys Pro Arg Pro Val Phe Gly Lys
245 250 255
Leu Ala Pro Pro Pro
260

<210> 26172
<211> 324
<212> PRT
<213> A.fumigatus

<400> 26172
Asn Pro Leu Thr Val Gly Val His Pro Leu Pro Ser Phe Pro Val Gly
1 5 10 15
Leu Asp Lys Phe Arg Thr Ala Val Arg Ala Ser Glu Ser Gln Gln Ser
20 25 30

```
Lys Gln Tyr Leu Leu Pro Pro Val Ser Glu Leu Leu Arg Arg Asp Asp
        35                  40                  45
Thr Thr Asn Lys Asn Asn Asn His Asn Asp Asn Glu Asp His Ser Phe
    50                  55                  60
Leu Pro Lys Ser Trp Asn Pro Phe Asp Arg Ser Pro Ser Pro Asp Arg
65                  70                  75                  80
Asp Tyr Ile Arg Tyr Gln Pro Ala Ser Ser Thr Asn Asp Asp Pro Ala
                85                  90                  95
Ser Pro Pro Ala Pro Arg Glu Pro Ala Leu Gly Leu Gly Ile Thr Asn
            100                 105                 110
Thr Phe Pro Gln Ser Pro Tyr Lys Arg Pro Gly Pro Asp Asp Ala Asp
        115                 120                 125
Asp Gly Asp Leu Ala Thr Lys Ser Pro Tyr Pro Glu Pro Ser Glu Pro
    130                 135                 140
Ser Glu Pro Thr Pro Leu Gln Tyr Gln Thr Ser Arg Thr Thr Leu Leu
145                 150                 155                 160
Pro His Ser Pro Glu Tyr Ile Lys Cys Pro Thr His Gln Gly Ile Val
                165                 170                 175
Gln Lys Arg Leu Ser Trp Val Pro Ile Thr Ile Leu Val Leu Ala Ile
            180                 185                 190
Tyr Ser Thr Ile Phe Ser Gly Ile Tyr Leu Val Leu Ala Leu Val Lys
        195                 200                 205
Pro Arg Tyr Gly Lys Lys Ile Gly Glu Asp Gly Gly Leu Ala Pro Ser
    210                 215                 220
Thr Ala Ser Leu Leu Ser Ala Leu Phe Ala Lys Thr Ile Glu Leu Ser
225                 230                 235                 240
Tyr Val Thr Val Cys Val Ala Phe Leu Gly Gln Val Leu Ser Arg Arg
                245                 250                 255
Ala Ile Thr Lys Gly Ser Arg Gly Ile Thr Ile Ser Asp Met Ser Met
            260                 265                 270
Arg Thr Trp Ile Met Gln Pro Gly Ser Leu Ile Val His Trp Glu Thr
        275                 280                 285
Val Arg Tyr Ser Ala Leu Thr Val Leu Gly Val Ile Thr Leu Thr Ala
    290                 295                 300
Thr Leu Val Ala Met Leu Tyr Thr Thr Ala Ala Glu Ala Leu Gly Gly
305                 310                 315                 320
Phe Leu Leu Arg
```

<210> 26173
<211> 83
<212> PRT
<213> A.fumigatus

<400> 26173

```
Leu Thr Met Leu Val Pro Ser Val Pro Leu Leu Asn Leu Ile Asn Asp
1               5                   10                  15
Gly Arg Lys Leu Ser Met Leu Arg Asn Ala Thr Trp Thr Leu Ser Asn
            20                  25                  30
Phe Cys Arg Gly Lys Thr Pro Gln Pro Asp Trp Thr Thr Val Ser Phe
        35                  40                  45
Ser Arg Leu Cys Ser Asp Asp Asn Val Thr Phe Leu Thr Leu Pro Arg
    50                  55                  60
Leu Pro Leu Leu Phe Leu Cys Leu Pro Asn Ser Ser Ile Cys Ser Met
65                  70                  75                  80
Met Arg Ser
```

<210> 26174
<211> 312
<212> PRT
<213> A.fumigatus

<400> 26174
Gln Arg His Phe Ser Asn Ala Ser Gln Ile Ala Pro Ala Leu Pro Val
1 5 10 15
Leu Ala Lys Leu Ile Tyr Met Leu Asp Asp Glu Val Leu Ile Asp Ala
20 25 30
Cys Trp Ala Ile Ser Tyr Leu Ser Asp Gly Ser Asn Asp Lys Ile Gln
35 40 45
Ala Val Ile Glu Ala Gly Ile Pro Arg Arg Leu Val Glu Leu Leu Met
50 55 60
His Ala Ser Thr Ser Val Gln Thr Pro Ala Leu Arg Ser Val Gly Asn
65 70 75 80
Ile Val Thr Gly Asp Asp Val Gln Thr Gln Val Ile Ile Asn Cys Gly
85 90 95
Ala Leu Pro Ala Leu Leu Ser Leu Leu Ser Ser Thr Lys Asp Gly Ile
100 105 110
Arg Lys Glu Ala Cys Trp Thr Ile Ser Asn Ile Thr Ala Gly Asn Ser
115 120 125
Ser Gln Ile Gln Ser Val Ile Asp Ala Gly Ile Ile Pro Pro Leu Ile
130 135 140
Asn Leu Leu Ala Asn Gly Asp Phe Lys Thr Arg Lys Glu Ala Cys Trp
145 150 155 160
Ala Ile Ser Asn Ala Thr Ser Gly Gly Leu Gln Lys Pro Asp Gln Ile
165 170 175
Arg Tyr Leu Val Ser Gln Gly Cys Ile Lys Pro Leu Cys Asp Leu Leu
180 185 190
Ala Cys Pro Asp Asn Lys Ile Ile Gln Val Ala Leu Asp Gly Leu Glu
195 200 205
Asn Ile Leu Lys Val Gly Glu Met Asp Lys Glu Ala Ala Gln Thr Gly
210 215 220
Glu Ala Arg Val Asn Arg Tyr Ala Leu Phe Ile Glu Glu Ala Gly Gly
225 230 235 240
Met Glu Lys Ile His Asp Cys Gln Asn Asn Ala Asn Glu Glu Ile Tyr
245 250 255
Met Lys Ala Tyr Asn Ile Ile Glu Lys Tyr Phe Ser Asp Glu Glu Glu
260 265 270
Ala Gly Gly Asp Ile Asp Glu Leu Ala Pro Gln Gln Thr Gln Thr Gly
275 280 285
Phe Ala Leu Gly Thr Asn Gln Gln Gln Pro Gly Gly Phe Asn Phe Ala
290 295 300
Asn Gly Gly Asp Ser Met Asp Met
305 310

<210> 26175
<211> 83
<212> PRT
<213> A.fumigatus

<400> 26175
Phe His Leu Asn Phe Phe Phe Ile Asn Ala Glu Ile Ser Arg Gln Leu

```
1               5                   10                  15
Lys Phe Glu Pro His Pro Leu Phe Ser Ile Arg Tyr Ser Pro Ala Ile
            20                  25                  30
Tyr Leu Ser Lys Thr Val Asn Gln Trp Gln Tyr Val His Ile Asn Pro
        35                  40                  45
Ile Asn Thr Cys Pro Lys Val Cys His Thr Lys Leu Ile Arg Pro Cys
    50                  55                  60
Leu Asn Val Leu Pro Phe Lys Lys Gln Pro Met Ile Gly Arg Leu Pro
65                  70                  75                  80
Pro Ser Val
```

<210> 26176
<211> 328
<212> PRT
<213> A.fumigatus

<400> 26176

```
Leu Asp Thr His Ser Ala Asp Pro Ser Ala Pro Val Val Lys Met Val
1               5                   10                  15
Ser Gly His Tyr Val Phe Ser Lys Leu Ile Val Asp Gly Lys Pro Thr
            20                  25                  30
Gln Asp Phe Glu Tyr Ile Arg Arg Asn Thr Asn Asn Tyr Met Pro Thr
        35                  40                  45
Leu Pro Ser Glu Ile Leu Ser Asn Asp Phe Arg Cys Asn Lys Gly Ser
    50                  55                  60
Met Gln Ser Ala Ala Asn Thr Lys Val Tyr Lys Val Ala Pro Gly Thr
65                  70                  75                  80
Glu Leu Gly Phe Gln Leu Ala Tyr Gly Ala Glu Met Lys His Pro Gly
                85                  90                  95
Pro Leu Gln Ile Tyr Met Ser Lys Ala Pro Gly Asp Val Arg Ser Tyr
            100                 105                 110
Asp Gly Ser Gly Asp Trp Phe Lys Val His Gln Glu Gly Leu Cys Ala
        115                 120                 125
Asp Thr Ser Lys Gly Ile Lys Asp Glu Asp Trp Cys Thr Trp Gly Lys
    130                 135                 140
Asp Thr Ala Ser Phe Lys Ile Pro Gln Asp Thr Pro Ala Gly Gln Tyr
145                 150                 155                 160
Leu Val Arg Val Glu His Ile Gly Leu His Arg Gly Phe Leu Gly Glu
                165                 170                 175
Ala Glu Phe Tyr Phe Thr Cys Ala Gln Ile Glu Val Thr Gly Ser Gly
            180                 185                 190
Ser Gly Ser Pro Ser Pro Thr Val Lys Ile Pro Gly Val Tyr Lys Pro
        195                 200                 205
Asp Asp Pro Asn Val His Phe Asn Ile Trp Tyr Pro Thr Pro Thr Ala
    210                 215                 220
Tyr Ser Leu Pro Gly Pro Ser Val Trp Thr Gly Gly Ser Ala Gly Gly
225                 230                 235                 240
Ala Ser Pro Thr Ala Pro Ala Val Asn Asn Asn Ala Val Gln Ala Ala
                245                 250                 255
Pro Thr Thr Met Thr Thr Val Ser Ser Pro Ala Asn Pro Thr Ala Gly
            260                 265                 270
Ala Glu Ala Glu Ala Asp Cys Gly Ser Ser Glu Ser Ser Ser Ala Val
        275                 280                 285
Ala Pro Glu Gly Thr Leu Lys Lys Trp Glu Gln Cys Gly Gly Leu Asn
    290                 295                 300
```

```
Trp Thr Gly Ser Gly Ser Cys Glu Ala Arg Thr Thr Cys His Gln Tyr
305                 310                 315                 320
Asn Pro Tyr Tyr Tyr Gln Cys Ile
                325
```

<210> 26177
<211> 100
<212> PRT
<213> A.fumigatus

<400> 26177

```
Gln Ser Leu Pro Leu Arg Leu Lys Leu Ile Lys His Ser Ile Pro Ile
1               5                   10                  15
Leu Ser Arg His Leu Thr Ile Gly Gly Ala Asp Leu Ser Val Thr Ile
            20                  25                  30
Asn Val Val Leu Pro His Gln Pro Thr Ser Lys Gly Ser Ala Tyr Pro
        35                  40                  45
Glu Phe Leu Arg Trp Cys Phe Cys Gly Gly Met Val Trp Phe Cys Ser
    50                  55                  60
Asn Gln Thr Ala Ser Leu Tyr Pro Trp Thr Leu Lys Ser His Val Ser
65                  70                  75                  80
Pro Gln Tyr Ser Ser Val Phe Gln Leu Arg Leu Ser Ile Tyr Asp Cys
                85                  90                  95
Val Asn Thr Asp
            100
```

<210> 26178
<211> 185
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (90),(165)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26178

```
Ala Cys Val Phe Ala Asn Ala Ala Ile Val Gln Phe Lys Leu Thr Ile
1               5                   10                  15
Gln Ala Val Arg Tyr Leu Arg Asn Ala Tyr Pro Ser Asp Lys Leu Val
            20                  25                  30
Phe Arg Val Val Thr Leu Leu Glu Pro Pro Lys Ala Leu Met Ile Pro
        35                  40                  45
Tyr Leu Glu Ala Glu Arg Ser Gly Lys Arg Asp Val Thr Ala Pro Lys
    50                  55                  60
Arg Thr Ala Phe Val Gln Phe Tyr Lys Asn Thr Thr Ala Glu Phe Arg
65                  70                  75                  80
Glu Val His Ile Glu Leu Asp Thr Gly Xaa Ile Thr Lys Glu Lys Asp
                85                  90                  95
Leu Ala Gly Arg His Ser Tyr Val Asp Pro Glu Glu Met Gln Ala Ala
            100                 105                 110
Glu Asp Ala Cys Ile Ala Ser Thr Glu Val Gln Glu Ala Ile Arg Leu
        115                 120                 125
Leu Glu Leu Pro Glu Glu Ala Val Val Cys Ile Glu Pro Trp Thr Tyr
    130                 135                 140
Gly Thr Asp Gly Met Asn Asp Met Ser Glu Arg Ile Ile Met Val Trp
```

```
145                 150                 155                 160
Tyr Ser Val Thr Xaa Glu Ser Ala Val Val Thr Phe Tyr Thr Val Leu
                165                 170                 175
Leu Leu His Ala Ser Trp Glu Pro Arg
            180                 185

<210> 26179
<211> 143
<212> PRT
<213> A.fumigatus

<400> 26179
Arg Leu Trp Leu Val Glu Arg Thr Phe Leu Ala Trp Leu Arg Thr Ser
1               5                   10                  15
Leu Ala Phe Ala Ser Ile Gly Ile Ala Val Thr Gln Leu Phe Arg Leu
            20                  25                  30
Asn Ala Thr Asn Ala Pro Ser Ser Asp Val Ser Ser Gln Gln Phe Pro
        35                  40                  45
Ser Leu Leu Ser Pro Pro Phe Tyr Asp Ser Ala Thr Ile Gln Ile Thr
    50                  55                  60
Ser Glu Ser Gln Arg Leu Arg Asn Ile Gly Lys Pro Leu Gly Thr Thr
65                  70                  75                  80
Phe Ile Gly Ile Ala Leu Met Ile Leu Leu Ile Gly Phe His Arg Tyr
                85                  90                  95
Phe Glu Ser Gln Tyr Trp Ile Ile Arg Gly Lys Phe Pro Ala Ser Arg
            100                 105                 110
Gly Ser Val Ala Leu Val Ala Ile Val Ala Ala Ala Leu Ile Val Thr
        115                 120                 125
Ser Phe Val Val Ile Leu Ala Ile Ser Pro Ser Ala Thr Glu Ser
    130                 135                 140

<210> 26180
<211> 299
<212> PRT
<213> A.fumigatus

<400> 26180
Ser Leu Ala Asp Arg Asp Arg Arg Arg Gln Arg Ala Ala Cys Thr Ala
1               5                   10                  15
Phe Lys Val Ser Asn Cys Ala Pro Phe Tyr Glu Pro Thr Phe Asn Asp
            20                  25                  30
Pro Lys Ile Arg Asp Thr Tyr Arg Leu Gly His Ser Ser Gly Ser Gly
        35                  40                  45
Gly Leu Leu Leu Thr Asp Gly Val Ala Ser Leu Asn Ala Gly Leu Glu
    50                  55                  60
Leu Ala Ser Ala Asp Ile Leu Ala Leu Gly Lys Ser His Ile Gln Arg
65                  70                  75                  80
Leu Ala Val Asp His Ser Leu Val His Phe Gly Asp Gly Leu Gly Gly
                85                  90                  95
Leu Ile Gly Ala Ala Glu Ala Asp Glu Thr Glu Ala Leu Ala Leu Ser
            100                 105                 110
Lys Asn Leu Leu Leu Cys Leu Leu Gly Leu Leu Leu Gly Leu Leu Gly
        115                 120                 125
Leu Leu Leu Gly Leu Leu Leu Thr Leu Leu Leu Val Leu Leu Val Arg
    130                 135                 140
Leu Leu Leu Phe Leu Leu Leu Gly Leu Gly Gly Leu Ala Gly Ser Asp
```

```
145                 150                 155                 160
Gly Val Thr His Asp Leu Arg Gly Gly Asp Gly Ala Glu Gly Ala Glu
                165                 170                 175
Glu Leu Ala Gln Leu Phe Val Ile Asn Val Ile Ser Glu Val Leu His
            180                 185                 190
Val Lys Ile Asp Thr Leu Val Leu Gly Gly Leu Leu Gln Ala Ser Gly
        195                 200                 205
Leu Val Leu Leu Ala Glu Leu Leu Leu Thr Phe Val Leu Leu Leu Gly
    210                 215                 220
Thr Ala Asn Val Lys Leu Leu Ala Leu Asp Leu Leu Val Val His Leu
225                 230                 235                 240
Val Asn Gly Gly Leu Arg Ala Ile Val Gly Gly Glu Val Asp Glu Ala
                245                 250                 255
Glu Thr Thr Ala Leu Thr Leu Leu Val Ala Ala Gln Ser Gly Gly Gly
            260                 265                 270
Asp Leu Thr Glu Leu Leu Glu His Leu Ala Glu Leu Leu Ile Gly Asp
        275                 280                 285
Phe Leu Val His Val Leu Asp Val Glu Leu Gly
    290                 295
```

<210> 26181
<211> 213
<212> PRT
<213> A.fumigatus

<400> 26181

```
Met Gln Tyr Met Gln Pro Ala Val Phe Tyr Gly Pro Gly Gln Gln Gly
1                   5                   10                  15
Phe Ile Pro Ala Gly Gln Arg Gly Gly Met Pro Phe Ala Pro Pro Ala
            20                  25                  30
Arg Tyr Gly Asp Gly His Pro Trp Arg Thr Pro Pro Ala Ser Thr Pro
        35                  40                  45
Val Pro Ser Leu Val Ser Arg Val Asp Val Ala Trp Ala Leu Thr Ser
    50                  55                  60
Arg Phe Phe Pro Thr Ser Lys Val Phe Pro Met Gly Ala Met Gln Gly
65                  70                  75                  80
Pro Gly Gly Ile Pro Asn Gly Met Gly Tyr Pro Gln Met Ala Gln Val
                85                  90                  95
Gln Phe Gly Arg Gly Ala Gly Gly Arg Gly Gln Val Pro Gly Met Pro
            100                 105                 110
Met Gly Gln Gly Ile Arg Gly Pro Gly Tyr Gly Gln Gly Arg Gly Gly
        115                 120                 125
Ala Pro Val Gln Gly Gly Leu Arg Pro Gln Gly Gly Arg Gly Gln Pro
    130                 135                 140
Ala Gly Gly Pro Pro Ala Ala Gly Arg Glu Glu Val Pro Ala Thr Gly
145                 150                 155                 160
Gly Leu Thr Ala Gln Thr Leu Ser Ala Val Pro Pro Pro Gln Gln Lys
                165                 170                 175
Gln Met Leu Gly Glu Ala Leu Tyr Pro Lys Ile Gln Ala Gln Gln Pro
            180                 185                 190
Glu Leu Ala Gly Lys Ile Thr Gly Met Leu Leu Glu Met Asp Asn Asn
        195                 200                 205
Glu Leu Leu Gly Leu
    210
```

<210> 26182

<211> 356
<212> PRT
<213> A.fumigatus

<400> 26182
Val Arg Ala Ser Leu Arg Arg Gly Arg Pro Ile Ser Thr Lys Phe Tyr
1 5 10 15
Ile Lys Asn Met Asn Gln Glu Val Thr Asp Glu Glu Phe Arg Lys Met
20 25 30
Phe Glu Lys Phe Gly Glu Ile Thr Ser Ala Thr Leu Ser Arg Asp Gln
35 40 45
Glu Gly Lys Ser Arg Gly Phe Gly Phe Val Asn Phe Ser Thr His Asp
50 55 60
Ser Ala Gln Ala Ala Val Asp Glu Met Asn Asp Lys Glu Ile Lys Gly
65 70 75 80
Gln Lys Leu Tyr Val Gly Arg Ala Gln Lys Lys His Glu Arg Glu Glu
85 90 95
Glu Leu Arg Lys Gln Tyr Glu Ala Ala Arg Leu Glu Lys Ala Ser Lys
100 105 110
Tyr Gln Gly Val Asn Leu Tyr Val Lys Asn Leu Thr Asp Asp Val Asp
115 120 125
Asp Glu Lys Leu Arg Glu Leu Phe Ser Pro Phe Gly Thr Ile Thr Ser
130 135 140
Ala Lys Val Met Arg Asp Thr Val Thr Thr Gly Glu Thr Ser Glu Ser
145 150 155 160
Glu Lys Glu Lys Glu Lys Glu Ser Asn Lys Glu Asn Glu Lys Glu Gly
165 170 175
Glu Glu Lys Thr Glu Glu Lys Pro Lys Glu Ser Glu Glu Glu Pro Lys
180 185 190
Lys Thr Glu Lys Lys Ile Leu Gly Lys Ser Lys Gly Phe Gly Phe Val
195 200 205
Cys Phe Ser Ser Pro Asp Glu Ala Ser Lys Ala Val Thr Glu Met Asn
210 215 220
Gln Arg Met Val Asn Gly Lys Pro Leu Tyr Val Ala Leu Ala Gln Arg
225 230 235 240
Lys Asp Val Arg Arg Ser Gln Leu Glu Ala Ser Ile Gln Ala Arg Asn
245 250 255
Thr Ile Arg Gln Gln Gln Ala Ala Ala Ala Ala Gly Met Pro Gln Pro
260 265 270
Val Cys Ile Pro Asp Phe Arg Ile Ile Lys Cys Trp Leu Val Lys Trp
275 280 285
Ser Thr Val Ala Asn Phe Lys Cys Ser Thr Cys Ser Pro Leu Ser Ser
290 295 300
Thr Val Pro Val Ser Lys Ala Ser Ser Leu Leu Val Ser Ala Ala Ala
305 310 315 320
Cys Leu Leu Leu Pro Gln Pro Gly Met Val Met Gly Ile Pro Gly Gly
325 330 335
Arg Pro Arg Pro Val Pro Arg Ser Leu Pro Trp Ser Ala Gly Trp Thr
340 345 350
Trp His Gly Pro
355

<210> 26183
<211> 84
<212> PRT
<213> A.fumigatus

<400> 26183
Glu Tyr Arg Val Ser Asp Arg Ser Tyr Pro Asp Tyr Arg Tyr Leu Trp
1 5 10 15
Phe Gly Leu Val Trp Phe Trp Phe Gly Phe Gly Phe Ile Ile Tyr Ser
20 25 30
Val Arg His Thr Arg Arg Met Val Trp Met Gly Arg Thr Ile Val Ile
35 40 45
Ile Gly Trp Pro Thr Thr Ile Trp Leu Lys Glu Ile Thr Ile Gly Ile
50 55 60
Glu Ile Val Arg Ile Asn Arg His Thr Gln Pro Val Leu Ser Arg Pro
65 70 75 80
Cys Ser Cys Ser

<210> 26184
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26184
His Asn Gly Val His Arg Gln Thr Pro Asp Pro Pro Ser Leu Pro Leu
1 5 10 15
Ile Pro Arg Leu Ser Arg Arg Asp Leu Leu Pro Thr Phe Asn Thr Pro
20 25 30
Gly Lys Leu Ala Ala Val Gln Pro Pro Lys Ile Glu Phe Gly Ala Phe
35 40 45
Arg Ala Leu Cys Leu Thr Ser Phe Lys Gly Gly Ile Ile Ala His Ile
50 55 60
Gly Leu Thr
65

<210> 26185
<211> 113
<212> PRT
<213> A.fumigatus

<400> 26185
Trp Pro Arg Met Glu Ser Arg Arg Ala Cys Ser Arg Lys Pro Cys Lys
1 5 10 15
Gln Gln Phe Trp Lys Thr Phe Cys Leu Ala Tyr Phe Lys Phe Gly Ala
20 25 30
Ala Phe Arg Pro Ser Ser Leu Ser Leu Glu Asp Thr His Gln Leu Arg
35 40 45
Gln Phe Ser Leu Phe Gly Lys Leu Phe Val Asp Asp Asp Ile Cys Arg
50 55 60
Ser Ser Phe Leu His Leu Phe Asp Val Gln Leu Val Val Arg Asp Ile
65 70 75 80
Leu Gly Asp Ile Val Met Ser Phe Ser Lys Leu Thr Asp Tyr Pro Thr
85 90 95
Leu Val Ala His Arg Ser Val Lys Leu Gln Ile Trp Gly Lys Met Leu
100 105 110
Ile

<210> 26186

<211> 193
<212> PRT
<213> A.fumigatus

<400> 26186
Pro Ser Cys Leu Pro Tyr Leu Ile Leu Thr Trp Trp Pro Arg Lys His
1 5 10 15
Gln Lys Arg His Asp Arg Pro Tyr Gly Cys Thr Phe Pro Lys Cys Ser
20 25 30
Lys Thr Phe Gly Ser Lys Ala Asp Trp Lys Arg His Glu Asn Ser Gln
35 40 45
His Tyr His Ile Gln Ser Trp Tyr Cys Thr Leu Cys Asp Pro Thr Lys
50 55 60
Gly Lys Arg Tyr Ala Arg Trp Tyr Tyr Arg Gln Glu Val Phe Val Gln
65 70 75 80
His Leu Lys Thr His His His Val Asp Asn Glu Gly Ala Arg Val Ala
85 90 95
Val Ala Asn Asn Leu Val Gly Glu Asn Gly Gln Ser Arg Phe Trp Cys
100 105 110
Gly Phe Cys Arg Glu Ile Ile Pro Leu His Ser Gln Gly Arg Glu Ala
115 120 125
Trp Asn Glu Arg Phe Asp His Ile Asp Phe Glu His Phe Arg Arg Gly
130 135 140
Gln Arg Ile Glu Asp Trp Val His Cys Cys His Ser Ser Asp Asp Gln
145 150 155 160
Glu Cys Glu Glu Ser Lys Gly Arg Asn Met Ala Ser Gly Ser Asp Glu
165 170 175
Ser Pro Phe Pro Thr Asp Phe Leu His Thr Arg Gln Asn Pro Leu Ile
180 185 190
Val

<210> 26187
<211> 78
<212> PRT
<213> A.fumigatus

<400> 26187
Tyr Gly Ser Arg Phe Gln Arg Leu Asn Val Leu Ile Asn Asn Ala Ser
1 5 10 15
Lys Gln Tyr Met Asn Lys Asn Phe Ala Asp Ile Asp Leu Asn Lys Val
20 25 30
Glu Asp Ile Phe Arg Thr Asn Ile Ile Gln Met Met Ala Leu Thr Lys
35 40 45
Tyr Ala Leu Pro Phe Leu Ser Lys Gly Asp Ser Leu Val Phe Leu Lys
50 55 60
Pro Gln His Ala Gln Leu Thr His Arg Thr Tyr Ile Asn Ser
65 70 75

<210> 26188
<211> 71
<212> PRT
<213> A.fumigatus

<400> 26188
Arg Ala Tyr Ser Ser Gly Ile Gly Arg Ala Val Ala Ile Leu Met Ala

```
1               5                   10                  15
Arg Glu Gly Ala Asp Ile Thr Ile Val His Phe Pro Glu Glu Ile Asp
            20                  25                  30
Asp Ala Glu Glu Thr Lys Arg Ala Ile Glu His Glu Lys Arg Ser Cys
        35                  40                  45
Leu Leu Val Ala Gly Asp Leu Arg Ala His Asn Met Cys Arg Arg Ala
    50                  55                  60
Val Glu Glu His Met Asn Lys
65                  70
```

<210> 26189
<211> 122
<212> PRT
<213> A.fumigatus

<400> 26189

```
Tyr Leu Arg Thr Arg Lys Gly Pro Thr Gln Pro Ser Asp Val Glu Ala
1               5                   10                  15
Gln Thr Lys Thr Ser Leu Val Tyr Ser Asn Leu Ala Ile Ser Ser Lys
            20                  25                  30
Trp Arg Leu Arg Trp Val Arg Lys Val Leu Phe Asn Arg Leu Arg His
        35                  40                  45
Arg Arg Val Asn Lys Asn Arg Gly Gln Cys Ser Val Pro Thr Gly Val
    50                  55                  60
Thr Leu Asn Asp Ser Gly Thr Lys Asp Leu Ile Ile Arg Leu Glu Lys
65                  70                  75                  80
His Met Val Pro Pro Ser Glu Ala Thr Lys Leu Glu Ser Lys Gly His
                85                  90                  95
Phe Val Glu Tyr Val Gly Ser Gly Lys Leu Lys Asp Lys Lys Val Leu
            100                 105                 110
Ile Thr Gly Gly Glu Tyr Val His Gln Phe
        115                 120
```

<210> 26190
<211> 97
<212> PRT
<213> A.fumigatus

<400> 26190

```
Ser Arg Arg Arg Met Cys Leu Arg Arg Cys Ala Pro Ser Gly Arg Arg
1               5                   10                  15
Lys Ala Thr Pro Ala Leu Phe Glu Gly Glu Gly Ala Tyr Leu Gly Pro
            20                  25                  30
Trp Ala Lys Tyr Gln Asp Asp Asp Arg Val Tyr Tyr Glu Glu Ala Ala
        35                  40                  45
Leu Ser Tyr Gln Glu Leu Gly Asn Asp Gln Glu Phe Val Gly Gly Ser
    50                  55                  60
Phe Leu Ile Leu Ser Leu Ser Asn Phe Leu Asn Pro Leu Pro Trp Phe
65                  70                  75                  80
Tyr Phe Asn Phe Leu Tyr Pro Pro Leu Phe Pro Thr Leu Leu Ser Ser
                85                  90                  95
Leu
```

<210> 26191
<211> 490

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (207)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26191

```
Val Thr Lys Thr Ser Arg Gly Arg His Val Leu Ser His Arg Tyr Ser
1               5                  10                  15
Phe Phe Val Phe Asn Asn Leu Met Val Phe Ser Leu Leu Ser Ala Ala
            20                  25                  30
Trp Thr Phe Val Ala Ala Val Val Asp Ala Lys Asn His Asp Glu Asp
        35                  40                  45
Ala Trp Gln Ala Ile Lys Asp Gly Ala Leu Tyr Gln Lys Val Met Ser
    50                  55                  60
Ala Leu Cys Gln Val Ser Pro Phe Trp Val Thr Trp Leu Leu Gln Arg
65                  70                  75                  80
Asn Leu Gly Ala Ala Ile Asp Leu Val Gln Leu Val Thr Leu Phe Trp
                85                  90                  95
Val Trp Phe Ser Lys Thr Phe Val Ala Pro Thr Pro Arg Gln Ala Ile
            100                 105                 110
Glu Trp Thr Ala Pro Pro Pro Phe Asp Tyr Ala Ser Tyr Tyr Asn Tyr
        115                 120                 125
Phe Leu Leu Tyr Ser Thr Val Ala Leu Cys Phe Ala Thr Met Gln Pro
    130                 135                 140
Ile Val Leu Pro Val Thr Ala Leu Tyr Phe Gly Leu Asp Ala Met Leu
145                 150                 155                 160
Lys Lys Tyr Leu Leu Leu Tyr Val Phe Val Thr Lys Thr Glu Ser Gly
                165                 170                 175
Gly Gln Phe Trp Arg Ala Leu Phe Asn Arg Leu Val Phe Ala Thr Ile
            180                 185                 190
Leu Ser Asn Val Val Ile Ala Leu Val Ala Lys Thr Lys Gly Xaa Trp
        195                 200                 205
Thr Met Val Tyr Cys Val Val Pro Leu Pro Phe Leu Met Leu Ala Phe
    210                 215                 220
Lys Phe Tyr Cys Met Lys Thr Phe Asp Asp Glu Ile Lys Tyr Tyr Asn
225                 230                 235                 240
Arg Ala Asn Leu Thr Asp Ala Glu Ala Phe Ala Val Asp Lys Ser Gly
                245                 250                 255
Arg Lys Gly Ser Asp Arg Leu Ser Ser Lys Phe Gly His Pro Ala Leu
            260                 265                 270
Tyr Lys Pro Leu Ile Thr Pro Met Val His Ala Lys Ala Ala Asp Ala
        275                 280                 285
Leu Lys Gln Ile Tyr Arg Gly Arg Leu Gly Ala Ser Asp Val His Gly
    290                 295                 300
Glu Tyr Ser Asp Ile Ala Met Asp Pro Met Ser Ala Thr Gln Pro Gly
305                 310                 315                 320
Lys Ala Met Asp Ala Gly Gln Ser Ala Pro Phe Glu Val Val Pro Glu
                325                 330                 335
Asn His Leu Asp Phe Ser Tyr Phe Lys Asp Arg Pro Asp Phe Arg Asp
            340                 345                 350
Glu Phe Gly Gly Gly Ile Tyr Gly Arg Pro Glu Asp Leu Met Thr Glu
        355                 360                 365
Arg Ser His Thr Pro Arg Ser His Leu Ala Glu Trp Ser Pro Ala Thr
```

```
    370                 375                 380
Ser Arg Ala Ser Ser Pro Thr Pro Ser Leu Pro Ser Leu Ser Gly Leu
385                 390                 395                 400
Lys Met Pro Glu Gly Tyr Asp Pro Ile Ala Asn Asp Ile His Pro Ala
                405                 410                 415
Phe Arg Thr Pro Leu Ser Arg Glu Glu Ser Ala Ala Met Gly Thr Gly
            420                 425                 430
Leu Tyr His His Arg Ser Ala Ser Glu Ser Gln Gln Leu Leu Ser Gln
        435                 440                 445
Ala Gln Val Pro Gly Thr Ser Glu Ile Thr Pro Ala Pro Leu Ser Arg
    450                 455                 460
Trp Arg Thr Gly Gly Tyr Gly Pro Val Glu Gln Asp Asp Pro Asn Phe
465                 470                 475                 480
Thr Ser Tyr Glu Gln Tyr Arg His Ala Arg
                485                 490
```

<210> 26192
<211> 212
<212> PRT
<213> A.fumigatus

<400> 26192

```
Thr Ile Pro Pro Arg Ser Asp Trp Tyr Ala Thr Ala Leu Pro Pro Thr
1               5                   10                  15
Pro Ser Asn Thr Lys Gln Ala Lys Ala Leu Pro Arg His Val Val Glu
            20                  25                  30
Arg Val His Asn Tyr Ala Ile Ser Leu Leu Glu Lys Glu Thr Lys Met
        35                  40                  45
Tyr Thr Glu Ala Gln Gln Ala Ser Ser Ser Ser Ser His Lys Phe Tyr
    50                  55                  60
Thr Thr Ile Met Ser Thr Gly Thr Leu Ser Asp Lys Ile Ser Ala Leu
65                  70                  75                  80
Thr Leu Ala Val Gln Glu Ser Pro Val His Asn Thr Lys Gln Leu Glu
                85                  90                  95
Asn Leu Ile Gly Leu Gly Arg Lys Arg Ser Arg Ala Gln Ala Val Glu
            100                 105                 110
Val Leu Arg Ser Leu Lys Asp Met Phe Ala Gln Gly Thr Leu Leu Pro
        115                 120                 125
Ser Asp Arg Arg Leu Lys Ser Phe Gly Asn Gln Pro Ala Leu Met Ala
    130                 135                 140
Ala Phe Gln Gly Ala Gly Ser Lys Trp Ser Glu Gly Asp Pro Leu Pro
145                 150                 155                 160
Gly Gly Leu Gln Asn Ser His Leu Ile Met Trp Ala Tyr Glu His Phe
                165                 170                 175
Leu Asn Asp Gln Tyr Phe Glu Val Leu Lys Ile Leu Glu Val Trp Cys
            180                 185                 190
Asn Asp Glu Ile Glu Phe Ser Arg Ser Arg Thr Arg Ser Tyr Val Tyr
        195                 200                 205
Glu Leu Leu Lys
    210
```

<210> 26193
<211> 286
<212> PRT
<213> A.fumigatus

<400> 26193
Ser Lys Ser Thr Thr Ser Val Leu Ser Val Trp Pro Phe His Asp Ala
1 5 10 15
Ser Met Ala Lys Gly Lys Gly Lys Ser Ser Ser Gly Ala Asn Ala Val
20 25 30
Pro Val Ala Asp Ser Lys Ser Ala Gly Glu Ser Leu Pro Gln Leu Glu
35 40 45
Glu Gly Ala Phe Ala Gly Leu Arg Gln Lys Ile Glu Gln Lys Leu Lys
50 55 60
Asp Glu Gln Ala Ala Lys Gln Asn Lys Ala Lys Asn Lys Lys Asn Gln
65 70 75 80
Asn Leu Asp Lys Ser Thr Pro Lys Lys Glu Lys Glu Ser Ala Pro Lys
85 90 95
Ser Glu Pro Lys Arg Glu Ala Lys Ser Asp Lys Asn Asn Lys Gly Lys
100 105 110
Lys Arg Asp Arg Asn Gly Glu Val Ile Ala Arg Glu Glu Lys Lys Leu
115 120 125
Gly Gly Asn Gln Asp Asp Thr Leu Arg Gln Glu Ile Leu Ala Leu Gly
130 135 140
Gly Thr Glu Glu Asp Phe Asp Leu Leu Ala Gly Val Glu Ser Glu Ser
145 150 155 160
Glu Val Glu Val Thr Glu Thr Gln Lys Lys Ser Lys Asn Lys Ser Asp
165 170 175
Glu Asp Ser Leu Arg Lys Glu Leu Ser Ala Met Leu Ala Ala Ala Gly
180 185 190
Gln Val Val Pro Asp Asp Ile Glu Asp Glu Asn Glu Val Ala Ala Ala
195 200 205
Phe Gly Ser Glu Gly Glu Asp Glu Glu Glu Lys Glu Glu Glu Glu Asp
210 215 220
Asp Thr Gln Gln Ser Glu Asp Gly Asp Gln Ser Glu Glu Glu Glu Glu
225 230 235 240
Ala Ser Ser Ala Pro Val Ser Arg Asn Val Glu Pro Pro Lys Lys Glu
245 250 255
Lys Ala Lys Glu Pro Ala Ala Glu Asn Ile Phe Pro Lys Glu Phe Ser
260 265 270
Lys Leu Val Ser Ile Ser Lys Phe Leu Leu Leu Glu Met Tyr
275 280 285

<210> 26194
<211> 257
<212> PRT
<213> A.fumigatus

<400> 26194
Thr Ser Lys Leu Gly Thr Ala Ala Thr Ala Arg Gly Ile Phe Tyr Pro
1 5 10 15
Ser Trp Ala Trp His Thr Ser Ile Thr Pro Ile Phe Pro Asn Ile Gly
20 25 30
Ser Arg Gln Gly Leu Ala Ser Ser Val Lys Leu Phe Asn Pro Lys Ser
35 40 45
Phe Thr Leu Thr Ile Gly Ser Cys Ile Phe Thr Phe Glu Gly Ile Gly
50 55 60
Leu Ile Leu Pro Ile Gln Ser Ser Met Lys His Pro Glu Lys Phe Asp
65 70 75 80
Gly Leu Leu Tyr Thr Val Met Ile Ile Ile Thr Val Leu Phe Thr Ala
85 90 95

```
Val Gly Ala Leu Ser Tyr Gly Ala Phe Gly Ser Asp Thr Lys Ile Glu
            100                 105                 110
Val Ile Asn Asn Leu Pro Gln Gly Asp Lys Phe Val Asn Ala Met Gln
        115                 120                 125
Phe Leu Tyr Ser Met Ala Ile Leu Ile Gly Val Pro Val Gln Leu Phe
    130                 135                 140
Pro Ala Val Arg Ile Met Glu Gly Lys Leu Phe Gly Gln Val Ser Gly
145                 150                 155                 160
Lys Arg Asp Pro Trp Ile Lys Trp Lys Lys Asn Gly Phe Arg Ser Leu
                165                 170                 175
Ile Val Leu Ala Cys Ala Val Met Ser Ala Val Gly Ala Ala Asp Leu
            180                 185                 190
Asp Lys Phe Val Ser Leu Ile Gly Ser Phe Ala Cys Val Pro Leu Val
        195                 200                 205
Tyr Ile Tyr Pro Ala Tyr Leu His Trp Lys Gly Val Ala Asp Ser Pro
    210                 215                 220
Leu Ala Lys Phe Gly Asp Leu Thr Met Val Val Leu Gly Phe Val Phe
225                 230                 235                 240
Met Ile Tyr Thr Thr Leu Ser Thr Ala Ala Val Trp Ile Gln Gly His
                245                 250                 255
Lys
```

<210> 26195
<211> 84
<212> PRT
<213> A.fumigatus

<400> 26195

```
Asn Gly Val Val Ser Leu Arg Leu Gly Ile Gly Val Val Val Val Val
1               5                   10                  15
Thr Cys Ile Ile Ala Leu Ile Ile Cys Ser Tyr Leu Val Ile Ile Tyr
            20                  25                  30
Tyr Asn Thr Ser Asn Phe Ile Leu Ser Ser Leu Ile Tyr Tyr Phe Asn
        35                  40                  45
Ile Met Thr Ser Leu Thr Phe Thr Tyr Ile Ala Tyr Leu Tyr Phe Tyr
    50                  55                  60
Leu Ile Phe Ile Thr Ser Ser Leu Tyr Lys Glu Leu Leu Leu Tyr Ile
65                  70                  75                  80
Ile Ser Arg Arg
```

<210> 26196
<211> 88
<212> PRT
<213> A.fumigatus

<400> 26196

```
Thr Ile Cys Val Ile Ser Ala Ala Glu Ser Pro Phe Gly Gly Val Arg
1               5                   10                  15
Glu Ser Gly Leu Gly Arg Glu Gly Ser Lys Tyr Gly Leu Gln Glu Tyr
            20                  25                  30
Gln Asn Ile Lys Ser Ala Thr Leu Gly Asn Leu Gln Ala Gly Trp Val
        35                  40                  45
Ser Pro Gly Leu Val Asp Leu Tyr Arg Phe Glu Arg Met Arg Leu Ser
    50                  55                  60
```

```
Pro Val Val Val Gly Thr Phe Trp Leu Gly Cys Phe Leu Leu Lys Pro
65                  70                  75                  80
Thr Gln Asn Val Pro Tyr Ala Arg
                85
```

<210> 26197
<211> 117
<212> PRT
<213> A.fumigatus

<400> 26197

```
Cys His Ile Leu Pro Ser Val Lys Ser Trp Arg Pro Arg His Asp Leu
1               5                   10                  15
His Ile Ser Ser Val Lys Pro His Thr Ile Ile Val Ser Cys Phe Gln
            20                  25                  30
Thr Phe Leu Ser Thr Leu Thr Ala Thr Ser His Leu Trp Leu Leu Gly
        35                  40                  45
Leu Pro Leu His Ala Leu Thr Ala Val Tyr Phe Val Ser Ile Ala Asp
    50                  55                  60
Asp Pro Leu Asp Ile Phe Phe Cys Val Tyr Ser Ala Cys Ser Ile Ser
65                  70                  75                  80
Leu His Trp Pro Asn Phe Phe Phe Thr Leu Glu Asn Asp Pro Tyr Pro
                85                  90                  95
Leu Ile Ala Gly Gln Ser Ile Ser Met Cys Asp Gly Asp Leu Thr Thr
            100                 105                 110
Leu Arg Thr Pro Thr
        115
```

<210> 26198
<211> 82
<212> PRT
<213> A.fumigatus

<400> 26198

```
Leu Leu Val Cys Phe Trp Asp Leu Met Pro His Ile Thr Phe Ser Glu
1               5                   10                  15
Lys Leu Ala Ala Thr Ala Arg Phe Ala Tyr Ile Lys Cys Glu Ala Ser
            20                  25                  30
Tyr Tyr His Cys Phe Met Leu Ser Asp Ile Phe Ile Tyr Phe Asp Arg
        35                  40                  45
Tyr Val Ser Pro Leu Ala Ser Gly Ser Ser Ser Ser Cys Ile Asp Gly
    50                  55                  60
Gly Leu Leu Arg Phe Asn Cys Arg Arg Pro Ser Arg Tyr Leu Leu Leu
65                  70                  75                  80
Cys Leu
```

<210> 26199
<211> 76
<212> PRT
<213> A.fumigatus

<400> 26199

```
Ala Ala Glu Ser Leu Tyr Thr Leu Ser Ala Leu Pro Leu Ala Tyr Ser
1               5                   10                  15
His Arg His Leu Arg His Glu Asp Asn Lys Phe Pro Leu Thr Ile Asn
```

```
            20                  25                  30
Thr Tyr Tyr Lys Trp Asn Met Ile Gly Lys Ile Glu Asn Val Glu Thr
        35                  40                  45
Leu Ser Phe Lys Leu Cys Asp Ile Ile Ser His Lys Gln Leu Tyr Leu
    50                  55                  60
Gln Asn Thr Pro Pro Pro Lys Met Val Tyr His Arg
65                  70                  75
```

<210> 26200
<211> 226
<212> PRT
<213> A.fumigatus

<400> 26200

```
Asn Ser Asp Glu Glu Asp Glu Ile Ile Phe Asp Val Glu Glu Glu Glu
1               5                   10                  15
Arg Val Thr Val Thr Pro Glu Ala Gly Ser Thr Ser Ser Ala Ser Glu
            20                  25                  30
Gly Asn Arg Asp Ala Val Ser Glu Glu Ala Arg Glu Gln Met His Ala
        35                  40                  45
Glu Ala Glu Gly Glu Ala Glu Phe Glu Met Asp Ile Ser Gln Thr Thr
    50                  55                  60
Ser Gln Asn Thr Ala Leu Thr Thr Ala Thr Pro Gln Pro Ser Ala Thr
65                  70                  75                  80
Ala Thr Ala Ala Ala Ala Thr Pro Thr Leu Arg His Arg His Gln Ser
                85                  90                  95
Gly Pro Thr Ala Val Thr Asp Ser Thr Ala Ile Ala Thr Gly Ser Ala
            100                 105                 110
Thr Ser Thr Ser Lys Leu Gln Glu Thr Glu Gln Thr Leu Asp Ala His
        115                 120                 125
Arg Ala Glu Gln Glu Asp Leu Thr Thr Ser Leu Leu Ser Leu Ala Thr
    130                 135                 140
Gln Leu Lys Ala Ser Ser Gln Ala Phe His Ser Ser Leu Glu Ala Glu
145                 150                 155                 160
Lys Ser Val Leu Ala Arg Ala Val Glu Gly Leu Asp Arg Thr Thr Thr
                165                 170                 175
Asn Met Gly Ala Ala Glu Lys Arg Met Gly Met Leu Arg Arg Met Thr
            180                 185                 190
Glu Gly Lys Gly Trp Leu Gly Arg Met Met Leu Tyr Ala Trp Ile Phe
        195                 200                 205
Gly Leu Trp Ile Val Ala Val Leu Ile Val Phe Leu Gly Pro Lys Leu
    210                 215                 220
Arg Leu
225
```

<210> 26201
<211> 72
<212> PRT
<213> A.fumigatus

<400> 26201

```
Val Leu Ile Val Ser Gly Asn Leu Leu Ser Ser Cys Arg Arg Cys Leu
1               5                   10                  15
Trp Glu Tyr Ala Arg Gly Arg Ala Asp Lys Val Tyr Lys Leu Ser Ala
            20                  25                  30
Ala Tyr Ser Ser Met Ala Cys Asp Leu Gln Pro Ser Asp Ser Ile Ser
```

```
        35                  40                  45
Val Ser Asn Phe Arg Ala Ser Ala Ser Ser Leu Ser Pro Thr Thr Phe
    50                  55                  60
Ser Ile Gly Gln Gly Ala Gln Lys
65                  70
```

<210> 26202
<211> 265
<212> PRT
<213> A.fumigatus

<400> 26202

```
Leu Lys Val Asp Ile Ser Phe Ser Pro Val Val Thr Val Leu Leu Val
1               5                   10                  15
Asn Ser Asp Asn Ala Ser Ala Ser Asp Leu Asn Ser Glu Phe Lys Thr
            20                  25                  30
Ala Gly Ile Val Asp Tyr Ala Tyr Thr Pro Ser Thr Ser Ala Ala Pro
        35                  40                  45
Ser Thr Trp Pro Thr Leu Gln Thr Leu Ile Asn Asn Gly Thr Arg Leu
    50                  55                  60
Met Val Phe Val Ala Ser Leu Asp Ser Asn Thr Asp Ala Pro Tyr Leu
65                  70                  75                  80
Met Asp Glu Phe Ser Phe Leu Phe Glu Asn Pro Tyr Asp Val Thr Ser
                85                  90                  95
Pro Ser Asn Phe Ser Cys Asn Pro Asp Arg Pro Ala Ser Val Lys Asn
            100                 105                 110
Asp Leu Ser Ala Ala Ile Ser Ser Asn Arg Leu Pro Leu Met Asn His
        115                 120                 125
Phe Leu Tyr Ala Thr Thr Ile Leu Asn Ile Glu Tyr Pro Asn Ser Thr
    130                 135                 140
Tyr Val Thr Thr Thr Asn Ala Pro Ser Gly Gly Val Gly Asn Leu Gly
145                 150                 155                 160
Asp Thr Ala Thr Lys Cys Gln Ser Ala Tyr Gly Arg Gln Pro Ala Phe
                165                 170                 175
Ile Leu Val Asp Phe Phe Asp Lys Gly Pro Ala Ile Asp Thr Val Asp
            180                 185                 190
Lys Leu Asn Asn Val Thr Ser Pro Val Gly Arg Thr Asn Leu Thr Thr
        195                 200                 205
Ser Ser Ser Ser Ser Thr Thr Gln Thr Ser Ser Ala Ser Thr Tyr Ser
    210                 215                 220
Asn Val Phe Lys Gly Leu Val Glu Leu Val Gln Gln Ala Lys Ser Gly
225                 230                 235                 240
Ser Asn Pro Ser Met Gly Asp Trp Val Trp Val Gly Gly Asp Trp Gly
                245                 250                 255
Ser Leu Leu Gly Gly Gly Ile Thr Met
            260                 265
```

<210> 26203
<211> 68
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (25),(47),(50),(60)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26203
Cys Asn Ile Arg Leu Arg Met Tyr Ser Leu Pro Gln Val Arg Asp Val
1 5 10 15
Ile Pro Lys Tyr Gly Ser Ala Glu Xaa Phe Ser Phe Leu Pro Phe Tyr
20 25 30
Phe Ile Phe Phe Ser Phe Pro Ser Arg Ala Glu Thr Glu Ile Xaa Val
35 40 45
Gly Xaa His Leu Leu Gly Tyr Arg Gly Lys Ser Xaa Phe Arg Arg Pro
50 55 60
Gln Pro Thr Ser
65

<210> 26204
<211> 374
<212> PRT
<213> A.fumigatus

<400> 26204
Ile Ser Ala Met Glu Ala Ile Tyr Gly Phe Asp Arg Met Ser Ile Asp
1 5 10 15
Glu Pro Ala Pro Glu Ala Pro Ala Glu Ala Pro Ala Glu Glu Pro Val
20 25 30
Val Ile Arg Pro Cys Ala Tyr Cys Ser Glu Asp Ile Glu Gly Glu Gln
35 40 45
Val Arg Pro Cys Lys Glu Cys Gly Cys Tyr Cys Cys Thr Glu Cys Ile
50 55 60
Arg Gln Ile Phe Leu Met Ala Cys Lys Asp Glu Ala Gln Met Pro Pro
65 70 75 80
Arg Cys Cys Gln Pro Ile Pro Leu Ala Val Ala Arg Arg His Leu Ser
85 90 95
Asp Glu Glu Ile Ala Leu Tyr Lys Leu Lys Phe Glu Glu Trp Arg Thr
100 105 110
Val Asn Arg Cys Tyr Cys Pro Val Ser Thr Cys Ser Gly Phe Ile Pro
115 120 125
Pro Ser Tyr Ile Gln Gln Gln Trp Lys Asn Leu Val Ala Ser Ser Gly
130 135 140
Phe Tyr Arg Gln Leu Ala Ala Ser Gly Ala Thr Pro Ser Leu Pro Val
145 150 155 160
Ser Pro Leu Tyr Ile Ser Phe Pro Val Leu Cys Pro Lys Cys Phe Ala
165 170 175
Gln Val Cys Trp Lys Cys Lys Lys Leu Tyr His His Gly Ser Thr Cys
180 185 190
Gln Ala Ser Asp Ile Asp Pro Glu Leu Ala Gln Thr Leu Gln Asn Leu
195 200 205
Gly Ile Lys Arg Cys Pro Lys Cys Arg Ala Ala Val Arg Arg Met Leu
210 215 220
Gly Cys Arg His Met Gln Cys Arg Cys Gly Ala Gln Trp Cys Trp Tyr
225 230 235 240
Cys Cys Arg Ala Ile Glu Val Cys Lys Ala Asn Ile Cys Asp Lys Gly
245 250 255
Arg Glu Ala Glu Ile Asp Val His Glu Asp Asn Ala Glu Glu Ile Ala
260 265 270
Thr Gln Val Asp Glu Gly Glu Ala Lys Glu Glu Glu Asp Glu Asp Glu
275 280 285
Asp Ala Glu Gly Asp Ser Asp Asp Glu Ala Tyr Trp Ser Arg Tyr Gly

```
    290                 295                 300
Gly Trp Ile Ser Asp Pro Asp Glu Thr Asp Asp Glu Gln Asn Asp Gln
305                 310                 315                 320
Ala Ala Tyr Glu Asp Asp Asp Asn Lys Asn Gln Ala Pro Glu Met Pro
                325                 330                 335
Leu Ala Arg Pro Val Glu His Asn His Phe Ala Ala Glu Ala Gly Ser
            340                 345                 350
Asp Val Asp Leu Asp Ala Arg Ser Asp Trp Glu Glu Val Phe Lys Arg
        355                 360                 365
Trp Gln Arg Arg Ile Asn
    370
```

<210> 26205
<211> 136
<212> PRT
<213> A.fumigatus

<400> 26205

```
Ala Glu Ser Ser Thr Glu Asp Gln Thr Leu Pro Ala Glu Trp Asn Ala
1               5                   10                  15
Asn Asp Thr His Ser Phe Arg Tyr Ala His Ser Gln Ser Ser Met Gln
            20                  25                  30
Phe Leu Leu Lys Ile Gly Arg Leu Gly Asn Asn Ala Val Val Leu Ala
        35                  40                  45
Leu Ala Leu Gly Asp Asp Lys Thr Ser Ser Phe Asp Leu Leu Val Lys
    50                  55                  60
Asp Tyr Ile Ser Asp Ser Ala Phe Pro Ile Thr Ser Ala Asp Asp Leu
65                  70                  75                  80
Ala Arg Thr Leu Arg Asp Val Phe Ile Ser Glu Ala Arg Leu Asn Asp
                85                  90                  95
Leu Ile Gly Leu Phe Lys Val Asn Val Ile Leu Lys Leu Ala Pro Gly
            100                 105                 110
Leu Tyr Lys Glu Gly Tyr Glu Asp Thr Thr Gln Ala Leu Arg Arg Lys
        115                 120                 125
Thr Thr Arg Lys Ala Thr Thr Thr
    130                 135
```

<210> 26206
<211> 183
<212> PRT
<213> A.fumigatus

<400> 26206

```
Leu Leu Val Cys Thr Arg Lys Asp Thr Lys Thr Pro Leu Lys Pro Tyr
1               5                   10                  15
Glu Glu Arg Gln Gln Glu Arg Pro Pro Gln His Asp Pro Leu Arg Asp
            20                  25                  30
Asp Thr Leu Pro Gln Pro Ala Arg Pro Tyr Pro Phe Asp Asp Pro Leu
        35                  40                  45
Ala Ala Gly Pro Arg Arg Pro Ala Pro Pro Gly Asp Phe Ala Pro Pro
    50                  55                  60
Gly Phe Glu Asp Glu Tyr Glu Ile Tyr Arg Pro Pro Arg Gly Tyr Pro
65                  70                  75                  80
Gln Gly Asn Gly Gly Arg Asn Pro Leu Ser Ile Gly Asp Arg Asp Leu
                85                  90                  95
Tyr Pro Ala Gly Leu Gly Pro Asn Asp Pro Ile Arg Gly Gly Val Gly
```

```
            100                 105                 110
Pro Gly Leu Gly Gly Gly Gly Gly Gly Gly Met His Pro Thr Phe Asp
        115                 120                 125
Asp Pro Leu Phe Gly Gly Arg Arg Asp Asp Gly Tyr Asn Pro Gln Ala
    130                 135                 140
Pro Pro Gly Ser Arg Tyr Asp Pro Val Gly Pro Gly Gly Ala Pro Ser
145                 150                 155                 160
Gly Arg Gly Arg Gly Pro Phe Gly Gly Gly Ser Gly Gly Gly Phe Gly
                165                 170                 175
Gly Phe Gly Gly Asp Ile Ile
            180
```

<210> 26207
<211> 257
<212> PRT
<213> A.fumigatus

<400> 26207

```
Ala Thr Gly Pro Tyr Pro Ala Leu Asp Leu Ile Ser Leu Tyr Gly Leu
1               5                   10                  15
Gly Pro Val Ala Lys Ser Val Ala Arg Met Asp Pro Val Thr Gly Glu
            20                  25                  30
Lys Ile Asn Arg Leu Arg Lys Ser Tyr Glu Gly Lys Leu Lys Gly Leu
        35                  40                  45
Gly Leu Ala Gly Arg Asn Lys Pro Val Lys His Asp Pro Ser Ala Pro
    50                  55                  60
Gly Gly Leu Arg His Leu Thr Met Trp Pro Glu Glu Glu Trp His Asn
65                  70                  75                  80
Gln Lys Val His Gly Lys Glu Ile Lys Val Ala Asp Val Asp Ser Ala
                85                  90                  95
Ser His Asn Leu Gln Met Lys Ala Met His Met Glu Pro Gly Thr Val
            100                 105                 110
Pro Asn Asn Glu Tyr Trp Glu Asp Val Leu Gly His Asp Lys Pro Ser
        115                 120                 125
Lys His Ala Gly His Gly Asp Gly Lys Lys Ala Ala Thr Leu Pro Asn
    130                 135                 140
Thr Ala Arg Ser Pro Ser Gln Ala Asn Glu Thr Pro Leu Pro Thr Glu
145                 150                 155                 160
Pro Glu Arg Ala Arg Pro Ser Arg Gly Arg Lys Arg His Tyr Asp Asp
                165                 170                 175
Asn Ser Phe Val Gly Tyr Gly Glu Gly Phe Ala Asp Asp Asp Asp Asp
            180                 185                 190
Ala Ala Phe Tyr Ser Asn Ser Glu Gly Met Gly Lys Lys Lys Arg Lys
        195                 200                 205
Lys Val Arg Ser His Ala Ile Trp Asp Gly Ser Trp Thr Arg Leu Ile
    210                 215                 220
Val Leu Val Phe Leu Lys Glu His Val Ser Lys Val Pro Thr Pro Leu
225                 230                 235                 240
Pro Asp Arg Gly Gly Ser Tyr Gly Val Gly Met Phe Gly Ile Gly Ala
                245                 250                 255
Arg
```

<210> 26208
<211> 75
<212> PRT

<213> A.fumigatus

<400> 26208
Asn Ser Val Lys Gln Trp Ile Ser Thr Asn Tyr Ala Ser Met Thr Gly
1 5 10 15
Ala Ala Ala Thr Ala Thr Gly Asn Ser Gly Ser Gly Ser Gly Ser Lys
20 25 30
Gly Ser Asp Ser Gln Gly Pro Ala Ser Ser Ser Ser Ser Gln Gly Ala
35 40 45
Ala Ala Ala Pro Ala Ala Thr Gly Ala Ile Ala Ala Ser Ile Val Gly
50 55 60
Ala Ala Gly Val Leu Gly Ile Ala Leu Ala Leu
65 70 75

<210> 26209
<211> 234
<212> PRT
<213> A.fumigatus

<400> 26209
Leu Val Ile Phe Thr Val Ser Arg Ser Gln Leu Ala Phe Val Ser Cys
1 5 10 15
Lys Gly Leu Glu Ser Pro Ser Asp Ser Asp Val Ser Ala Thr Asn Cys
20 25 30
Leu His Tyr Leu Pro Thr Val Tyr Phe Ser Ser Ser Tyr Phe Gly Pro
35 40 45
Ser Gly Ala Ser Asp Pro Arg Pro His Ile Pro Val Glu Leu Ile Ile
50 55 60
Tyr Pro Leu Lys Trp Arg Phe Tyr Phe Leu Asn Lys Ser Phe Phe Arg
65 70 75 80
Pro Lys Glu Asn Asn Pro Asp Gln Ile His Met Val Arg Leu Asn Ala
85 90 95
Ala Met Tyr Pro Ser Ile Tyr Asp Ala Asn Gln Ala Pro Gly Lys Pro
100 105 110
Leu Leu Ser Ala Ser Asp Ser Asp Thr Leu Asp Ser Asp Met Asp Gln
115 120 125
Asp Ile Glu Ala Gln Arg Ser Tyr Arg Thr Phe His Thr Pro Arg Ala
130 135 140
Asp Ser Asp Ser Val Ser Ser Gly Ser Ser Thr Pro Arg Ser Arg Ile
145 150 155 160
Asn Pro Arg Ile Ile Ser Asp Ala Ile Leu Gly Leu Ser Asp Gly Leu
165 170 175
Thr Val Pro Phe Ala Leu Ser Ala Gly Leu Ser Ala Leu Gly Asn Thr
180 185 190
Lys Val Val Val Leu Gly Gly Leu Ala Glu Leu Ala Ala Gly Ala Ile
195 200 205
Ser Met Gly Leu Gly Gly Tyr Val Gly Ala Lys Ser Glu Ala Tyr Val
210 215 220
Phe Pro Leu Thr Ser Leu Leu Tyr Glu Gly
225 230

<210> 26210
<211> 341
<212> PRT
<213> A.fumigatus

<400> 26210
Arg Arg Ile Gly Arg Asn Trp Gly Gly Gly Ser Ala Phe Gly Ala Val
1 5 10 15
Val Gln Gly Ala Gly Pro Val Arg Ile Ile Leu Gly Gly Ser Pro Arg
20 25 30
Glu Ala Arg Cys Ala Ser Ser Gln Val Thr Ala Cys Cys Thr Thr Gly
35 40 45
Thr Ile Phe Met Arg Thr Gly Glu Pro Met Glu Tyr Asp Pro Asn Gly
50 55 60
Gln Leu Ala Trp Leu Ile Ser Glu Leu Gln Ala Gly Glu Thr Ala Gly
65 70 75 80
Gln Arg Val Trp Leu Ile Ala His Ile Pro Thr Gly Gly Thr Asp Thr
85 90 95
Leu His Asp Tyr Ser His Tyr Leu Asp Gln Ile Ile Gln Arg Tyr Asp
100 105 110
Ala Thr Ile Ala Ala Leu Leu Phe Gly His Thr His Thr Asp Val Leu
115 120 125
Gln Val Ser Tyr Ala Asp Pro Ala His Pro Ser Ala Asp Ser Ala Ser
130 135 140
Ala Val Gly Tyr Ile Thr Pro Ser Leu Thr Pro Thr Ser Gly Pro Pro
145 150 155 160
Ala Phe Arg Ile Tyr Asp Ile Asp Pro Val Thr Phe Ala Val Leu Asp
165 170 175
Tyr Thr Val Tyr Thr Ala Asn Val Ser Thr Glu Ala Thr Pro Gln Trp
180 185 190
Thr Lys Tyr Tyr Ser Ala Lys Glu Ser Tyr Gly Ser Leu Ile Thr Pro
195 200 205
Pro Val Thr Asp Pro Thr Ala Glu Leu Thr Pro Ala Phe Trp His Asn
210 215 220
Val Thr Val Leu Met Glu Thr Asp Asn Ser Val Phe Gln Ala Trp Trp
225 230 235 240
Ala Arg Thr Thr Arg Gly Phe Lys Val Arg Glu Cys Asn Ala Gln Cys
245 250 255
Ala Arg Asp Gln Ile Cys Ser Leu Arg Ala Ala Asp Ala Gln Tyr Gly
260 265 270
Cys Val Arg Gly Thr Leu Ser Ile Thr Lys Arg Asp Gly Leu Asn Leu
275 280 285
Ala Gly Val Ala Pro Ala Ser Ala Ser Gly Pro Gln Val His Val His
290 295 300
Ser Thr Arg Pro Gln Cys Glu Glu Gly Gly Leu Ala Arg Val Leu Ala
305 310 315 320
Ala Val Ile Arg Glu Thr Asp Asp Leu Gln Gly Leu Leu Leu Gln Arg
325 330 335
Ala Glu Leu Tyr Ile
340

<210> 26211
<211> 73
<212> PRT
<213> A.fumigatus

<400> 26211
Tyr Gly Ala Ala Pro Ser Ser Pro Val Val Lys Thr Pro Leu Ser Pro
1 5 10 15
Phe Pro Phe Phe Pro Pro Thr Ile Pro Leu Arg Met Leu Pro Val Thr
20 25 30

```
Gln Met Gln Arg Ala Leu Leu Pro Leu Asn Leu Lys Leu Lys Thr Arg
        35                  40                  45
Thr Glu Ile Gln Asp Ala Asp Leu Ala Ile Thr Glu Glu Glu Thr Pro
    50                  55                  60
Pro Ser Arg Arg Val Leu Val Arg Val
65                  70
```

<210> 26212
<211> 68
<212> PRT
<213> A.fumigatus

<400> 26212

```
Ile Arg Thr Gln Asn Gly His Ile Arg Lys Gly Asn Ile Val Ser Glu
1               5                   10                  15
Asn Leu Ile Leu Asn Gln Glu Val Lys Ala Pro Gln Thr Ile Ser Pro
            20                  25                  30
Leu Phe Asn Asp Leu Asp Gly Arg Gln Gln Gly Ser Tyr Thr Cys Ile
        35                  40                  45
Trp Asp Val His Phe Asn Ile Val Ala Cys Gln Gln Lys Gln Thr Thr
    50                  55                  60
Met Leu Arg Leu
65
```

<210> 26213
<211> 90
<212> PRT
<213> A.fumigatus

<400> 26213

```
Thr Thr Lys Lys Gln Tyr Glu Ala Asp Val Ser Phe Gln Pro His Asn
1               5                   10                  15
Ile Ala Ala Thr Arg Arg Ser Pro Ser Ile Leu Asp Gln Glu Arg Phe
            20                  25                  30
Gln Thr Ser Ala Gly Glu Met Leu Thr Ser Ala Ile Leu Val Pro Ser
        35                  40                  45
Leu Leu Thr Ala Val Pro Ala Ser Ser Ala Ser Ser Leu Leu Arg Tyr
    50                  55                  60
Asp Ala Thr Leu Asp Lys Gly Arg Ile Glu Cys Val Tyr Pro Ile Ser
65                  70                  75                  80
Gly Gln Tyr Ala Leu Met Gln Arg Val Leu
                85                  90
```

<210> 26214
<211> 83
<212> PRT
<213> A.fumigatus

<400> 26214

```
Thr Arg Gln Leu His Gln Asn Leu Ala Arg Thr Asn Gly Thr Trp Met
1               5                   10                  15
Thr Arg Gly Arg Ala Tyr Ile Val Leu Arg Asn Val Tyr Ile Ser Phe
            20                  25                  30
His Ala Gly Phe His Phe Tyr Ser Asn Leu Trp Arg Met Gly Thr Leu
        35                  40                  45
Asn Val Asp Gln Asn Ala Arg Val Ala Ile Ile Lys Gly Gly Arg Ser
```

```
    50                  55                  60
Val Asp Ser Leu Thr Pro Ser Asp Tyr Ser Val Trp Asp Val Thr Gly
65                  70                  75                  80
Arg Gln Ala
```

<210> 26215
<211> 64
<212> PRT
<213> A.fumigatus

<400> 26215

```
Thr Leu Glu Met Gly Leu Asp Leu Leu Gly Tyr Gln Lys Ile His Trp
1               5                   10                  15
Trp Gly Glu Ile Glu Gly Val Phe Met Glu Tyr Ile Phe Leu Leu Arg
            20                  25                  30
Gly Leu Gly Gly Thr Trp Lys Gln Gly Thr Ser Tyr Thr Glu Ala Gly
        35                  40                  45
Tyr Phe Pro Gln Asn Ile Val Ser Lys Ser Leu Val His Ala Leu Tyr
    50                  55                  60
```

<210> 26216
<211> 248
<212> PRT
<213> A.fumigatus

<400> 26216

```
Pro Thr Ser Gly Lys Leu Gln Ala Gly Thr Lys Ser Thr Ser Glu Glu
1               5                   10                  15
Ala Asn Gln Pro Gln His Gly Cys Arg Pro Cys Leu Asp Ser Arg Ser
            20                  25                  30
Pro Ala Arg Gln Ser Pro Ile Ser Ile Ala Pro Val Arg Thr Ser Val
        35                  40                  45
Leu Gly Gly Lys Leu Ala Asp Ala Ser Thr Asn Glu Lys Ile Lys Met
    50                  55                  60
Lys Thr Glu Asn Ser Ser Ser Ala Ser Ser Ser Val Ala Val Ser Ser
65                  70                  75                  80
Ser Cys Ala Pro Pro Ser Ser Ala Ala Ser Ser Pro Cys Glu Ala Ser
                85                  90                  95
Thr Thr Ser Thr Pro Ala Pro Ser Gly Pro Ser Ala Lys Pro Tyr Val
            100                 105                 110
Pro Ser Pro Leu Pro Ile Lys Met Phe Ala Pro Leu Thr Ala His His
        115                 120                 125
Gln Phe Val Ala Leu Ile Ala Val Asn Ala Pro Cys Ile Lys Pro Leu
    130                 135                 140
Phe Ser Ser Ser Val Trp Leu Gly Ser Ser Lys Asp Pro Ser Ser Lys
145                 150                 155                 160
Asn Ala His Arg Tyr Gly Glu Ser Gly Ser Tyr Ser Leu Ser Val Phe
                165                 170                 175
Gly Lys Ser Lys Pro Asp Pro Leu Val Ser His Thr Ser Lys Leu Gly
            180                 185                 190
Asp His Ala Ser Asp Glu Phe Ile Leu Arg Glu Gln Arg Glu Asn Gly
        195                 200                 205
Pro Thr Tyr Val Asn Asp Val Ser Gly Gly His Gly Gln His Thr Asp
    210                 215                 220
Glu Glu Ser Gly Lys Phe Ser Gly Gly Gly Ile Gln Val Thr Thr Met
```

225 230 235 240
Tyr Glu Val Arg Thr Gly Arg Ala
245

<210> 26217
<211> 125
<212> PRT
<213> A.fumigatus

<400> 26217
Thr Gly Gln His Gly Ala Asn Ile Gly Leu Thr Asn Ala Gln Arg Ala
1 5 10 15
Ala Met Thr Pro Asp Gln Val Lys Ser Leu Val Ile Gly Ser Lys Cys
20 25 30
Leu Leu Ala Gly Trp Val Cys Tyr Val Thr Leu Ile Trp Cys Leu Lys
35 40 45
Ala Cys Met Leu Phe Phe Tyr Asn Arg Leu Thr Tyr Val Phe Pro Val
50 55 60
Asn Pro Ser Ala Pro Val Leu Thr Met Ile Asp Trp Val Ser Cys Thr
65 70 75 80
Arg Ser Ser Ser Arg Ser Asn Ala Val Leu Cys Ala Leu Ala Tyr Val
85 90 95
Ala Val Ile Phe Thr Ile Phe Phe Leu Gly Leu Pro Ile Gln Lys His
100 105 110
Trp Gln Ile Tyr Pro Asp Pro Gly Gly Lys Arg His Cys
115 120 125

<210> 26218
<211> 423
<212> PRT
<213> A.fumigatus

<400> 26218
Leu Val Cys Thr Asn Leu Gln Ile Lys Thr Ser Arg Glu Phe Trp Gly
1 5 10 15
Arg Val Glu Arg Ile Ile Leu Met Val Ala Leu Thr Val Ser Ser Ser
20 25 30
His Thr Lys His Ala Leu Glu Asp Leu His Pro Asn Ile Ala Val Phe
35 40 45
Arg His Pro Asp His Leu Pro Asp Arg Gln Gly Leu Ala Ser Ser Ile
50 55 60
Thr Ser Ser Leu Gln Asn Leu Thr Leu Asp Thr Val Ser Leu Ala Lys
65 70 75 80
Met Ser Gly Asp Ala Leu Lys Gly Leu Tyr Gly Met Ser Asp Asp Val
85 90 95
Ile Leu Tyr Trp Ala His His Glu Lys Leu Cys Leu Ile Asp Gly Arg
100 105 110
Ile Ala Phe Met Gly Gly Leu Asp Met Cys Phe Gly Arg Trp Asp Thr
115 120 125
Tyr Gln His Ala Ile Ala Asp Val His Pro Thr Asn Leu Asp Asp Ile
130 135 140
Val Phe Pro Gly Gln Asp Tyr Asn Asn Ala Arg Val Leu Asp Phe Gln
145 150 155 160
Asp Val Val His Trp Glu Lys Asn Gln Leu Asp Arg Lys Arg Thr Ser
165 170 175
Arg Met Gly Trp Ser Asp Ile Ser Val Ser Leu His Gly Pro Val Val

```
            180                 185                 190
Glu Asp Leu Arg Arg His Phe Val Glu Arg Trp Asn Phe Ile Tyr Asp
        195                 200                 205
Thr Lys Tyr Gln Val Arg Lys Asp Ala Arg Tyr Ala Arg Leu Val Leu
    210                 215                 220
Pro Gly Arg Pro Gly Ser Pro Ser Pro Gln Gln Tyr Asn Ala Gln Gln
225                 230                 235                 240
Ser Ala Pro His His Gln Pro Arg Pro Gln Gln Gln Ala Pro Gly Leu
                245                 250                 255
Ser Gly Tyr Pro Ser Gln Pro Ser Val Gly Gly Gln Gly Thr Pro Gly
            260                 265                 270
Tyr Gln Ser Ser Pro Ser Tyr Ala Gly Tyr Ser Pro Ser Gln Ser Gly
        275                 280                 285
Gly His Gln Ser Thr Tyr Thr Tyr Thr Gly Asp Ser Phe Pro Pro Pro
    290                 295                 300
Pro Pro Gly Pro Pro Pro Ser Gln His Asn Pro Ala Pro Pro Ser Gln
305                 310                 315                 320
Phe Gln Ala Gln Gly His Gly Gln Ala Pro Tyr Phe Pro Pro Pro Pro
                325                 330                 335
Thr Gln Glu Gly Ser His Ser Gln Thr Arg Gly Phe Asp Asp Ser Tyr
            340                 345                 350
Glu Leu Ala Arg Gly Gln Gly Asp Ser Asp Arg Gly Ser Gly Phe Ile
        355                 360                 365
Pro Arg Arg Leu Lys Asp Glu Leu Thr Gly Tyr Gly Asn Ile Ile Arg
    370                 375                 380
Gly Gln Leu Ala Gly Thr Val Gln Pro Tyr Gln Asp Arg Leu Thr Ser
385                 390                 395                 400
Phe Gly Arg His Ser Ser Gln Pro Arg Lys Gln His Val Leu Ser Asp
                405                 410                 415
Cys Gly Ala Leu Gly Arg Ile
            420
```

<210> 26219
<211> 69
<212> PRT
<213> A.fumigatus

<400> 26219

```
Leu Phe Val Glu Val Ser Gly Arg Val Asn Gln Gln Met Asn Tyr Asp
1               5                   10                  15
Arg Cys Tyr Ser Val Asp Cys Tyr Ala Thr Gln Glu Lys Gly Gly Lys
            20                  25                  30
Ile Lys Ala Ser Lys Asp Leu Leu Cys Phe Ala Gln Ile Leu Ile Asn
        35                  40                  45
Asp Phe Thr Ser Ser Leu Pro Asn Gly Thr Lys Thr Phe Phe Ser Thr
    50                  55                  60
Asp Gly Arg Glu Ile
65
```

<210> 26220
<211> 148
<212> PRT
<213> A.fumigatus

<400> 26220

```
Leu Phe Tyr Gln Ala Ser Trp Val Arg His Leu Ser Lys Asp Tyr Pro
```

```
1               5                   10                  15
Thr Leu Ala Phe His Ala Ser Ile Asn Asn Ser Phe Gly Lys Gly Ser
            20                  25                  30
Leu Ile Gln Leu Leu Arg Gln Phe Ser Ser Leu His Ser Asp Arg Lys
        35                  40                  45
Gln Ile Ser Val Gly Leu Ile Gly Tyr Pro Asn Thr Gly Lys Ser Ser
    50                  55                  60
Ile Ile Asn Thr Leu Arg Lys Lys Lys Val Cys Asn Val Ala Pro Ile
65                  70                  75                  80
Pro Gly Glu Thr Lys Val Trp Gln Tyr Val Thr Leu Met Lys Arg Ile
                85                  90                  95
Tyr Leu Ile Asp Cys Pro Gly Val Val Pro Pro Asn Gln Asn Asp Thr
            100                 105                 110
Glu Gln Asp Ile Leu Leu Arg Gly Val Val Arg Ile Glu Asn Val His
        115                 120                 125
Asn Pro Glu His Ser Arg Leu His His Gly Ala Gly Arg Ser Asp Gly
    130                 135                 140
Ser Ala Phe Asn
145
```

<210> 26221
<211> 281
<212> PRT
<213> A.fumigatus

<400> 26221

```
Leu Asn Gly Arg Asp Ala Lys Lys Val Lys His Leu Asn Met Phe Lys
1               5                   10                  15
Asp Gly Lys Pro Arg Arg Asp Ala Ala Gly Asn Ile Thr Val Ala Ala
            20                  25                  30
Ser Tyr Gln Ser Arg Asp Ala Pro Thr Ala Arg Ile Glu Pro Asn Arg
        35                  40                  45
Lys Trp Phe Gly Asp Thr Arg Val Ile Ser Gln Glu Ala Leu Thr Ser
    50                  55                  60
Phe Arg Glu Ala Val Ala Glu Arg Ala Ser Asp Pro Tyr Ser Val Leu
65                  70                  75                  80
Leu Lys Thr Asn Lys Leu Pro Met Ser Leu Ile Arg Asp Asn Val His
                85                  90                  95
Thr Val Asn Gly Leu Lys Gln His Glu Ala Lys Met Ala Ile Glu Thr
            100                 105                 110
Ala Pro Phe Ser Asp Thr Phe Gly Pro Lys Ala Gln Arg Lys Arg Val
        115                 120                 125
Lys Leu Gly Val Ala Ser Leu Glu Asp Leu Ala Gly Gln Thr Ala Lys
    130                 135                 140
Met His Asp Ala Tyr Val Glu Lys Thr Asp Gln Ala Thr Asp Glu Asp
145                 150                 155                 160
Gly Thr Ile Ile Ala Ser Gly Asp Val Ser Thr Asp Asp Lys Thr Phe
                165                 170                 175
Ser Glu Ala Pro Thr Ala Arg Glu Ser Val Phe Ser Lys Gly Gln Ser
            180                 185                 190
Lys Arg Ile Trp Asn Glu Leu Tyr Lys Val Ile Asp Ser Ser Asp Val
        195                 200                 205
Val Ile His Val Leu Asp Ala Arg Asp Pro Glu Gly Thr Arg Cys Arg
    210                 215                 220
Ser Val Glu Lys Tyr Ile Arg Glu Glu Ala Pro His Lys His Leu Ile
225                 230                 235                 240
```

```
Phe Val Leu Asn Lys Cys Asp Leu Val Pro Thr Ser Val Ala Val Ser
                245                 250                 255
Lys Leu Ser Val His Ser Phe Leu Pro Ser Asn Leu Leu His Asn Thr
            260                 265                 270
Ile Ile Thr Leu His Leu His Ala Pro
        275                 280
```

<210> 26222
<211> 85
<212> PRT
<213> A.fumigatus

```
<400> 26222
Arg Ser Gly Leu Met Leu Glu Leu Gly Pro Cys Arg Ile Lys Thr Gly
1               5                   10                  15
Gly Asn Leu Thr Glu Arg Asn Pro Tyr Ser Trp Thr Arg Asn Ser Ser
            20                  25                  30
Met Ile Phe Val Asp Gln Pro Val Gly Thr Gly Leu Ser Tyr Val Asp
        35                  40                  45
Ser Cys Gln Asp Ile Pro Thr Thr Ser Glu Ile Ala Ala Glu Asp Met
    50                  55                  60
Tyr Ile Phe Leu Gln Ile Phe Met Thr Glu Ser Phe Leu Asn Ala Asp
65                  70                  75                  80
Ile Phe Pro Phe Thr
                85
```

<210> 26223
<211> 375
<212> PRT
<213> A.fumigatus

```
<400> 26223
Ser Asn Arg Gly Cys Gly Gly Leu Val Val Lys Ile Leu Phe Asn His
1               5                   10                  15
Asp Ser Ala Ser Phe Ser Thr Ile Trp Met Arg Asn Thr Ser Arg Val
            20                  25                  30
Ala Asp Ser Leu Pro His Pro Gln Ala Arg Ala Leu Gln Arg Pro Ser
        35                  40                  45
Gly Ser Thr Ile Ala Ser Leu Cys Lys Thr Tyr Ser Leu Arg His Glu
    50                  55                  60
Thr Ile Glu Leu Asp Ala Gly Ser Ala Phe Pro Leu Ala Thr Leu His
65                  70                  75                  80
Phe Ile Asp Cys Asp Pro Thr Ala Arg Ser Pro Ser Gly Asn Val Leu
                85                  90                  95
Leu Tyr Phe His Gly Gly Gly Tyr Ile Thr Pro Leu Ser Thr Gly His
            100                 105                 110
Phe Lys Phe Ala Arg Ala Ala Ala Gln Arg Leu Thr Ala Lys Cys Val
        115                 120                 125
Leu Leu Glu Tyr Thr Leu Ala Pro Glu Leu Lys Tyr Pro Gly Gln Leu
    130                 135                 140
Ala Gln Ala Ala Ala Ala Leu Arg Tyr Leu Leu Gln His His Asp Ala
145                 150                 155                 160
Ala Glu Val Thr Ile Ala Gly Asp Ser Ala Gly Gly Asn Leu Ala Leu
                165                 170                 175
Gly Val Leu Ala His Leu Arg Asp Pro His Pro Leu Val Arg Pro Val
            180                 185                 190
```

```
Phe Glu Gly Asp Leu Arg Gln Gln Glu Gln Lys Leu Cys Ala Val Leu
        195                 200                 205
Cys Val Ser Pro Arg Cys Ala Asn Thr Cys Asp Ala Glu Ser Tyr Thr
    210                 215                 220
Tyr Asn Ala Ser Lys Asp Ile Val Ser Arg Ala Leu Met Glu Val Phe
225                 230                 235                 240
Asn Ser His Trp Glu Pro Val Lys Glu Glu Val Trp Ala Thr Pro Leu
                245                 250                 255
Ala Gly Thr Lys Glu Phe Trp Gly Ser Val Pro Ala Lys Lys Val Leu
            260                 265                 270
Leu Leu Ala Gly Thr Asp Glu Val Tyr Val Asp Asp Ile Arg Arg Phe
        275                 280                 285
Gly Glu Leu Leu Gly Ser Ser Ser Gln Ala Ala Ser Thr Glu Leu Val
    290                 295                 300
Leu Cys Ala Glu Glu Thr His Ala Gln Ala Ile Arg Asp Val Ala Val
305                 310                 315                 320
Asn Asn Trp Asp Gly Val Met Leu Lys Val Ala Leu Asn Trp Leu Gln
                325                 330                 335
Asn Leu Gly Thr Leu Asn Asp Arg Gly Leu Pro Leu Pro Pro Asn Ser
            340                 345                 350
Lys Gly Val Cys Ala Val Trp Asn Asp Thr Ile Asn Val Met Thr Asp
        355                 360                 365
Ser Asp Thr Arg His Ala Arg
    370                 375
```

<210> 26224
<211> 103
<212> PRT
<213> A.fumigatus

```
<400> 26224
Gly Gly Pro Leu Thr Ala Pro Gln Leu Leu Tyr Asn Gly Leu Tyr Phe
1               5                   10                  15
Ser Pro Glu Arg Glu Phe Leu Glu Ala Ser Ile Thr Ala Ser Gln Lys
            20                  25                  30
Thr Val Asn Gly Gln Val Arg Cys Arg Ala Tyr Lys Gly Ser Ile Ser
        35                  40                  45
Ile Leu Gly Arg Ser Ser Glu Thr Glu Lys Leu Tyr Asp Met Ser Glu
    50                  55                  60
Ser Ser Met Asp Glu Ile Gly Asp Phe Ala Pro Thr Glu Thr Thr Gly
65                  70                  75                  80
Phe Ile Gly Val Ser Ala Ile Arg Leu Lys Lys Tyr Gly Gln Met Lys
                85                  90                  95
Gln Ala Asn Gly Glu Lys Met
            100
```

<210> 26225
<211> 73
<212> PRT
<213> A.fumigatus

```
<400> 26225
Pro Ala His Val Ser Leu Gln His Thr Gly Pro Ala Arg Cys Trp Gln
1               5                   10                  15
Pro Asp Ser Thr Asn Arg Ala Thr Pro Gln Thr Ala Gly Tyr His Pro
            20                  25                  30
```

```
His Lys Pro Arg Pro Cys Pro Arg Gly Ala Thr Pro Ser Ser Gln Glu
        35                  40                  45
Gln Thr Pro Arg Thr Pro Ser Ser Gln Pro Ala Ala Ser Pro Thr Pro
    50                  55                  60
Pro Pro Ser Gln Ala Pro Ser Ala Asn
65                  70
```

<210> 26226
<211> 135
<212> PRT
<213> A.fumigatus

<400> 26226

```
Gln Gly Cys Lys Val Gly Lys Asp Gly Lys Val Phe Ser Tyr Gly Asn
1               5                   10                  15
Ser Phe Tyr Thr Gly Gln Ile Pro Ser Ser Ala Ala Leu Thr Lys Arg
            20                  25                  30
Asp Phe Ser Asp Pro Val Thr Ala Leu Lys Gly Thr Thr Asn Thr Leu
        35                  40                  45
Gln Leu Pro Ile Thr Val Asp Ser Ala Ser Ser Glu Ser Thr Glu Glu
    50                  55                  60
Lys Glu Ser Tyr Val Phe Lys Gly Val Ser Gly Thr Val Ser Asp Pro
65                  70                  75                  80
Lys Ala Lys Leu Val Tyr Phe Val Lys Asp Asp Gly Thr Leu Ala Leu
                85                  90                  95
Ala Trp Arg Val Glu Thr Asp Ile Asp Ser Asn Trp Leu Leu Thr Tyr
            100                 105                 110
Ile Asp Ala Lys Ser Gly Glu Glu Ile His Gly Val Val Asp Tyr Val
        115                 120                 125
Ala Glu Ala Asp Tyr Gln Val
    130                 135
```

<210> 26227
<211> 125
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (68)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26227

```
Leu Thr Trp Cys Ser Ala Trp Gly Ile Asn Asp Pro Thr Glu Gly Glu
1               5                   10                  15
Arg Thr Val Ile Lys Asp Pro Trp Asp Ser Val Ala Ser Glu Phe Thr
            20                  25                  30
Trp Ile Ser Asp Gly Ser Thr Asn Tyr Thr Thr Ser Arg Gly Asn Asn
        35                  40                  45
Gly Ile Ala Gln Ser Thr Pro Ser Gly Gly Ser Ser Tyr Leu Asn Asn
    50                  55                  60
Tyr Pro Pro Xaa Ser Ser Ser Leu Ser Phe Lys Tyr Pro Tyr Ser Val
65                  70                  75                  80
Ser Ser Pro Pro Pro Ser Ser Tyr Leu Asp Ser Ser Ile Leu Gln Leu
                85                  90                  95
Ser Tyr Ala Asp Asn Phe Tyr Pro Asp Leu Pro Tyr Pro Leu Cys Phe
```

```
            100                 105                 110
Pro Asp Glu Ala Gly Thr Phe Glu Phe Tyr Thr Arg Gly
        115                 120                 125
```

<210> 26228
<211> 172
<212> PRT
<213> A.fumigatus

<400> 26228

```
Ile Arg His Arg Ser Ser Pro Asp His Ile Leu Asn Met Arg Gly Leu
1               5                  10                  15
Leu Leu Ala Gly Ala Leu Ala Leu Pro Ala Ser Val Phe Ala His Pro
            20                  25                  30
Ala His Gln Ser Tyr Gly Leu Asn Arg Arg Thr Val Asp Leu Asn Ala
        35                  40                  45
Phe Arg Leu Lys Ser Leu Ala Lys Tyr Val Asn Ala Thr Glu Thr Val
    50                  55                  60
Ile Glu Ala Pro Ser Ser Phe Ala Pro Phe Lys Pro Gln Ser Tyr Val
65                  70                  75                  80
Glu Val Ala Thr Gln His Val Lys Met Ile Ala Pro Asp Ala Thr Phe
                85                  90                  95
Arg Val Val Asp Asp His Tyr Val Gly Asp Asn Gly Val Ala His Val
            100                 105                 110
His Phe Arg Gln Thr Ala Asn Gly Leu Asp Ile Asp Asn Ala Asp Phe
        115                 120                 125
Asn Val Asn Val Arg Tyr Asp Ser Val Pro Cys Ile Ser Leu Ala Asp
    130                 135                 140
Arg Gly Ala Arg Ser Glu Lys Met Glu Arg Ser Phe Arg Met Ala Thr
145                 150                 155                 160
Leu Ser Ile Pro Asp Arg Ser Pro Ala Arg Leu His
                165                 170
```

<210> 26229
<211> 120
<212> PRT
<213> A.fumigatus

<400> 26229

```
Ser Arg Phe Leu Pro Gly Arg Val Glu Asp Gly Gly Ile Ala Thr Gly
1               5                  10                  15
Ala Glu Val Ile Lys Thr Glu Glu Glu Gln Lys Met Phe Gly Gly Val
            20                  25                  30
Ala Gly Asp Ala Phe Asp Pro Cys Tyr His Gln Leu Cys Asp Asp Val
        35                  40                  45
Ser Asn Val Asn Leu Thr Ala Trp Glu Val Asn Thr Lys Val Arg Val
    50                  55                  60
Asp Phe Cys Val Tyr Thr Arg Arg Arg Leu Leu Ile Cys Thr Gln Leu
65                  70                  75                  80
Val Ala His Ser Ile Ala Thr Tyr Ala Arg Ser Phe Asp Gly Phe Pro
                85                  90                  95
Lys Arg Ile Lys Val Glu Ser Met Lys Lys Gly Asp Glu Gln Arg Lys
            100                 105                 110
Tyr His Gly His Ser Leu Leu Tyr
        115                 120
```

<210> 26230
<211> 302
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(3),(20)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26230
Xaa Gly Xaa Val Val Phe Arg Glu Leu Ala Ser Asn Lys Ser Leu Asp
1 5 10 15
Gly Arg Ser Xaa Ser Ser Ser Ser Glu Glu Arg Lys Tyr Trp Gly Phe
20 25 30
Leu Val Phe Ile Lys Val Leu Gly Glu Cys Pro Leu Gln Leu Ala Ser
35 40 45
Val Val Phe Thr Lys Asn Leu Val Arg Cys Leu Thr Asn Gln Leu Ala
50 55 60
Val Glu Asp Arg Tyr Leu His Arg Met Ala Val Lys Ala Ala Lys Ser
65 70 75 80
Ile Gln Ala Arg Val Ala Lys Asp Pro Glu Phe Ala Ala Ala Ser Val
85 90 95
Ile Gly Leu Met Gly Ser Ala Gly Ser Val Thr Phe Asp Gln Ala Thr
100 105 110
Lys Thr Lys Thr Ile Glu Lys Ile Val Val Glu Ala Asn Leu Asp Ala
115 120 125
Leu Lys Gln Ile Val Pro Phe Phe Glu Lys Leu Ile Ala Ser Arg Gly
130 135 140
Ala Asp Asp Ala Lys Ala Ala Ala Ala Ser Arg Gln Ser Leu Ala Gly
145 150 155 160
Leu Leu Leu Ser Ile Val Arg Ser Arg Ala Ser Ala Asn Asp Glu Ser
165 170 175
Gln Asp Gly Leu Gln Ala Val Leu Glu Gln Ile Leu Phe Thr Phe Val
180 185 190
Arg Phe Gly Tyr Phe Leu Pro Lys Asp Glu Ala Ala Val Gln Pro Ala
195 200 205
Leu Thr Gln Gln Ser Gln Glu Leu Phe Arg Asn Arg Ile Ser Ser Cys
210 215 220
Leu Asn Ser Leu Ile Ala Asn Pro Lys Tyr Ala Thr Thr Leu Pro Tyr
225 230 235 240
Ala Val Val Lys Lys Ile Arg Asp Ala Ala Lys Ser Glu Glu Tyr Gly
245 250 255
Lys Phe Ile Ile Asn Met Asp Glu Thr Leu Arg Asp Ser Val Lys Thr
260 265 270
Ala Phe Lys Ser Leu Lys Lys Leu Ser Ser Met Val Ser Ile Ala Thr
275 280 285
Phe Pro Thr Val Pro Phe Val Leu Thr Glu Thr Gly Lys Glu
290 295 300

<210> 26231
<211> 112
<212> PRT
<213> A.fumigatus

<400> 26231

```
Leu Lys Gln Glu Lys Asn Glu Val Ser Gly Val Glu Ala Phe Lys Leu
1               5                  10                  15
Leu Tyr Ser Met Thr Ile Leu Gln Val Tyr Asn Gly Asp Ala Asp Ala
            20                  25                  30
Val Ser Met Leu Asp Glu Leu Asp Phe Cys Tyr Thr Lys Phe Leu Gly
        35                  40                  45
Asp Lys Lys Ser Lys Asp Glu Glu Ala Ser Asp Ala Ser Asp Ala Leu
    50                  55                  60
Val Glu Ile Leu Leu Ser Phe Ala Ser Lys Gln Ser Gln Leu Phe Arg
65                  70                  75                  80
Arg Met Ser Glu Gln Val Phe Gly Ala Phe Ala Asp Lys Val Thr Glu
                85                  90                  95
Asn Gly Leu Glu Ser Leu Val Ser Val Cys Pro Leu Pro Pro Glu Ile
            100                 105                 110
```

<210> 26232
<211> 68
<212> PRT
<213> A.fumigatus

```
<400> 26232
Thr Leu Arg Cys Phe Arg Leu Lys Ile Thr Glu Leu Glu Phe Ile Arg
1               5                  10                  15
Asp Ile His Ala Phe Ile Val Cys Glu Ser Ser Tyr Thr His Pro Ala
            20                  25                  30
Leu Phe Asp Ser Leu Asp Arg Phe Gly Ile Met Cys Ser Val Trp Cys
        35                  40                  45
Leu Cys Asn Phe Leu Leu Gln Ile Asn Val Phe Ser Ile Leu Tyr Leu
    50                  55                  60
Pro Thr Asn Val
65
```

<210> 26233
<211> 187
<212> PRT
<213> A.fumigatus

```
<400> 26233
Thr Met Phe Ile Gly Ile Arg Gly Val Leu Val Arg Tyr Ala Ser Ser
1               5                  10                  15
Ala Ser Gly Phe Thr Asn Leu Asn Arg Ser Leu Ser Leu Lys Ser Asn
            20                  25                  30
Tyr Ser Met Arg Lys Ala Ser Trp Gly Gly Arg Ser Ser Val Ala Asn
        35                  40                  45
Lys Glu Asn Glu Ser Phe Pro Glu Glu Asp Glu Asn Gln Ser Gly Asp
    50                  55                  60
Glu Ser Asp Ala Gly Thr Glu Arg Arg Thr Ser Tyr Thr Gly Thr Tyr
65                  70                  75                  80
Thr Asp Ser Met Thr Tyr Gly Thr Glu Ser Val Val Ser Ala Asp Arg
                85                  90                  95
Arg Val Ser Ala Ala Ser Ser Thr Asn Met Pro Thr Ala Ala Pro His
            100                 105                 110
Ser Ile Pro Glu Asp Ser Glu Asp Asp Glu Gln Gln Glu Glu Glu His
        115                 120                 125
Gly Thr Ala Asp Glu Asp Glu Asp Asp Ala Gln Thr Thr Lys Gly Asn
    130                 135                 140
```

```
Glu Ser Ala Asp Asp Gln Gln Glu Gly Glu Thr Gly Ala Asp Gly Asp
145                 150                 155                 160
Asp Leu Val Ser Thr Lys Met Val Leu Tyr Gly Gln His Ser Asp Ser
                165                 170                 175
Gly Leu Gly Ala Glu Ile Ala Ser Ala Ala Gly
            180                 185
```

<210> 26234
<211> 60
<212> PRT
<213> A.fumigatus

<400> 26234

```
Ser Asn Ile Ala Ser Ala Pro Thr Thr Gly Ser Asp Ala Ser Ile Pro
1               5                   10                  15
Pro Ser Gln Pro Val Ala Ile Arg Gln Ala Arg Ser Asn Thr Pro Phe
            20                  25                  30
Arg Ser Glu Ser Ser Asp Asp Asn Pro Leu Thr Pro Arg Asn Asp Ser
        35                  40                  45
Gly Pro Leu Ala Phe Asp Gly Arg Ala Gly Met Pro
    50                  55                  60
```

<210> 26235
<211> 60
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(30)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26235

```
Ile Gly Tyr Xaa Val Gln Val Asp Leu Val Gln His Asn Leu Tyr Thr
1               5                   10                  15
Asp Ala Thr Thr Pro Leu Arg Val Val Asn Lys Tyr Glu Xaa Thr Pro
            20                  25                  30
His Pro Val Ser Tyr Cys Ser Glu Glu Cys Phe Val Ala Trp Ile Ala
        35                  40                  45
Phe Val Ile Val Val Phe Asp Ser His Leu Lys Asp
    50                  55                  60
```

<210> 26236
<211> 65
<212> PRT
<213> A.fumigatus

<400> 26236

```
His Asp Ala Lys Leu Val Trp Val Ala Arg Thr Val Phe Ile His Leu
1               5                   10                  15
Pro Met Val Lys Tyr Thr His His Ser Met Ala Glu Gly Asn Met Glu
            20                  25                  30
Met Glu Val Ile Gln Val Asp Ile Val Cys Met Asp Thr Asp Cys Gly
        35                  40                  45
His Ser Phe Val Asp Gly Leu Thr Ser Phe Pro Thr Gln Ile Ser Asp
    50                  55                  60
```

Ser
65

<210> 26237
<211> 230
<212> PRT
<213> A.fumigatus

<400> 26237
Leu Glu Asp Ala Asp Ser Asn Arg Gly Ala Ala Arg Arg Ser Arg Val
1 5 10 15
Ala Ile Asp Ala Thr Ala Glu His Ser Asp Thr Glu Arg Ser Thr Lys
20 25 30
Gly Arg Cys Ala Val Ser Met His Gln Pro Thr Pro Leu Ala Leu Pro
35 40 45
Gly Arg Pro Asn Phe Ser Asn Val Ser Ser Pro Arg Gly Ser Ala His
50 55 60
His His Gly Ser Lys Gln Ala Gln Gly Ala Gln Leu Gln Thr Ser Ser
65 70 75 80
Ser His Val Arg Asp Lys Gly Gly Pro Val His Ala Ser Thr Pro Gln
85 90 95
Asn Arg Gly Thr Ser Val Tyr Asn Lys Lys Ile Asp Leu Leu Ser Phe
100 105 110
Asp Pro Leu Leu Asp Tyr Thr Ser Ser Asp Leu Ser Arg Ser Gly Gln
115 120 125
Gln Ile Ile Ser Asp Pro Lys Glu Arg Ala Lys Arg Asp Glu Phe Leu
130 135 140
Arg Gly Leu His Asp Met Phe Ala Ala Thr Thr Ala Pro Gly Lys Thr
145 150 155 160
Asn Thr Val Pro Ala Asp Thr Asp Val Phe Ala Ser Gln Pro Arg Thr
165 170 175
Lys Arg Val Gln Pro Lys Ser Arg Arg Leu Phe Gln Asp Arg Pro Ala
180 185 190
Ala Leu Lys Ser Ala Pro Asp Gly Gly Thr Glu Thr Asn Ala Leu Asp
195 200 205
Ala Asp Gln Ile Arg Gln Gln Ser Val Arg Ile Tyr Asn Leu Ala Ala
210 215 220
Asp Ala Val Lys Asp Phe
225 230

<210> 26238
<211> 161
<212> PRT
<213> A.fumigatus

<400> 26238
Pro Gln Phe Arg Pro Cys Ser Pro Phe Pro Arg Pro Gly Gln Ala Leu
1 5 10 15
Pro Ser Arg Asn Ile Asn Pro Leu Gln Gly Gly Lys Ala Gln Ala Gly
20 25 30
Phe Pro Pro Val Ser Pro Thr Ala Val Leu Pro Gly Glu Gly Leu Asp
35 40 45
Trp Met Asn Thr Phe Leu Gln Ser Cys Thr Glu Cys Gly Ile Ser Ala
50 55 60
Leu Ala Val Gln Trp Tyr Gly Asn Ser Ala Glu Glu Phe Lys Thr Phe
65 70 75 80

```
Val Asn Lys Ala Ile Ser Phe Ala Ser Glu Lys Gly Leu Glu Ser Val
                85                  90                  95
Trp Ile Thr Glu Phe Ala Leu Ser Asn Asp Ile Asn Thr Gly Ala Leu
            100                 105                 110
Ser Ser Glu Ser Glu Gln Phe Leu Thr Glu Val Phe Pro Trp Leu Asp
        115                 120                 125
Ser Gln Pro Met Val Ala Arg Tyr Ala Tyr Phe Met Cys Ala Asn Asn
    130                 135                 140
Tyr Leu Leu Ser Gly Ser Gly Phe Thr Ser Thr Gly His Val Tyr Val
145                 150                 155                 160
Ser
```

<210> 26239
<211> 144
<212> PRT
<213> A.fumigatus

<400> 26239

```
Ile Thr Leu Ala Val His Pro Ser Ser Pro Val Val Lys Thr Ile Met
1               5                  10                  15
Phe Cys Thr Leu Phe Ser His Val Gly Phe Ala Val Asn Val Thr Ser
            20                  25                  30
Ile Leu Leu Ser Ile Ser Thr Ile Leu Gly Gly Val Met Ser Leu Asn
        35                  40                  45
Val Asn Asp Val Leu Gln Ala Ile Asn His Leu Ser Pro Ile Lys Tyr
    50                  55                  60
Ser Ile Ala Asn Leu Ala Pro Tyr Ala Met Arg Asp Gln His Phe Thr
65                  70                  75                  80
Cys Thr Ala Ser Gln Leu Leu Ala Asn Gly Thr Cys Pro Ile Gln Thr
                85                  90                  95
Gly Gln Gln Val Leu Gln Leu Tyr Asn Leu Asp Lys Asn Ala Pro Met
            100                 105                 110
Asn Val Met Ala Leu Gly Ile Cys Thr Ile Ile Tyr Arg Leu Val Ala
        115                 120                 125
Tyr Ala Met Leu Lys Val Met Arg Glu Gly Phe Trp Arg Arg Leu Arg
    130                 135                 140
```

<210> 26240
<211> 90
<212> PRT
<213> A.fumigatus

<400> 26240

```
Trp Gln Leu Leu Glu Asn Glu Val Asn Cys Val Ser Gln Cys Pro Thr
1               5                  10                  15
Asp Asp Thr Thr Val Val Asp Trp Ser Glu Thr Lys Ala Ala Leu Pro
            20                  25                  30
Arg Leu Cys Tyr Leu Leu Ile Asn Asn Phe Gly Ser Leu Cys His Cys
        35                  40                  45
Ser Asp Leu His Thr Ala Leu Val Gln Trp Arg Leu Arg Tyr Asp Pro
    50                  55                  60
Pro Val Cys Ala Ile Tyr Val Arg Gln Asp Gly Thr Arg Ile Met Glu
65                  70                  75                  80
Lys Cys Thr Val Arg Ser Arg Asp Gln Leu
                85                  90
```

<210> 26241
<211> 77
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5),(11),(22)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26241
His Ser Phe Gly Xaa Gly Gln His Phe Asn Xaa Ile Lys Gln Gln Thr
1 5 10 15
Pro Ile Lys Arg Arg Xaa Gln Leu Gly Thr Ala Met Gln Asp Leu Ser
20 25 30
Val Tyr Ser Val Tyr Ala Ala Trp Asn Ile Gln Ser Lys Cys Thr Met
35 40 45
Glu Val Trp Pro Cys Leu Glu Ala Thr Leu Ser Gln Ile Gln Leu Ala
50 55 60
Ala Ser Arg Thr Cys His Trp Pro Thr Val Arg Leu Ser
65 70 75

<210> 26242
<211> 68
<212> PRT
<213> A.fumigatus

<400> 26242
Ile Phe Asn Val Tyr Asn Gly Leu Glu Leu Pro Asn Ser Gln Asp Leu
1 5 10 15
Ile Ser Lys Thr Leu Glu Val Leu Ser Leu Val Asn Pro Ser Arg Ile
20 25 30
Ala Tyr Val Gly Phe Val Lys Leu Val Ala Arg Asp Ser Ala Asp Arg
35 40 45
Asn Phe Thr Ile Phe Ala Thr Trp Gln Pro Thr Gly Val Leu Arg Glu
50 55 60
Leu Ala Val Leu
65

<210> 26243
<211> 488
<212> PRT
<213> A.fumigatus

<400> 26243
Arg Thr Ile Lys Glu Gly Pro Lys His Ser His Gly Lys Leu Leu Ala
1 5 10 15
Gln Glu Gly Phe Ser Asp Val Leu Thr Lys Pro Arg Arg Glu Thr Pro
20 25 30
Leu Lys Gly Ile Ser Tyr His Ser Ser His Asn Thr Ser Arg Gln Gly
35 40 45
Ala Ser Ser Ala Ile Pro Trp Ser Gln Pro Ala Ala Asp Ala Ser Glu
50 55 60
Ser Thr Ala Val Phe Gly Gly Leu Ser Thr Pro Lys Ala Lys Lys Gln
65 70 75 80

```
Gly Phe Phe Lys Lys Ile Phe Glu Ser Ala Lys Thr Gly Ala Ala Asn
                85                  90                  95
Ala Arg Ser Ser Ile Ala Val Gly Asn Ser Gly Gly Ser Tyr Ser Arg
            100                 105                 110
Thr Lys Gly Arg Ala Ile Ser Pro Ile Arg Arg Asp Thr Thr Arg Asp
        115                 120                 125
Ala Gly Thr Gly Thr Val Asp Trp Val Gln Val Arg Arg Asp Val Asn
    130                 135                 140
Arg Ala Ser Ser Pro Ser Arg Asn Glu Arg Ile Glu Arg Ala Glu Arg
145                 150                 155                 160
Cys Gln Met Met Asp His Pro Val Ile Tyr Ala Val Glu Glu Leu His
                165                 170                 175
Glu Thr Ala Glu Gly Asp Glu Ser Ile Asp Gly Leu Pro Ile Ser Glu
            180                 185                 190
Pro Thr Asn Phe Asn Thr Val Asn Leu Asn Leu Val Asp Lys Ser Ala
        195                 200                 205
Arg Phe Val Asn Ser Leu Pro Pro Met Thr Asn Pro Met Ser Leu Ala
    210                 215                 220
Gln Gly Tyr Val Cys Arg Pro Tyr Lys Ser Asp Val Gln Arg Leu Arg
225                 230                 235                 240
Ala Ile Phe Thr Trp Val Ser Glu Lys Ile Ala Trp Asp Glu Pro Val
                245                 250                 255
Glu Glu Ile Gly Ile Asp Leu Lys Arg Ile Leu Gln Thr Arg Arg Gly
            260                 265                 270
Ser Pro Gln Glu Val Ala Phe Leu Val Lys Glu Met Cys Ala Ala Val
        275                 280                 285
Gly Leu His Ala Glu Val Val Gln Gly Phe Leu Lys Thr Pro Gly Glu
    290                 295                 300
Leu Phe Glu Leu Asp Ser Leu Ser Arg Pro Asn His Trp Trp Asn Thr
305                 310                 315                 320
Val Leu Val Asp Gly Glu Trp Arg Val Ile Asp Cys Ala Leu Ala Asn
                325                 330                 335
Pro Thr Asn Pro Arg Arg Asn Gln Phe Val Thr Ser Gly Ser Ser Thr
            340                 345                 350
Ala Glu Ser Trp Tyr Phe Leu Ala Arg Pro Leu Glu Ile Cys Tyr Thr
        355                 360                 365
His Val Pro Leu Tyr Pro Glu Glu Gln His Ile Cys Pro Pro Ile Ser
    370                 375                 380
Pro Asp Val Leu Leu Ala Leu His Thr Ala Cys Pro Pro Tyr Phe Lys
385                 390                 395                 400
Leu Asn Leu Gln Phe Pro Asp Tyr Asp Thr Ser Leu Ile Arg Ile Glu
                405                 410                 415
Gly Leu Glu Leu Leu Gln Ile Arg Leu Leu Val Pro Pro Asp Val Glu
            420                 425                 430
Cys Ala Ala Glu Val Glu Ala Pro Ala Phe Ala Arg Asp Ala Asp Gly
        435                 440                 445
Asp Phe Phe Glu Ser Gly Glu Val Ile Arg Lys Arg Ala Leu Val Gln
    450                 455                 460
Pro Asp Trp Val Gly Gly Gln Lys Arg Phe Thr Val Lys Ala Val Cys
465                 470                 475                 480
Phe Leu Ser Glu Ala Ala Ala Arg
                485
```

<210> 26244
<211> 79
<212> PRT

<213> A.fumigatus

<400> 26244
Pro Gln Pro Ser Thr Gln Asp Leu Thr Ser Arg Ile Ser Gly Val Thr
1 5 10 15
Ser Val Glu Ala Gly Thr Gln Ile Lys Gln Val Gly Lys Asp Glu Gln
20 25 30
Pro Ile Asp Leu Ser Asp Glu Lys Asn Val Glu Met Phe Met Lys His
35 40 45
Phe Ser Gly Trp Ser Gln Arg Met Arg Glu Asp Ala Ala Thr Met Asn
50 55 60
Leu Tyr Gly Tyr Val Asp Leu Pro Lys Gly Glu Ala Tyr Arg Gly
65 70 75

<210> 26245
<211> 374
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (11)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26245
Lys Ile Ser Lys Arg Thr Ala Pro Asn Ser Xaa Tyr Lys Ala Ala Met
1 5 10 15
Thr Glu Arg Met Ser Ser Trp Ser Pro Thr Asp Leu Lys Ala Arg Gly
20 25 30
Val Pro Ser Arg Glu Leu Ile Asn Leu Tyr Lys Arg Trp Gly Glu Gly
35 40 45
Gly Tyr Gly Leu Ile Ser Thr Gly Asn Ile Met Ile Ala Tyr Asp Arg
50 55 60
Leu Glu Ala Pro Gly Asn Pro Ile Ile Asp Leu Glu Asn Pro Phe His
65 70 75 80
Gly Glu Arg Phe Asp Ala Phe Arg Glu Leu Ala Ser Gln Ala Lys Arg
85 90 95
His Gly Ser Leu Ile Ile Gly Gln Val Ser His Pro Gly Arg Gln Thr
100 105 110
Glu Glu Arg Leu Gln Pro Asn Pro Val Ser Ala Ser Asp Val Gln Leu
115 120 125
Asp Lys Glu Ile Met Gly Met Gln Phe Ala Lys Pro His Ala Ala Ser
130 135 140
Lys Asp Glu Ile Thr Asp Phe Ile Arg Arg Trp Thr His Ala Ala Val
145 150 155 160
Tyr Leu His Lys Ala Gly Tyr Asp Gly Ile Gln Leu His Gly Ala His
165 170 175
Gly Tyr Leu Leu Ala Gln Phe Leu Ser Gln Thr Thr Asn Arg Arg Thr
180 185 190
Asp Glu Tyr Gly Gly Ser Leu Glu Asn Arg Ala Arg Leu Ile Val Glu
195 200 205
Ile Ala Gln Ser Ile Arg Lys Glu Leu Pro Ala Ser Thr Gly Phe Ile
210 215 220
Leu Gly Ile Lys Ile Asn Ser Val Glu Phe Gln Ala Gly Gly Phe Thr
225 230 235 240
Ala Asp Glu Ala Arg Glu Leu Cys Gln Ile Leu Glu Glu Asn Glu Phe

```
                245                 250                 255
Asp Phe Val Glu Leu Ser Gly Gly Thr Tyr Glu Phe Ile Ala Phe Ser
            260                 265                 270
His Lys Arg Asp Ser Thr Lys Gln Arg Glu Ser Phe Phe Leu Glu Phe
        275                 280                 285
Ala Ser Leu Ile Thr Pro Ala Leu Ser Lys Thr Lys Ser Tyr Val Thr
    290                 295                 300
Gly Gly Leu Arg Thr Ala Ser Gly Met Val Gly Ala Leu Glu Thr Val
305                 310                 315                 320
Asp Gly Val Gly Leu Ala Arg Pro Ala Cys Gln Glu Ile Arg Leu Pro
                325                 330                 335
Arg Asp Ile Leu Asp Gly Lys Val Thr Ala Ala Ile Asn Pro Arg Phe
            340                 345                 350
Asp Gln Gln Asp Phe Gly Ser His Gln Arg Arg Ser Gly Tyr Ala Asn
        355                 360                 365
Lys Ala Ser Gly Lys Gly
    370
```

<210> 26246
<211> 192
<212> PRT
<213> A.fumigatus

<400> 26246

```
Leu Leu Pro Asn Arg Leu Arg Asp Leu His Asn Gln Pro Arg Ala Val
1               5                   10                  15
Leu Gln Thr Pro Ala Val Leu Ile Gly Ala Ala Ile Arg Arg Leu Arg
            20                  25                  30
Gln Lys Leu Cys Glu Lys Val Pro Met Arg Ala Val Gln Leu Asp Thr
        35                  40                  45
Ile Ile Ala Ser Leu Val Gln Val His Ser Gly Met Arg Pro Pro Pro
    50                  55                  60
Asp Glu Val Cys Asp Leu Val Leu Gly Arg Ser Val Trp Leu Gly Lys
65                  70                  75                  80
Leu His Pro His Asp Leu Leu Val Glu Leu Asn Val Ala Gly Gly Asp
                85                  90                  95
Arg Val Gly Leu Glu Ser Phe Leu Cys Leu Pro Ala Arg Met Thr Asp
            100                 105                 110
Leu Ala Asp Asp Gln Ala Ala Met Ser Leu Gly Leu Arg Gly Gln Leu
        115                 120                 125
Ala Glu Gly Val Glu Thr Phe Pro Val Glu Gly Ile Leu Gln Val Asn
    130                 135                 140
Asn Gly Val Ala Gly Gly Phe Gln Pro Val Val Ser Asp His Asp Val
145                 150                 155                 160
Thr Ser Arg Tyr Glu Ser Val Thr Ala Phe Thr Pro Ser Leu Val Glu
                165                 170                 175
Ile Asp Gln Leu Pro Ala Gly Asp Thr Pro Cys Leu Lys Ile Gly Gly
            180                 185                 190
```

<210> 26247
<211> 158
<212> PRT
<213> A.fumigatus

<400> 26247

```
Ser His His Gln Asn Lys Thr Arg Lys Ile Arg Gly Lys Ser Asn Met
```

```
1               5                   10                  15
Pro Ser Ala Gln Pro Pro Ala Ser Leu Ala Ser Ser Ser Ser Glu Pro
            20                  25                  30
Ser Tyr Ser Pro Ile Pro Ala Ser Ala Ser Thr Thr Ala Glu Asp Gly
        35                  40                  45
His Thr Arg Ser Ser Thr Thr Pro Thr Gly Pro Ser Ser Ser Lys Gln
    50                  55                  60
Ala Ala Ala Ser Gly Thr Ala Thr Asp Arg Asp Lys Pro Arg Leu Thr
65                  70                  75                  80
Glu Gln Glu Lys Lys Asn Asn His Ile Ala Ser Glu Gln Lys Arg Arg
                85                  90                  95
Ala Ala Ile Arg Glu Gly Phe Asp Arg Leu Thr Glu Leu Val Pro Gly
            100                 105                 110
Leu Glu Gly Gln Gly Arg Ser Glu Ser Val Val Leu Arg Lys Thr Val
        115                 120                 125
Asp Phe Ile His Met Lys Leu Gln Glu Arg Gln Glu Leu Ile Ala Glu
    130                 135                 140
Ile Glu Ser Arg Gly Gly His Ile Asp Asp Ala Phe Arg Thr
145                 150                 155
```

<210> 26248
<211> 65
<212> PRT
<213> A.fumigatus

<400> 26248

```
Pro Tyr Tyr Lys Pro Leu Ser Ser Ser Phe Asn Asp Thr Ala Ser Lys
1               5                   10                  15
Gln Leu Pro Leu Ser Tyr Ser Ser Phe Leu Leu Asp Leu Tyr Phe Ser
            20                  25                  30
Ile Ile Leu Leu Ala Val Thr Thr Gln Ser Tyr Ile Ala Ala Ser Ile
        35                  40                  45
His Asn Cys Leu His Arg Gly Ala Gly Arg Ser Arg Leu Leu Lys Asp
    50                  55                  60
His
65
```

<210> 26249
<211> 170
<212> PRT
<213> A.fumigatus

<400> 26249

```
Lys Gly Tyr Ser Glu Cys Trp Ala Asn Gly Ile Tyr His Cys Leu Phe
1               5                   10                  15
Cys Asp Gly Tyr Glu Glu Arg Gly Gln Glu Thr Val Gly Val Leu Ala
            20                  25                  30
Leu Gly Pro Ile Ala Asn Pro Ala Arg Ala Leu His Leu Ala Arg Met
        35                  40                  45
Ala Leu Arg Leu Ser Glu Ser Val Thr Ile Tyr Thr Asn Gly Asn Glu
    50                  55                  60
Gln Leu Ala Lys Glu Ile Gln Gln Ala Ala Glu Glu Ser Pro Val Gly
65                  70                  75                  80
Ala Ser Gly Leu Lys Phe Glu Ala Arg Pro Ile Arg Arg Phe Glu Lys
                85                  90                  95
Gly Asp Val Ala Lys Thr Val Ile Val His Leu Gly Glu Ser Glu Ser
```

```
            100                 105                 110
Lys Thr Glu Gly Phe Leu Val Arg Cys Pro Val Tyr Ser Thr Glu Ile
        115                 120                 125
Ser Leu Leu Thr Ala Ala Asn Arg Ser Gly Val Gln Pro Pro Asn Gly
    130                 135                 140
Gly Gln Trp Thr Val Cys Gln Ala Ala Arg Leu Glu Tyr Asp Arg Arg
145                 150                 155                 160
Arg Gly Tyr Pro Asp His Ala Ala Leu Leu
                165                 170
```

<210> 26250
<211> 91
<212> PRT
<213> A.fumigatus

<400> 26250

```
Pro Arg Gln Thr Ala Gln Val Tyr Asn Pro Gln Thr Glu Val Asn Gly
1               5                   10                  15
Pro Phe Ala Lys Gln Leu Ala Leu Asn Met Thr Glu Gly Gly Asp Ile
            20                  25                  30
Leu Thr Thr Pro Pro Phe Tyr Glu Thr Ser Val Pro Gly Val Phe Ala
        35                  40                  45
Val Gly Asp Cys Ala Thr Pro Leu Lys Ala Val Thr Pro Ala Val Ser
    50                  55                  60
Met Gly Ser Leu Ala Ala Gly Gly Leu Val Ala Gln Leu Gln Ala Gln
65                  70                  75                  80
Ala Leu Pro Glu Phe Arg Leu Asp Gln Glu Leu
                85                  90
```

<210> 26251
<211> 119
<212> PRT
<213> A.fumigatus

<400> 26251

```
His Pro Gln Asp Gly Arg Gln Ile Phe Asn Asp Ser Asn Ser Thr Met
1               5                   10                  15
Ala Thr Ser Thr Pro Ser Phe Glu Tyr Asn Ile Ser Phe Thr Thr Pro
            20                  25                  30
Ala Asn Pro Pro Ser Cys Glu Pro Lys Leu Thr Ala Lys Asp Leu Trp
        35                  40                  45
Thr Gly Ile Ala Arg Val Ala Asp Ala Pro Gln Glu Tyr Ala Pro Tyr
    50                  55                  60
Val Ser Lys Cys Glu Val Leu Ser Arg Asn Gly His Ala Leu Glu Arg
65                  70                  75                  80
Lys Leu Thr Met Ala Asn Gly Ala Val His Lys Ser Asp Gly Glu Ile
                85                  90                  95
Met Tyr Gln Asp Val Trp Ile Ala Asp Arg Leu Leu Val Val Leu Ser
            100                 105                 110
Leu Pro Ala Val Leu Pro Pro
        115
```

<210> 26252
<211> 258
<212> PRT
<213> A.fumigatus

<400> 26252
Gln Gln Thr Thr Phe Val Met Gln Thr Arg Pro Leu Ser Ile Asn Ala
1 5 10 15
Ile Trp His Leu Val Leu Pro Leu Leu Ala Thr Ser Ala Thr Ala Ala
20 25 30
Pro Tyr Gln Thr Arg Ile Leu Ala Thr Gly Thr Thr Phe Asn Ala Pro
35 40 45
Asp Pro Tyr Gly Pro Trp Ser Leu Thr Pro Ser Ala Asn Lys Pro Gly
50 55 60
Pro Asp Leu Ala Tyr Ile Lys Thr Ser Asn Thr Gly Thr Gly Lys Val
65 70 75 80
Glu Val His Leu Ala Ser Arg Ala Ser Asn Tyr Gln Thr Arg Thr Leu
85 90 95
Glu Val Gly Thr Thr Phe Phe Pro Glu Asp Asn Gly Val Trp Gln Leu
100 105 110
Ile Asp Ala Asp Gly Asp Gly Arg Asp Asp Leu Val Tyr Ile Lys Thr
115 120 125
Arg Asn Thr Gly Thr Gly Arg Val Glu Val His Ile Ala Thr Ala Ala
130 135 140
Ser Asn Phe Gln Thr Arg Ile Lys Asp Val Gly Thr Thr Phe Leu Pro
145 150 155 160
Glu Asp Asn Gly Thr Trp Gln Met Ala Asp Phe Asp Gly Asp Gly Ile
165 170 175
Leu Asp Leu Ile Tyr Ile Lys Thr Arg Asn Thr Gly Thr Gly Arg Val
180 185 190
Glu Val His Val Ala Ser Gly Ala Ser Asn Tyr Gln Thr Arg Ile Gln
195 200 205
Glu Val Gly Thr Thr Phe Tyr Pro Glu Asp Asn Gly Val Trp Gln Met
210 215 220
Ile Asp Phe Asn Arg Asp Gly Lys Leu Asp Leu Val Tyr Ile Lys Thr
225 230 235 240
Arg Asn Thr Gly Thr Gly Arg Val Glu Val His Val Ala Ser Gly Ala
245 250 255
Ser Thr

<210> 26253
<211> 168
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6),(53)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26253
Met Ser Ile Arg Thr Xaa Asn Pro Glu Thr Val Pro Ile Leu Leu Asp
1 5 10 15
Phe Asp Thr Gly Asp Trp Val His Phe Phe Ile Thr Asn Asn Ile Thr
20 25 30
Phe Glu Lys Val His Phe Pro Arg Asn Leu Thr Pro Val Met His Arg
35 40 45
Met His Leu His Xaa His Asp Phe Ala Ile Leu Ala Gln Gly Arg Gly
50 55 60

```
Glu Phe Asp Pro Ser Ile Val Pro Lys Leu Asp Asn Leu Pro Arg Arg
65                  70                  75                  80
Asp Val Val Asn Val Asp Thr Gly Ser Tyr Val Trp Ile Ala Phe Gln
                85                  90                  95
Val Asn Asn Pro Gly Ala Trp Leu Leu His Cys His Ile Ala Phe His
            100                 105                 110
Val Ser Ser Gly Leu Ser Leu Gln Phe Ile Glu Gln Pro Lys Lys Val
        115                 120                 125
Lys Pro Leu Met Glu Ala Ala Gly Val Leu Gly Glu Phe His Asp Arg
    130                 135                 140
Cys Ala Lys Trp Thr Glu Tyr Tyr Asp Ser Val Asn Ile Pro Asp Asn
145                 150                 155                 160
His Thr Ile Asp Asp Ser Gly Ile
                165
```

<210> 26254
<211> 427
<212> PRT
<213> A.fumigatus

```
<400> 26254
Leu Phe Leu Leu Ser Lys Gly Asn Gly Leu Met Thr Pro Gln Asp Lys
1               5                   10                  15
Asn Phe Ile Thr Arg Ile Gln Leu Gln Gln Leu Val Ala Ala Ala Gly
            20                  25                  30
Asn Val Ala Asp Thr Asp Leu Glu Ala Val Leu Ala Glu Asp Phe Tyr
        35                  40                  45
Tyr Gln Val Tyr Ser Gln Ile Arg Gly Ala Pro Arg Gln His Pro His
    50                  55                  60
Gln Pro Leu Gly His Phe Ala Gln Thr Tyr Leu Leu Gln Thr Gly Asn
65                  70                  75                  80
Arg Leu Gly Gly His Gly Arg Arg Asn Leu Gln Ser Ala Asp Asn His
                85                  90                  95
Met Gln Arg Met Gln Gln Gln Val Gln Arg Ala Val Glu Ala Ala Lys
            100                 105                 110
Ala Lys Pro Lys Asn Lys Gln Leu Ile Ile Glu Gly Ser Leu Gly Lys
        115                 120                 125
Ile Ser Phe Ser Asn Ala Lys Ala Pro Lys Pro Ile Leu Asn Ile Lys
    130                 135                 140
Arg Pro Glu Thr Ser Asp Gly Ala Lys Ala Ala Lys Lys Gln Pro Thr
145                 150                 155                 160
Asp Leu Ser Pro Ser Asp Arg Lys Ser Ile Leu Met Asn Ile Glu Asn
                165                 170                 175
Val Tyr Ser Thr Leu Met Glu Met Glu Asp Met Glu Arg Thr Met Pro
            180                 185                 190
Pro Leu Pro Asp Glu Asn Asp Ala Glu Ala Ile Gln Lys His Leu Glu
        195                 200                 205
Trp Arg Gln Lys Ile Arg Ser Leu Asn Gln Lys Leu Trp Gln Glu Leu
    210                 215                 220
Lys Val Met Glu Pro Ile Val Pro Asn Thr Asp Thr Pro His Pro Phe
225                 230                 235                 240
Ile Ala Phe Leu Ser Tyr Pro Lys Gly Lys Lys Ala Ile Pro Arg Ile
                245                 250                 255
Phe Arg His Ile Asp Gln Glu Gln Arg Val Thr Ile Leu Thr Met Ile
            260                 265                 270
Val Val His Leu Asp Thr Leu Asp Val Val Arg Ser Ala Gln Pro Ile
```

```
        275                 280                 285
Pro Gly Glu Asn Gln Pro Ser Leu Ala Val Arg Glu Ala Ile Asp Leu
    290                 295                 300
Phe Ser Gln Ala Val Met Pro Ser Leu Leu Gly Tyr Val Asn Glu Ala
305                 310                 315                 320
Pro Phe Asn Ile Ile Ile Gly Leu Leu Gly Leu Val Ile Ala Gln Thr
                325                 330                 335
His Val Gln Leu Val Ala Arg Thr Arg Ile Gly Leu Gly Ile Leu Thr
            340                 345                 350
Met Leu Leu Ser Arg Ala Glu Ile Val Lys Glu Ala Gly Gln Ala Ala
        355                 360                 365
Glu Arg Asp Trp Gln Gln Trp Val Glu Lys Phe Asn Val Leu Phe Asp
    370                 375                 380
Thr Leu Glu Pro Ile Phe Gly Glu Ile Phe Pro Ala Ser Ile Asn Ala
385                 390                 395                 400
Gly Asp Asp Met Tyr Val Trp Gln Phe Leu Ala Ala Gly Leu His His
                405                 410                 415
Gly Ala Gly Arg Ile His Gly Val Arg Lys Ser
            420                 425
```

<210> 26255
<211> 219
<212> PRT
<213> A.fumigatus

<400> 26255

```
Arg Met Thr Gly Val Phe Trp Thr Ile Pro Phe Phe Arg Phe His Pro
1               5                   10                  15
Ala Thr Lys Ser Thr Gly Phe Gly Ser Ala Glu Met Asp Asn Lys Ile
            20                  25                  30
Glu Ala Asp Gly Lys Pro Ser Thr Trp Lys Lys His Ser Arg Ile Arg
        35                  40                  45
Ile Asp Gly Leu Asn Ile Asp His Leu Asn Arg Gly Val Gln Gly Pro
    50                  55                  60
Phe Ser Trp Ile Tyr Glu Gly Thr Val Asp Ile Val Ala Asp Ile Met
65                  70                  75                  80
Phe Pro Ala Glu Asn Asp Glu Ser Leu Ala Gln Val Met Ala Gly Leu
                85                  90                  95
Tyr Asp Arg Leu Glu Ala Thr Val Ile Ser Asn Gln Tyr Gln Glu Pro
            100                 105                 110
Asp Ser Arg Arg Gln Pro Gly Met Asp Gly Thr Ala Ser Ser Asp Asp
        115                 120                 125
Lys Arg Phe Leu Val Thr Asp Leu Arg Leu Gln Leu Asn Asn Val Arg
    130                 135                 140
Ala Val Val Pro Leu Phe Asn Arg Asp Leu Ser Tyr Ile Asn Asn Ala
145                 150                 155                 160
Leu Ile Arg Pro Ile Val Ala Tyr Ile Asn Ser Arg Arg Thr Phe Ile
                165                 170                 175
Pro Ile His Cys Arg Leu Val Lys Arg Leu Ala Asp Phe Asp Gly Ser
            180                 185                 190
Trp Thr Thr Phe Asp Ser Gly Leu Met Asp Asp Leu Ser Ala Ala Val
        195                 200                 205
Ser Phe Pro Arg Ala Ile Gly Ile His Thr Tyr
    210                 215
```

<210> 26256

<211> 60
<212> PRT
<213> A.fumigatus

<400> 26256
Asn Asn Tyr Arg Leu Glu Gln Thr Leu Ala Phe Ser Ile Ser Ile Leu
1 5 10 15
Leu Pro Val Ser His Leu Ser Val Leu Ser Ser Glu Ile Leu Gln Leu
20 25 30
Leu Val Ala Lys Ile Leu Arg Lys Lys Thr Gln Cys Lys Arg Gln Asn
35 40 45
Tyr Thr Gln Met Pro Val Leu Phe Gln Tyr Tyr Gln
50 55 60

<210> 26257
<211> 64
<212> PRT
<213> A.fumigatus

<400> 26257
Pro Val Arg Ala Pro Ser Ser Ser Trp Trp Ile Ile Gly Arg Val Ile
1 5 10 15
Ser His Asp Val Asp Leu Pro Asn Glu Asp Gly Thr Thr Tyr Ser His
20 25 30
Gly Asn Gly Asn Asp Gly Lys Val His Ser Arg Lys Val Lys Ala Ala
35 40 45
Asp Ala Asn Met Leu Ser Arg Lys Asn Ile Pro Pro Lys Gln Thr Gly
50 55 60

<210> 26258
<211> 88
<212> PRT
<213> A.fumigatus

<400> 26258
Val Pro Leu Pro Gln Arg Cys Thr Gly Val Arg Arg Arg His Phe Pro
1 5 10 15
Thr Val Thr Ala Val Val Ser His Met Pro Phe Ala Leu Val Pro Phe
20 25 30
Ser Leu Pro Met Leu Phe Phe Glu Gln Ala Leu Val Thr Lys Gly Trp
35 40 45
Val Pro Val Phe Ala Tyr Gly Trp Asp His Trp Val Asp Lys Thr Gly
50 55 60
Thr Val Gly Ala Ile Gly Gly Met Gly Phe Val Ser Val Ile Leu Cys
65 70 75 80
Asn Val Ser Cys Glu Ala Leu His
85

<210> 26259
<211> 130
<212> PRT
<213> A.fumigatus

<400> 26259
Arg Ser Arg Thr Cys Ser Thr Asn Leu Ser Arg Leu Leu Gln Phe Ala
1 5 10 15

```
Gly Thr Asn Ile Gly Thr Thr Ile Leu Leu Ser Arg Val Ile Gln Ala
            20                  25                  30
Trp Lys Gln Ile Asn Asp Glu His Gly Thr Phe Ile Ser Asp Arg Thr
        35                  40                  45
Phe Trp Ala Thr Val Tyr Ser Met Ala Ile Gly Val Asn Tyr Gly Ala
    50                  55                  60
Phe Ser Thr Ala Phe Ser Ala Ser Leu Ala Gly Leu Leu Trp Arg Asp
65                  70                  75                  80
Ile Leu Ala Arg Lys His Ile Arg Val Arg Ser Leu Asp Phe Ala Arg
                85                  90                  95
Val Asn Leu Pro Ile Ile Ala Ile Ser Met Ala Val Gly Cys Thr Val
            100                 105                 110
Leu Val Gly Glu Val Tyr Ile Met Arg Asp Asn Ser Pro Tyr Asn Pro
        115                 120                 125
Pro Arg
    130
```

<210> 26260
<211> 62
<212> PRT
<213> A.fumigatus

<400> 26260

```
Leu Arg Leu Ala Gly Met Val Lys Leu Ser Phe Ala Val Ala Val His
1               5                   10                  15
His Ser Asp Ser Phe Lys His Ser Asn Arg Ile Pro Asn Asn Ser Gln
            20                  25                  30
Met Tyr Ser Cys Glu Ile Thr Pro Trp Val Pro Val Arg Asp Gly Glu
        35                  40                  45
Leu Met Met Ala Tyr Asn Gly Trp Asn Pro Met Glu Gln Pro
    50                  55                  60
```

<210> 26261
<211> 173
<212> PRT
<213> A.fumigatus

<400> 26261

```
Arg Trp Asn Thr Ile Met Thr Phe Val Arg Phe Arg Lys Tyr Ile Tyr
1               5                   10                  15
Ala Gly Arg Ala Met Leu Ser Arg Asp Asp Lys Val Lys Thr Gln Asn
            20                  25                  30
Gln Thr Asn Met Tyr Ser Arg Lys Leu Leu Asn Phe Pro Leu Arg His
        35                  40                  45
Phe Ala Thr Arg Thr Pro Ile Leu Arg Ser Ala Arg Pro His Gln Pro
    50                  55                  60
Trp Gln Thr Arg Thr Met Ser Leu Met Gln Arg Gly Gln Arg His Pro
65                  70                  75                  80
Gly Ala Gly Phe Pro Ser Leu Ser Arg Ala Leu Thr Asp Leu Glu Ser
                85                  90                  95
Phe Leu Ser Arg Pro Val Gly Ser His Asp Leu Leu Gly Gln Tyr Pro
            100                 105                 110
Arg Phe Asp Val Arg Glu Thr Lys Asp Ser Tyr Arg Leu Asp Gly Glu
        115                 120                 125
Leu Pro Gly Val Asp Lys Lys Asp Ile Asp Ile Glu Leu Ser Asp Asp
    130                 135                 140
```

```
Asn Val Leu Thr Ile Lys Gly Arg Ser Glu Arg Glu Ser Thr Ser Glu
145                 150                 155                 160
Asp Pro Asp Gln Ser Cys Leu His His Gly Gly Arg Ser
                165                 170
```

<210> 26262
<211> 68
<212> PRT
<213> A.fumigatus

<400> 26262

```
Gly Ser Ser Gln Arg Gly Ala Gly Phe Arg Gly Tyr Val Phe Phe Phe
1               5                   10                  15
Phe Phe Gly Leu Asn Met Asn Arg Glu Arg Tyr Ala Asn Met Leu Lys
            20                  25                  30
Val Ile Ala Arg Ser Ala Leu Ala Gln Glu Glu Ala Glu Glu Phe Asn
        35                  40                  45
Gly Glu Phe Ser Asp Pro Ile Asn Ile His Leu Asp Ser Asp Arg Asp
    50                  55                  60
Gly Cys Ala Cys
65
```

<210> 26263
<211> 70
<212> PRT
<213> A.fumigatus

<400> 26263

```
Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Leu Gly Val Ala
1               5                   10                  15
Phe Tyr Arg Gly Ala Asp Cys Cys Val Leu Val Tyr Asp Val Asn Asn
            20                  25                  30
Ser Lys Ser Phe Glu Ala Leu Asp Ser Trp Arg Asp Glu Phe Leu Ile
        35                  40                  45
Gln Val Ser Pro Arg Asp Pro Glu Ser Phe Pro Phe Val Arg Ser His
    50                  55                  60
Leu Pro Leu Thr Asp Leu
65                  70
```

<210> 26264
<211> 69
<212> PRT
<213> A.fumigatus

<400> 26264

```
Cys Ala Asn Gly Gln Met Val Thr Ile Leu Gln Val Val Ile Gly Asn
1               5                   10                  15
Lys Ile Asp Val Glu Glu Ser Lys Arg Met Ile Phe Ser Lys Arg Ala
            20                  25                  30
Met Thr Phe Cys Gln Ser Lys Gly Asn Ile Pro Tyr Phe Glu Thr Ser
        35                  40                  45
Ala Lys Glu Ala Val Asn Val Glu Gln Ala Phe Glu Gly Met Phe Phe
    50                  55                  60
Phe Phe Phe Leu Ala
65
```

<210> 26265
<211> 371
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (369),(370)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26265

```
Ile Ser Pro Asp Pro Arg Ala Phe Arg Val Ser Ser Ile Pro Ser Leu
1               5                  10                  15
Trp Leu Gly Ile Leu Leu Val Ser Arg Ser Arg Ala Val Phe Ala Ala
            20                  25                  30
Ser Trp Ile Val Ile Asp His Ser Leu Val Pro Ser Phe Arg Trp His
        35                  40                  45
Glu His Asp Pro Leu Glu Leu Val Asp Ser Val Tyr Thr Cys Ile Glu
    50                  55                  60
Glu Ala Met Lys Thr Phe Leu Ala Leu Gly His Ser Lys Ser Asp Ile
65                  70                  75                  80
Glu Ala Ile Gly Ile Thr Ser Gln Arg Glu Thr Thr Leu Cys Trp Asp
                85                  90                  95
Trp Glu Thr Gly Glu Pro Leu His Asn Ala Ile Ala Trp Pro Asp Thr
            100                 105                 110
Arg Thr Lys Asn Leu Val Arg Glu Leu Lys Glu Gln Glu Gly Ser Asp
        115                 120                 125
Glu Leu Pro Ala Ile Cys Gly Leu Pro Leu Ser Thr Tyr Pro Ser Ser
    130                 135                 140
Val Ser Leu Val Trp Leu Leu Arg His Ser Pro Lys Val Lys Gln Ala
145                 150                 155                 160
Tyr Asp Glu Gly Arg Leu Ala Phe Gly Thr Val Asp Ser Trp Leu Leu
                165                 170                 175
Tyr Asn Leu Asn Gly Gly Pro Gln Ala Gly Arg His Val Thr Asp Val
            180                 185                 190
Thr Asn Ala Ser Arg Thr Met Phe Met Asn Leu Glu Ala Leu Gln Tyr
        195                 200                 205
Asp Asp Arg Leu Leu Asn Phe Phe Gly Ile Asp Lys Thr Lys Ile Arg
    210                 215                 220
Leu Pro Lys Ile Leu Pro Ser Ser Asp Pro Asp Gly Tyr Gly Tyr Val
225                 230                 235                 240
Arg Phe Gly Pro Leu Asp Gly Ile Pro Ile Thr Ser Cys Leu Gly Asp
                245                 250                 255
Gln Ser Ala Ala Leu Val Gly His Cys Ala Phe Thr Pro Gly Thr Ala
            260                 265                 270
Lys Asn Thr Tyr Gly Thr Gly Cys Phe Leu Leu Tyr Asn Val Gly Glu
        275                 280                 285
Lys Pro Val Ile Ser Lys His Gly Leu Leu Ala Thr Val Gly Phe Gln
    290                 295                 300
Leu Gly Lys Asn Arg Lys Pro Val Tyr Ala Leu Glu Gly Ser Val Ala
305                 310                 315                 320
Val Ala Gly Ser Gly Ile Ser Phe Leu Met Asn Asn Leu Gly Phe Phe
                325                 330                 335
Arg Asp Ser Arg Lys Val Ser Asp Leu Ala Ala Thr Val Pro Asp Ser
            340                 345                 350
Gly Gly Cys Val Phe Val Thr Ala Ser Ser Pro Ala Arg Gly Glu Gly
```

355 360 365
Xaa Xaa Val
370

<210> 26266
<211> 90
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (23)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26266
Gly Thr Arg Pro Arg Pro Phe Asp Leu Thr Glu Asn Asp Phe Ala Val
1 5 10 15
Lys Glu Gln His Ala His Xaa Glu Ile Cys Ala Ser Gln Ser His Asp
20 25 30
Gly Asn Arg Ser Leu Leu Gln Asn Glu Asn Arg Arg Gly Asp Asn Leu
35 40 45
Lys Asp Arg Phe Ile Gly Ala Ile Asp Gln Gly Thr Thr Ser Ser Arg
50 55 60
Phe Ile Ile Phe Asp Cys Thr Gly Val Pro Val Ala Lys Tyr Gln Thr
65 70 75 80
Glu Phe Arg Gln Ile His Glu His Ser Gly
85 90

<210> 26267
<211> 100
<212> PRT
<213> A.fumigatus

<400> 26267
Arg Arg Ser Asp Lys Asn Ala Thr Ser Ala Val Gly Asn Ser Ser Gly
1 5 10 15
Lys Ile Thr Asn Phe Ala Arg Ile Thr Glu Glu Pro Glu Val Val His
20 25 30
Glu Glu Gly Asn Thr Thr Ser Gly Asp Gly Asn Thr Ser Phe Lys Gly
35 40 45
Val His Arg Leu Ser Ile Phe Thr Gln Leu Glu Ala Asn Ser Gly Lys
50 55 60
Gln Ala Val Leu Arg Asn Tyr Gly Phe Leu Thr Asp Val Val Glu Gln
65 70 75 80
Glu Ala Thr Gly Ala Ile Cys Val Leu Arg Cys Ala Trp Cys Lys Gly
85 90 95
Ala Val Thr Asp
100

<210> 26268
<211> 87
<212> PRT
<213> A.fumigatus

<400> 26268
Ser Met Trp Ala Gly Ala Phe Leu Lys Ala Gln Glu Pro Ser Ser Arg

```
1               5                   10                  15
Asp Ile Ala Cys Ser Gly Arg Ala Cys Leu Ile Asn Arg Arg Phe Leu
            20                  25                  30
Gln Cys Ser Gln Phe Leu Cys Asn Pro Asn Arg Ile Pro Leu Ala Leu
        35                  40                  45
Gln Ser Ile Asp Pro Tyr Ser Ile Phe Cys Glu Val Ile Val Arg Ser
    50                  55                  60
Asn Lys Arg Glu Arg Arg Gly Gln Cys Arg Lys Pro Ile Ala Pro Trp
65                  70                  75                  80
Pro Pro Gly Tyr Lys Thr Arg
                85
```

<210> 26269
<211> 70
<212> PRT
<213> A.fumigatus

<400> 26269

```
Pro Thr Val Val Lys Thr Trp Tyr Ser Lys Tyr Asn Glu Val Lys Asp
1               5                   10                  15
Asn Asn Ser Ala Trp Ser Glu Leu Gly Asn Gln Glu Val Phe Phe Trp
            20                  25                  30
Lys Ile Thr Thr Ile Lys Asn Gly Asn Leu Ser Val Ser Val Asn Val
        35                  40                  45
Leu Arg Ile Glu Lys Ser His Asn Cys Thr Ala Ala Ala Arg Val Glu
    50                  55                  60
Ile Trp Lys Asp Glu Gly
65                  70
```

<210> 26270
<211> 60
<212> PRT
<213> A.fumigatus

<400> 26270

```
Leu Val Lys Val Tyr Cys Ile Arg Lys Glu Ser Lys Gly Asn Asn Thr
1               5                   10                  15
Ile Ile Phe Ala Cys Leu Gln Glu Ile Asn Ser Lys Ile Glu Ala Met
            20                  25                  30
Ala Ile Lys Asp Lys Tyr Leu Phe Leu Ser Pro Leu Tyr Thr Leu Ile
        35                  40                  45
Tyr Arg Leu Asn Lys Thr Leu Lys Leu Leu Lys Gly
    50                  55                  60
```

<210> 26271
<211> 75
<212> PRT
<213> A.fumigatus

<400> 26271

```
Ser Ile Phe Cys Thr Gly Arg Ala Ile Cys Phe Gly Phe Val Ala Gln
1               5                   10                  15
Lys Pro Ile Tyr Leu Ala Leu Gly Gly His Phe Ser Ser Gln Tyr Glu
            20                  25                  30
Ala Leu Arg Phe Val Glu Leu Ser Tyr Thr Gln Asn Leu Leu Phe Phe
        35                  40                  45
```

```
Ala Gly Arg Asn Gly Cys Phe His Lys Glu Asp Leu Gly Arg Ala Cys
    50                  55                  60
Gln Gln Arg Leu Ala Pro Lys Arg Ile Ile Val
65                  70                  75
```

<210> 26272
<211> 64
<212> PRT
<213> A.fumigatus

<400> 26272

```
Ser Ser Asp Ile Ala Arg Glu Phe Ser Ser Tyr Asn Pro Asp Gln Asp
1               5                   10                  15
Ser Tyr Pro Glu Val Glu Tyr Ser Glu Val Met Ser Asp Asp Ala Ala
            20                  25                  30
Leu Leu Arg Trp Phe Asp Glu Ile Val Ser Ser Ser Phe Thr Gln Gly
        35                  40                  45
Met Leu Asn Ser Ser His Gln Ser Ser Thr Asn Gly Val Ser Val Leu
    50                  55                  60
```

<210> 26273
<211> 182
<212> PRT
<213> A.fumigatus

<400> 26273

```
Arg Cys Val Cys Ser Pro Phe Asn Leu Arg Arg Pro Ser Leu Trp Arg
1               5                   10                  15
His Glu Thr Asp Gly Asn Ser Ala Tyr Pro Thr Tyr Thr Asp Arg Pro
            20                  25                  30
Gly Met Pro Val Val Ala Lys Leu Pro Asn Gly Lys Tyr Ile Tyr Thr
        35                  40                  45
Tyr Glu Tyr Gly Ser Phe Phe Gly Thr Asp Ser Tyr Ser Phe Pro Val
    50                  55                  60
Tyr Tyr Arg Ile Ser Ser Asp Pro Glu Asn Phe Leu Ser Ala Pro His
65                  70                  75                  80
Gln Arg Leu Val Thr Thr Thr Gly Tyr Val Pro Thr Ser Ser Pro Tyr
                85                  90                  95
Val Val Trp Thr Pro Tyr Gly Gly Val Asn Gly Thr Ile Ile Val Ser
            100                 105                 110
Ala Tyr Ser Ser Ser Ser Val Phe Ile Asn Gln Ala Leu Gly Glu Gly
        115                 120                 125
Pro Trp Arg Glu Ile Pro Thr Gly Glu Pro Asn Ala Tyr Thr Arg Ser
    130                 135                 140
Leu Arg Val Leu Lys Lys Asp Pro Lys Met Ile Leu Ile Asn Gly Ala
145                 150                 155                 160
Gly Glu Leu Asn Gly Glu Asn Asn Lys Val Thr Val Thr Leu Leu Asn
                165                 170                 175
Leu Glu Glu Ala Leu Arg
            180
```

<210> 26274
<211> 178
<212> PRT
<213> A.fumigatus

<400> 26274
Pro Arg Gly Gly Ser Pro Phe Leu Lys Val Ser Val Ser Phe Arg Gly
1 5 10 15
Ser Lys His Ile Val Pro Val Gln Phe Leu Thr Ile Arg Asp Ser Asn
20 25 30
Gly Lys Leu Ile Cys Tyr Tyr Ser Asp Gln Arg Ala Asn Ala Thr His
35 40 45
Gly Gln Lys Met Val His Gln Val Ser Thr Asp Leu Lys Asn Trp Asp
50 55 60
Pro Val Val Asp Asp Val Tyr Val Pro Pro Ser Thr Cys Val Asp His
65 70 75 80
His Cys Gly Asp Thr Arg Leu Thr Val Thr Val Pro Thr Gln Pro Thr
85 90 95
Pro Ile Val Pro Ala Cys Pro Trp Ser Pro Ser Ser Pro Met Ala Ser
100 105 110
Thr Ser Thr Pro Thr Asn Met Ala Pro Ser Ser Ala Pro Thr Ala Thr
115 120 125
Leu Ser Pro Ser Thr Thr Val Ser His Pro Thr Arg Arg Thr Ser Cys
130 135 140
Arg Leu Leu Thr Ser Ala Trp Ser Arg Pro Arg Ala Met Ser Pro Pro
145 150 155 160
Arg Arg Arg Met Leu Ser Gly Pro Arg Thr Ala Ala Ser Thr Ala Pro
165 170 175
Ser Ser

<210> 26275
<211> 297
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (34),(36),(39),(107)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26275
Val Glu Thr Lys Trp Thr Phe Leu Trp Arg Ser Leu Cys Ser Met Thr
1 5 10 15
Phe His Ala Leu Thr Arg Ser Ile Asn Ser Gly Ile His Ala Glu Met
20 25 30
Arg Xaa Gly Xaa Gly Tyr Xaa Gly Phe Leu Phe Gly Glu Pro Ala Ile
35 40 45
Gln Ile Ser Leu Asp Lys Cys Glu Asp Leu Met Asp Ser Leu Ile Glu
50 55 60
Cys Ala Glu Asp Gln Ala Asp Leu Leu Ala Glu His Ala Val Glu Val
65 70 75 80
Ser Asp Val Met Leu Leu Pro Ser Tyr Glu Glu Val Thr Arg Gly Cys
85 90 95
Gln Thr Val Trp Thr Ser Leu Ala Asp Val Xaa Glu Phe Gly Ser Leu
100 105 110
Glu Tyr Glu Leu Asp Arg Ala Val Asp Arg Leu Ile Cys Ile Thr Thr
115 120 125
Ile Leu Arg Asn Leu Ser Phe Thr Glu Ser Asn Phe Gly Leu Leu Ser
130 135 140
Thr Ala Pro Val Val Gln Phe Ile Ser Thr Ile Ile Arg Tyr Leu Gly

```
145                 150                 155                 160
Thr Arg Asn Met Leu Phe Arg Thr His Gln Asn Thr Leu Asp Phe Met
                165                 170                 175
Lys Asp Ala Val Ile Tyr Leu Ser Asn Leu Ala His Val Ile Gln Leu
            180                 185                 190
Pro Ser Lys Glu Glu Ala Leu Cys Leu Leu Asn Phe Leu Leu Ser Phe
        195                 200                 205
Ala Pro Phe Pro Pro Pro Thr Leu Gly Thr Asp Gly Val Met Phe Thr
    210                 215                 220
Ser Tyr Asn Ala Ser Ile His Lys Tyr Thr Pro Ala Ala Val Asp Ser
225                 230                 235                 240
Leu Ala Lys Leu Leu Ala Arg Asp Asp Pro Asn Arg Thr Phe Phe Lys
                245                 250                 255
Ala Ile Phe Ser Gly Asp Gly Ala Pro Gly Ser Gln His Glu Leu Leu
            260                 265                 270
Thr Arg Ala Phe Gly Leu Ala Ile Cys Pro Val Pro Gly Val His His
        275                 280                 285
Arg Gly Arg Lys Val Arg Ala Lys Arg
    290                 295
```

Sequence Listing

<210> 26276
<211> 262
<212> PRT
<213> A.fumigatus

<400> 26276

```
Asp Val Gly Gln Phe Thr Trp Ile Pro Ile Pro Ile Val Gly Gly Arg
1               5                   10                  15
Pro Ile Asn Leu Val Gln Leu Tyr Ala Thr Ile Met Lys Leu Gly Gly
            20                  25                  30
Ser Lys Lys Val Ser Ala Ser Asn Met Trp Arg Val Val Ala Gln Gln
        35                  40                  45
Leu Gln Phe Leu Pro Met Gln Phe His Met Ala Val Gln Glu Ile Arg
    50                  55                  60
Glu His Tyr Gln Arg Asn Leu Ala Ala Tyr Glu Gln Ala Phe Leu Ser
65                  70                  75                  80
Thr Gln Gln Lys Gln Phe Ala Asp Gln Met Gln Gln Asn Ser Leu Pro
                85                  90                  95
Arg Gln Pro Ser Asp Ser Ser Ala Val Gln Phe Gln Ser Pro Thr Val
            100                 105                 110
Lys Gln Ala Gln Gly Phe Glu Val Pro Gln Pro Val Gly Ala Ser Pro
        115                 120                 125
Gly Ser Met Ser Val Ala Asn Asn Ala Gln Gln Ser Leu Pro Asn Gly
    130                 135                 140
Phe Ala Thr Pro Thr Gln Val Lys Ala Ser Asn Lys Gln Gln Gln His
145                 150                 155                 160
Arg Leu Ser Val Ser Arg Gln Ser Gln Pro Pro Ala Thr Pro Gln Asp
                165                 170                 175
Cys Thr Gly Gln Leu Pro Asn Gln Ser Pro Ala Gln Ser Thr Lys Pro
            180                 185                 190
Leu Gly Gly Thr Pro Gly Lys Ser Ala Lys Ser Phe Glu Gln Pro Ser
        195                 200                 205
Asp Gln Pro Leu Lys His Pro Ile Gln Asp Pro Phe Lys Pro Met Val
    210                 215                 220
Leu Pro Glu Ser Asn Leu His Gly Pro Ile Val Leu Asp Glu Met Tyr
225                 230                 235                 240
```

```
Gln Leu Gly Glu Glu Ile Thr Arg Leu Lys Pro Asn Gly Pro Ser Phe
                245                 250                 255
Gly Gly Val Cys Val Gln
            260
```

<210> 26277
<211> 159
<212> PRT
<213> A.fumigatus

<400> 26277

```
Thr Ser Ser Gly Lys Ala Gly Pro Lys Arg Ala Asp Lys Ser Asn Gly
1               5                  10                  15
Phe Asp Leu Leu Cys Ser Gly Gln Thr Pro Arg Thr Glu Val Glu Lys
            20                  25                  30
Ala Glu Tyr Glu Arg Val Phe Glu Glu Val Pro Ala Pro Phe Thr Gln
        35                  40                  45
Glu Glu Arg Asp Ser Trp Leu Ser Lys Met Gly Glu Val Ala Val Ser
    50                  55                  60
Ser Asp Ala Phe Val Ser Asp Leu Thr Thr Leu Phe Arg Val Phe Val
65                  70                  75                  80
Ala Cys Thr Asp Ala Glu Ser Asn Ser Ser Pro Ser Ser Thr Thr Cys
                85                  90                  95
Ser Val Gln Leu Val Arg Val Pro Ser Thr Ser Leu Pro Pro Ala Val
            100                 105                 110
Ala Arg Thr Thr Ala Pro Ser Leu Arg Arg Pro Arg Ser Leu Val Ser
        115                 120                 125
Ser Ser Ser Asn Arg Ala Pro Val Cys Ser Thr Thr Arg Cys Glu Glu
    130                 135                 140
Phe Thr Thr Val Leu Val Gly Asp Asp Thr Ala Val Met Phe Ala
145                 150                 155
```

<210> 26278
<211> 257
<212> PRT
<213> A.fumigatus

<400> 26278

```
His Phe Gly Pro Gln Asp Asn Arg Arg Pro Val Asn Gly Asp Gly Phe
1               5                  10                  15
Gly Val Gly Phe Tyr Thr Asp Pro Lys Leu Gly Pro Glu Pro Cys Ile
            20                  25                  30
Phe Thr Ser Thr Leu Pro Ala Trp Asn Cys Glu Asn Leu Glu Arg Leu
        35                  40                  45
Ala Ser Lys Thr Cys Ser Asn Leu Ile Phe Ala His Val Arg Ala Thr
    50                  55                  60
Thr Glu Gly Thr Leu Ser Asp Thr Asn Cys His Pro Phe Gln His Gln
65                  70                  75                  80
Thr Leu Met Trp Met His Asn Gly Asn Val Gly Gly Trp His Tyr Ile
                85                  90                  95
Lys Arg Thr Leu Ala Asp Ser Leu Ala Asp Lys Trp Tyr Leu Gly Val
            100                 105                 110
Lys Gly Gly Thr Asp Ser Glu Trp Ala Phe Ala Leu Phe Leu Asp Leu
        115                 120                 125
Leu Glu Lys Glu Gly Val Asp Pro Ser Ser Asn Pro Gly Pro Glu Gly
    130                 135                 140
```

```
Phe Gly Gln Ala Leu Leu Arg Lys Val Met Val Lys Thr Ile Ala Lys
145                 150                 155                 160
Ile Asn Glu Phe Ile Arg Asp Ile Pro Lys Arg His Asn Val Ser Gly
                165                 170                 175
Val Glu Thr Arg Ser Leu Leu Asn Phe Ala Val Thr Asp Gly His Thr
            180                 185                 190
Val Val Cys Thr Arg Tyr Ile Ser Ser Lys Thr Asp Glu Pro Ala Ser
        195                 200                 205
Leu Tyr Phe Ser Ser Gly Thr Lys Trp Lys Glu Arg Lys Asp Lys Gly
    210                 215                 220
His Phe Lys Met Glu Arg His Asp Lys Gly Ala Asn Ile Val Leu Val
225                 230                 235                 240
Ala Ser Glu Pro Thr Pro Ser Asn Ala Val Ser Gln Ser Ile His Pro
                245                 250                 255
Leu
```

<210> 26279
<211> 234
<212> PRT
<213> A.fumigatus

<400> 26279

```
Ile Gly Val Leu Thr Ile Ser Gln Gln Ser Thr Lys Arg Ser Thr Gly
1               5                   10                  15
Gly Arg Val Trp Pro Ser Tyr Ile Arg Gln Tyr Thr Gly Ala Asn Ile
            20                  25                  30
Tyr Asp Tyr Ala Trp Ser Gly Ala Val Cys Asp Ala Val Val Ala Asn
        35                  40                  45
Thr Val Arg Asn Gly Ile Lys Gln Asn Gln Ile Pro Thr Phe Leu Glu
    50                  55                  60
Asp Asn Ile Tyr Val Ser Asp Ile Thr Gly Gln Pro Thr Leu Ile Asn
65                  70                  75                  80
Pro Pro Asp Glu Thr Val Tyr Ala Ile Trp Ile Gly Thr Asn Asp Ile
                85                  90                  95
Gly Tyr Gly Gly Phe Leu Thr Glu Val Gln Pro Ala Gly Met Ser Leu
            100                 105                 110
Thr Tyr Met Thr Asp Cys Val Tyr Ala Gln Leu Asp Arg Leu Tyr Ala
        115                 120                 125
Ile Gly Ala Arg Ala Phe Val Leu Met Asn Met Ala Pro Leu Asp Leu
    130                 135                 140
Thr Pro Leu Tyr Ala Leu Pro Gln Asn Gly Gly Ser Leu Asp Ala Gln
145                 150                 155                 160
Tyr Trp Thr Asp Lys Ala Ala Tyr Asp Ser Asn Ile Thr Arg Ser Ser
                165                 170                 175
Glu Lys Met Arg Gln Tyr Val Thr Met Val Asn Ala Ile Tyr Asp Tyr
            180                 185                 190
Gln Thr Pro Tyr Asp Val Val Val Ala Asn Arg Tyr Pro His Ser Arg
        195                 200                 205
Phe Ala Val Tyr Asp Val His Ala Leu Val Gly Leu Arg Phe Ser Ser
    210                 215                 220
Thr Pro Pro Leu Gly Cys Gly Thr Phe Asp
225                 230
```

<210> 26280
<211> 71

<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (44),(58),(60),(68),(71)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26280
Leu Asn Ala Ile Gly Glu Val Asp Gln Ile Phe Ala Pro Gly Thr Ala
1 5 10 15
Leu Arg Leu Ile Glu Phe Val Phe Gln Leu Ser Gly Arg Thr Ile Ile
20 25 30
Ser Asp Leu Val Val Lys Phe Gly Gly Ala Cys Xaa Asn Arg Gly Thr
35 40 45
Phe Ile Pro Gly Tyr Ser Gly Thr Gly Xaa Gly Xaa Lys Ala Leu Pro
50 55 60
Asp Leu Gly Xaa Cys Gly Xaa
65 70

<210> 26281
<211> 64
<212> PRT
<213> A.fumigatus

<400> 26281
Ile Cys Ser Asn Glu Asn Asn Met Gly Tyr Glu Leu Pro Glu Ser Phe
1 5 10 15
Gly Pro His Ser His Met Arg Val Pro Asn Val Leu Leu Ala Phe Thr
20 25 30
Thr Phe Phe Gly Asn Val Leu Lys Asn Ser Ala Tyr Asn His Ile Leu
35 40 45
Arg Arg Asn Asn Glu Tyr Gly Asn Met Val Thr Ser Cys Gln Cys Gly
50 55 60

<210> 26282
<211> 128
<212> PRT
<213> A.fumigatus

<400> 26282
Ser Ala Leu Glu Gln Glu Gly Glu Lys Ile Ile Ala Met Pro Pro Pro
1 5 10 15
Gly Leu Phe Gly Arg Leu Ile Gln Asn Lys Arg Arg Leu Leu Trp Glu
20 25 30
Lys Arg Glu Gly Val Asp Ala Thr Leu Ile Val Ala Asp Val Lys Phe
35 40 45
Gly Val His Ser Met Ile Leu Gly Ala Glu Ser Pro Ile Leu Gln Ser
50 55 60
Arg Phe Gln Ala Ser Leu Arg Lys Ser Gly Leu Arg Glu Ile Ile Ile
65 70 75 80
Glu Glu Ala Asp Ile His Thr Val Trp Arg Thr Leu Met Leu Ile Tyr
85 90 95
Leu Gly Tyr Tyr Ser Thr Ser Pro Cys Pro Lys Val Ala Thr Ser Gly
100 105 110
Ala Phe Ile Ser Ser Ser Ser Thr Thr Gly Ala Gly Arg Asn Arg Ala

115 120 125

<210> 26283
<211> 187
<212> PRT
<213> A.fumigatus

<400> 26283
Ala Val Arg Gln Ser Arg Gly Glu Asp Gly Met Leu Ile Ala His Lys
1 5 10 15
Phe Trp Glu Asn Ala Met Asn Ile Leu Leu Phe Gln Glu Lys Asp Ser
20 25 30
Leu Ser Pro Leu Val Arg Ile Leu Thr Lys Leu Arg Leu Pro Gln Val
35 40 45
Ile Cys Glu Lys Val Glu Lys Ser Asp Ile Ala Thr Ile Asp Lys Lys
50 55 60
Lys Tyr Leu Val Pro Ala Asp Leu Thr Val Gly Gln Phe Val Tyr Val
65 70 75 80
Ile Arg Lys Arg Ile Lys Leu Ser Pro Glu Lys Ala Ile Phe Ile Phe
85 90 95
Val Asp Glu Val Leu Pro Pro Thr Ala Ala Leu Met Ser Ser Ile Tyr
100 105 110
Glu Glu His Lys Asp Glu Asp Gly Phe Leu Tyr Ile Thr Cys Val Ile
115 120 125
Pro Pro Leu Ser Ser Leu Arg Thr Cys Ile Asn Ser Arg Ser Asp Thr
130 135 140
Leu Ala Arg Thr Leu Ser Val Thr Ala Glu Tyr Gln Trp Val Leu Leu
145 150 155 160
Ser Lys Trp Asn Ser Pro His Arg Gln Gly Val Arg Phe Thr Asn Leu
165 170 175
Arg Phe Lys Phe Val Ser Lys Ser Ile Asp Pro
180 185

<210> 26284
<211> 125
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (2),(5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26284
Ala Xaa Ile Phe Xaa Pro Arg Gly Glu Asp Val Ala Ser Tyr Asp Gln
1 5 10 15
Ile Lys Ser Leu Pro Tyr Leu Arg Ala Val Ile Asp Glu Ser Leu Arg
20 25 30
Leu Tyr Pro Pro Ile Ser His Gly Leu Pro Arg Glu Thr Pro Lys Glu
35 40 45
Gly Met Met Ile Met Asp Gln Trp Val Pro Gly Asn Thr Thr Val Ser
50 55 60
Met Ser Ala Tyr Val Ala His Arg Asp Pro Ala Val Phe Asp Gln Pro
65 70 75 80
Glu Ser Phe Val Pro Glu Arg Trp Leu Gly Glu Gln Gly Ala Gly Pro
85 90 95

```
Ala Asn Pro Phe Tyr Arg Leu Leu Ser Trp Arg Thr Arg Leu Tyr Trp
            100                 105                 110
Ala Pro Asp Leu Leu Pro Thr Ser Gln His Pro Pro Ser
        115                 120                 125

<210> 26285
<211> 75
<212> PRT
<213> A.fumigatus

<400> 26285
Glu Ser Lys Gly Arg Ala Leu Gln Thr Arg Phe Ile Ala Phe Ser Ala
1               5                   10                  15
Gly Ala Arg Gly Cys Ile Gly Arg Pro Ile Ser Tyr Leu Gln Ala Ser
            20                  25                  30
Ile Leu Leu Ala Asn Leu Val His Gln Tyr Asp Phe Glu Met Trp Asp
        35                  40                  45
Pro Lys Trp Lys Pro Ser Thr Arg Glu Thr Met Asn Pro Ile Met Gly
    50                  55                  60
Pro Met Pro Val Arg Ile His Lys Arg Ser Thr
65                  70                  75

<210> 26286
<211> 70
<212> PRT
<213> A.fumigatus

<400> 26286
Ala Asn Thr Phe Asp Pro Trp Leu Ser Gly Arg His Asp Val Ala Val
1               5                   10                  15
Cys Glu Ala Gly Cys Arg His Val Gly Leu Asp Ile Lys Gly Lys Asp
            20                  25                  30
Gln Ala Asn Pro Ser Ala Met Ile Leu Ser Gly Ser Met Leu Leu Arg
        35                  40                  45
His Leu Gly Leu Asp Asp His Ala Asn Arg Ile Ser Lys Ala Val Tyr
    50                  55                  60
Asp Val Ile Gly Glu Gly
65                  70

<210> 26287
<211> 192
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26287
Leu Glu Ser Xaa Leu Ser Phe Arg Leu Lys Ile Ala Ile Leu Asn Asp
1               5                   10                  15
Pro Ile Asn Ser Ser Arg Ala Phe Lys Cys Thr Phe Lys Arg Gln Thr
            20                  25                  30
His Ala Lys Val Ser Arg Ala Arg Leu Lys His Arg Pro Leu Ala Gln
        35                  40                  45
```

```
Leu Pro Ala Pro Ile Ala Ala Gln Ala Pro Phe Ala Thr Thr Ala Ala
    50                  55                  60
Gly Pro Lys Arg Lys Asn Thr Gln Lys Pro Ala Pro Met Ser Val Glu
65                  70                  75                  80
Glu Ala Ala Arg Ile Ala Ala Glu Glu Asp Lys Arg Arg Arg Asn Thr
                85                  90                  95
Ala Ala Ser Ala Arg Phe Arg Val Lys Lys Lys Leu Arg Glu Gln Ala
            100                 105                 110
Leu Glu Lys Thr Val Lys Glu Thr Thr Glu Lys Asn Ala Ala Leu Glu
        115                 120                 125
Ala Arg Val Thr Ala Leu Glu Leu Glu Asn Gln Trp Leu Lys Asn Leu
    130                 135                 140
Ile Thr Glu Lys Asn Gly Lys Ser Ala Glu Glu Thr Lys Lys Ser Glu
145                 150                 155                 160
Thr Asp Ile Ala Asn Met Phe Lys Lys Phe Leu Ser Ser Gln Lys Ala
                165                 170                 175
Asp Ala Glu Arg Ser Ser Ser Glu Ser Lys Ile Gly Val Gly Thr Ala
            180                 185                 190
```

<210> 26288
<211> 479
<212> PRT
<213> A.fumigatus

<400> 26288

```
Arg Gly Thr Ile Ala Cys Ala Ala Asp Ser His Ala Tyr Ala Leu Leu
1               5                   10                  15
Asp Val Glu His Gln Gln Lys Ile Pro Leu Phe Pro Ile Ser Ser Ser
            20                  25                  30
Asn Glu Ala Phe Glu Ser Gly His Val Glu Asp Met Pro Ser Ala Pro
        35                  40                  45
Ser Pro Thr Ser Gln Gly Thr Arg Ser His Ala Arg Ser Pro Ser Ser
    50                  55                  60
Asn Thr Leu Leu Gly Met Leu Gln Pro Asn Pro Pro His Leu Gln His
65                  70                  75                  80
Asp Arg Ser Arg Ser Ala Thr Pro Glu Leu Ser Pro Asp Ser Gly Thr
                85                  90                  95
Pro Arg Arg Ser Val Ser Arg Asp Arg Ser Arg Ser Ala Ser Pro Arg
            100                 105                 110
Ala Ser Thr Glu Ile Arg Ala Gly Glu Pro Gln Pro Gly Ser Val Ser
        115                 120                 125
Asp Thr Lys Pro Leu Pro Pro Leu Pro Lys Gln Leu Lys Pro His Ile
    130                 135                 140
Ala Ser Pro Thr Pro Ser Glu Phe Leu Leu Val Thr Gly Thr Glu Glu
145                 150                 155                 160
Lys Glu Pro Gly Val Gly Met Phe Val Asn Leu Asp Gly Asp Val Val
                165                 170                 175
Pro Arg Gly Thr Leu Asn Phe His Arg Tyr Pro Glu Tyr Ile Val Ile
            180                 185                 190
Asp Ser Gly Glu Gly Asn Asn Leu Val Asp Ser Arg Glu Lys Thr His
        195                 200                 205
Asp Gln Tyr Ile Leu Ala Val Ile Glu Thr Asp Glu Asp Gly Lys Arg
    210                 215                 220
Cys Lys Trp Leu Glu Ile Gln Pro Trp Asp Val Asp Pro Arg Glu Glu
225                 230                 235                 240
Glu Asn Cys Lys Ser Trp Leu Glu Val Pro Ser Thr Glu Asp Met Pro
```

```
                245                 250                 255
Pro Cys Pro Val Gly Ile Cys His Thr Ile Ser Ser Ser Gln Leu Glu
            260                 265                 270
Phe Gly Glu Leu Gly Asn Leu Leu Gln Met Val Arg Leu Lys Thr Pro
        275                 280                 285
Ser Leu Ser Pro Tyr Leu Pro Val Thr Asp Pro Arg Thr Gln Ala Ser
    290                 295                 300
Ile Glu Gln Leu Gln Lys Glu Lys Glu Leu Phe Glu Ser Gln Glu Leu
305                 310                 315                 320
Thr Asp Ser Asp Gly Val Arg Arg Gly Asp Gly Ser Pro Glu Gln Gly
                325                 330                 335
Trp Glu Ala Glu Arg Asn Asn Glu Lys Thr Lys Phe Ala Arg Ala Leu
            340                 345                 350
Gly Gln Ala Gln Ser Ser Leu Val Met Trp Ser Gly Arg Arg Ile Trp
        355                 360                 365
Arg Val Val Arg Asn Pro Leu Thr Thr Gln Leu Asp Ser Ala Leu Gln
    370                 375                 380
Ala Ala Gln Gly Ser Lys Asp Leu Met Tyr Glu Asp Leu Lys Arg Asp
385                 390                 395                 400
Ser Ile Leu Asp Val Phe Glu Glu Ile Gln Ala Pro Gln Pro Arg Ser
                405                 410                 415
Glu Thr Glu Phe Leu Gly Leu Asn Phe Leu Lys Gln Lys Ser Ser Leu
            420                 425                 430
Leu Leu Phe Gly Asp Leu Leu Phe Arg Asp Ala Ala Ala Pro Lys Glu
        435                 440                 445
Ala Ala Gly Gln Val Thr Glu Arg Val Leu Asn Asn Trp Lys Val Trp
    450                 455                 460
Ile Pro Arg Met Val Leu Leu Leu Ile Pro Gln Pro Lys Gly Ala
465                 470                 475

<210> 26289
<211> 198
<212> PRT
<213> A.fumigatus

<400> 26289
Gln Ala Asp His Ser Thr Gly Tyr Ser Ile Pro Leu Leu Asp Ser Asp
1               5                   10                  15
Val Ser Val Ala Lys Lys Met Phe Asp Val Asn Val Phe Gly Val Val
            20                  25                  30
Thr Val Thr Gln Ala Phe Ala Pro Leu Leu Ile Ala Ser Lys Gly Thr
        35                  40                  45
Ile Ile Asn Ile Gly Ser Val Leu Gly Lys Met Pro Leu Pro Trp Gln
    50                  55                  60
Ala Tyr Tyr Asn Ala Ser Lys Ala Ala Val Ala Leu Leu Thr Asp Gln
65                  70                  75                  80
Met Arg Ile Glu Leu Ser Pro Trp Gly Val Arg Ala Ile Leu Val Asn
                85                  90                  95
Thr Gly Ala Val Arg Thr Lys Phe Phe Asp Asn Leu Pro Asn Thr Pro
            100                 105                 110
Val Leu Pro Glu Ser Ser Leu Tyr Tyr Pro Ala Lys Asp Val Ile Glu
        115                 120                 125
Pro Ala Leu Ala Gly Ser Glu Val Glu Lys Asn Ala Met Asp Val Asn
    130                 135                 140
Ser Tyr Ala Glu Ala Val Val Asn Asn Ala Thr Arg Ser Ser Pro Lys
145                 150                 155                 160
```

```
Lys His Leu Trp Ile Gly Gly Gly Ala Leu Leu Thr Trp Leu Ala Ser
                165                 170                 175
Thr Phe Gly Trp Ser Thr Ile Trp Val Gly Ser Phe Pro Tyr Pro Lys
            180                 185                 190
Pro Thr Gly Leu Pro Tyr
        195
```

<210> 26290
<211> 348
<212> PRT
<213> A.fumigatus

<400> 26290

```
Ala Gly Lys Glu Trp Tyr Val Val Ser Ala Ile Arg Leu Ser Arg Ser
1               5                   10                  15
Arg Phe His Arg Thr Glu Phe Phe Ala Ala Gln Phe Thr Gly Ser Pro
            20                  25                  30
Ile Glu Leu His Pro Gln Phe Asn Pro Met Ile Gly Pro Ser Pro Tyr
        35                  40                  45
Val Gln Ile Asn Met Gly Ala Arg Tyr Thr Pro Cys Met Lys Asn Val
    50                  55                  60
Asp Lys Ile Gln Asn Ser Gln Val Glu Phe Leu Phe Pro Cys Pro Asn
65                  70                  75                  80
Ala Thr Ser Thr Ala Asp Phe Val Cys Thr Leu Ser Glu Leu Cys Gly
                85                  90                  95
Phe Asp Gly Val Pro Asn Pro Val Pro Gly Gly Thr Leu Asp Asp Arg
            100                 105                 110
Pro Glu Pro Asn Gln Trp Phe Arg Phe Ile Ile Pro Met Phe Leu His
        115                 120                 125
Thr Gly Ile Ile His Ile Gly Phe Asn Leu Leu Val Gln Met Thr Met
    130                 135                 140
Ala Ala Asp Met Glu Arg Thr Val Gly Trp Trp Arg Phe Ala Phe Val
145                 150                 155                 160
Tyr Leu Ala Ser Gly Ile Trp Gly Phe Val Leu Gly Gly Asn Tyr Ala
                165                 170                 175
Ala Gln Gly Glu Ser Ser Cys Gly Cys Ser Gly Ser Leu Phe Gly Ile
            180                 185                 190
Leu Ala Leu Tyr Ile Leu Asp Leu Leu Tyr Thr Trp Gly Glu Arg Ser
        195                 200                 205
Ser Pro Trp Ala Glu Leu Val Ile Met Val Leu Gly Ile Ala Ile Ser
    210                 215                 220
Phe Val Leu Gly Leu Leu Pro Gly Leu Asp Asn Phe Ser His Ile Gly
225                 230                 235                 240
Gly Phe Ile Met Gly Leu Ala Ser Gly Leu Cys Ile Met Arg Ser Pro
                245                 250                 255
Asn Ala Leu Arg Glu Arg Ile Gly Leu Ala Arg Asn Pro Tyr Val Ala
            260                 265                 270
Met Thr Gly Ala Ala Gly Ala Thr Ala Asp Pro Gly Asn Lys Val Thr
        275                 280                 285
Asn Pro Gly Ser Thr Ile Ala Glu Phe Phe Lys Ala His Lys Gly Ser
    290                 295                 300
Lys Ser Ser Lys Asp Ser Ser Ala Leu Gly Phe Phe Lys Gly Arg Lys
305                 310                 315                 320
Pro Leu Trp Trp Ala Trp Trp Leu Val Arg Leu Gly Val Phe Thr Thr
                325                 330                 335
Gly Leu Glu Gly Ser Ala Leu Val Leu Cys His Thr
```

340 345

<210> 26291
<211> 254
<212> PRT
<213> A.fumigatus

<400> 26291
Pro Val Cys Asp Ala Cys Ala Val Phe Leu His Ser Arg Val Val Ser
1 5 10 15
Leu Arg Leu Pro His Tyr Cys Leu Ile Ser Ala Gly Cys Pro Gly Leu
20 25 30
Ile Phe Gln Ala Ser His Gly Arg Tyr Thr Cys His Ile Pro Arg Pro
35 40 45
Asn Arg Gly His Asn Cys Cys Phe Lys Met Pro Asn Pro Ser Gln Leu
50 55 60
Phe Leu Leu Ala Asp His Ile Lys Leu Ser Leu Leu Glu Arg Gln Arg
65 70 75 80
Ala Ile Ser Leu Asn Leu Glu Pro Asn Ser Gln Asp Gly Glu Ile Ser
85 90 95
Arg Ser Leu Glu Ser Leu Arg Glu Gly Ile Glu Ser Val Glu Ser Glu
100 105 110
Val Ser Arg Leu Gly Glu Ala Asn Asp Val Ala Ala Ile Asp Leu Lys
115 120 125
Asp Gln Leu His Tyr Leu Gln Ser Gln Tyr Arg Asp Leu Ser Ser Gln
130 135 140
Phe His Glu Gln Asp Asp Ser Val Leu Asp Ser Asp Phe Ser Asn Val
145 150 155 160
Lys Lys Ser Ser Pro Asp Leu Lys Gln Pro Ile Pro Gln His Pro Pro
165 170 175
Ser Lys Ser Val Arg Phe Met Asp Ser Ala Ala Glu Asp Ala Asp Glu
180 185 190
Asn Arg Arg Asn Leu Phe Gln Pro Tyr Arg Asp Ser Pro Ser Pro Pro
195 200 205
Ser Pro Asp His Ser Asn Met Ser Asn Gln Gln Ile Tyr Asp His His
210 215 220
Ala Glu Thr Leu Arg Glu Gln Asp Glu Gln Leu Asp Arg Leu Gly Glu
225 230 235 240
Ser Ile Gly Arg Gln His Gln Leu Ser Ile Gln Ile Gly Ala
245 250

<210> 26292
<211> 103
<212> PRT
<213> A.fumigatus

<400> 26292
Pro Cys Phe Phe Ser Arg Phe Ile Gln Glu His Val Lys Gln Leu Cys
1 5 10 15
Pro Ser Leu Arg Thr Thr Cys Pro Asp Cys Gln Thr Thr Val Phe Arg
20 25 30
Lys Val Leu Arg Asp His Ile Glu Thr Cys Pro Glu Ala Ile His Ala
35 40 45
Cys Ala Ala Ser Lys Tyr Gly Cys Pro Val Lys Asp Lys Arg Ala Asp
50 55 60
Leu Ala Thr His Glu Gln Ala Cys Pro Leu Ile Ala Ile Gly Pro Tyr

```
65                  70                  75                  80
Phe Glu Ala Gln Asn Ala Arg Leu Asp Ser Leu Gly Val Gln His Ala
                85                  90                  95
Val Glu Gly Pro Tyr Leu Arg
            100

<210> 26293
<211> 112
<212> PRT
<213> A.fumigatus

<400> 26293
Ala Leu Arg Val Pro His Ala Pro Ile Lys Arg Ser His Leu Ser Glu
1               5                  10                  15
Ser Asp Arg Tyr Arg Thr Leu Leu Pro Thr Met Asn Leu Glu Glu Leu
            20                  25                  30
Leu Met Met Glu Ser Ser Cys Asp Arg Glu Glu Ile Val Asp Leu Arg
        35                  40                  45
Ala Leu Glu Tyr Val Ser Asn Tyr Asp Asp His Leu Met Cys Ala Ile
    50                  55                  60
Cys His Cys Pro Phe Ile Arg Pro Val Arg Leu Gln Cys Asp His Val
65                  70                  75                  80
Phe Cys Gln Lys Cys Leu Asn Ser Ala Ile Asn Thr Phe Ala Ala Gly
                85                  90                  95
Arg Asp Glu Phe Thr Cys Pro Ser Cys Arg Thr Thr Thr Arg Asp Val
            100                 105                 110

<210> 26294
<211> 137
<212> PRT
<213> A.fumigatus

<400> 26294
Gly Arg Ala Ile Met Gly Ala Thr Ala Ser Ser Thr Thr Thr Tyr Val
1               5                  10                  15
Asp Ser Pro Ala Ala Thr Ile Pro Gly Arg Pro Trp Arg Ser Trp Arg
            20                  25                  30
Ala Pro Phe Glu Ser Leu His Ala Arg Trp Pro Phe Arg Arg Pro Pro
        35                  40                  45
Phe Ile Glu Tyr Thr Glu Gln Ala Gln Arg Phe Pro Pro Ala Glu Ser
    50                  55                  60
Gln His Lys Cys His Gly Thr Ile Ser Thr Gly Ala Ala Arg Thr Val
65                  70                  75                  80
Pro Val Ala Arg Ser Leu Val Pro Ala Asn Pro Asn Pro Ala Ser Thr
                85                  90                  95
Gly Ala Gly Ile Ala Ile Ala Ile Ala Lys Pro Gly Ala Ala His Arg
            100                 105                 110
Glu Thr Pro Ser Ser Ala His Pro Pro Ala Val His Thr Val Ser His
        115                 120                 125
Ser Ser Ala Ala Ala Ala Ala Ala Ala
    130                 135

<210> 26295
<211> 495
<212> PRT
<213> A.fumigatus
```

<400> 26295

```
Phe Leu Pro Arg Phe Glu Gln Val Ser Pro Tyr Ser Ser Phe Phe Asn
1               5                  10                  15
Ile Ser Ala Val Gly Leu Gly Gly Thr Leu Ser Ser Tyr Thr Trp Ile
            20                  25                  30
Cys Leu Ile Ile Asn Phe Leu Gln Thr Arg Glu Pro Pro Val Leu Pro
        35                  40                  45
Ser Leu Gln Ala Arg Pro His Lys Lys Arg Val Thr Thr Asp Gly Leu
    50                  55                  60
Val Cys Ser Phe Asp Asp Asp Leu Ser Ser Leu Val Gly Tyr Gly Arg
65                  70                  75                  80
Lys Asn Lys Gln Thr Leu Gly Glu Leu Leu Phe Gln Phe Phe Arg Tyr
                85                  90                  95
Tyr Gly His Glu Leu Asp Tyr Glu Lys Tyr Val Ile Ser Val Arg Glu
            100                 105                 110
Gly Arg Leu Ile Ser Lys Glu Glu Lys Gly Trp His Leu Leu Gln Asn
        115                 120                 125
Asn Arg Leu Cys Val Glu Glu Pro Phe Asn Thr Ser Arg Asn Leu Gly
    130                 135                 140
Asn Thr Ala Asp Asp Thr Ser Phe Arg Gly Val His Met Glu Leu Arg
145                 150                 155                 160
Arg Ala Phe Lys Ala Val Ser Glu Gly Asn Leu Glu Asp Cys Cys Glu
                165                 170                 175
Gln Tyr Glu Tyr Pro Pro Glu Glu Glu Arg Ser Trp Glu Arg Pro Pro
            180                 185                 190
Pro Gln Pro Arg Pro Thr Leu Thr Ala Pro Pro Gln Leu Ser Arg Gly
        195                 200                 205
Gly Arg Gly Gly Arg Gly Gly Arg His Ser Asn His Tyr Thr Arg Gly
    210                 215                 220
Gly His Ser Gly Gly Arg Arg Ser Ser Asn Thr Pro Asn Lys Pro Asn
225                 230                 235                 240
Gly Phe Arg Gln Leu Asn Pro Ser Ile Ser Ala Thr Glu Leu Ser Leu
                245                 250                 255
Gln Ala Gln His Ala Gln Tyr Leu Leu His Asp His Leu Tyr Gln Gln
            260                 265                 270
Ile Gln Ile Leu Gln Ala Gln Glu Gln Glu Leu Arg Leu Gln Leu Gln
        275                 280                 285
Asn Gln Ala Leu Leu Thr Gly Arg Pro Pro Pro Val Leu Ile Arg Gln
    290                 295                 300
Pro Phe Ile Gln Phe Pro Ile Pro Gln Gln Gln Pro Gln Pro Gln Pro
305                 310                 315                 320
Glu Ser Ser Val Asp Asp Gly Ser Arg Ser Arg Ser Gly Thr His Pro
                325                 330                 335
Pro Leu Ser Ala Ser Leu Arg Pro Gln Ala Tyr Asn Asn Ser Ala Tyr
            340                 345                 350
Leu Pro Val Ala Val Thr Pro Ala Gln Gly Ser Ser Thr Asn Pro Pro
        355                 360                 365
Ser Pro Ser Ala Val Ser Ala Leu Pro Glu Leu Arg Arg Thr Pro Arg
    370                 375                 380
Arg Gln Ser Ile Ala Asn Gly Ser Pro Gly Arg Ser Leu Arg Ala His
385                 390                 395                 400
Ser Gln Pro Ala Arg Pro Ala Asn Ser Pro Ala Phe Pro Ser Phe Ala
                405                 410                 415
Pro Leu Tyr Ser Val Ser Gln Pro Val Asp Asn Ser Gln Leu Pro Lys
            420                 425                 430
```

```
Gln Arg Asn Asn Ser Ile Ser Pro Pro Glu Gly Asn Gln Ser Glu Asp
        435                 440                 445
Glu Asn Ser Phe Met Pro Ser Ser Leu Pro Asn Val Ser Arg Ala Pro
    450                 455                 460
Tyr Leu Asp Glu Asn Arg Pro Ser Glu Tyr Met Gly Tyr Tyr Leu Ala
465                 470                 475                 480
Thr Ser Ser His Thr Gly Leu Ala Gly Ser Ala Ile Glu Leu Gly
                485                 490                 495
```

<210> 26296
<211> 207
<212> PRT
<213> A.fumigatus

<400> 26296

```
Ser Gln Gly Val Asp Ile Leu Cys Ser Asp Lys Thr Gly Thr Leu Thr
1               5                   10                  15
Ala Asn Lys Leu Ser Ile Arg Glu Pro Tyr Val Ala Glu Gly Val Asp
            20                  25                  30
Val Asp Trp Met Phe Ala Val Ala Ala Leu Ala Ser Ser His Asn Ile
        35                  40                  45
Glu Ser Leu Asp Pro Ile Asp Lys Val Thr Ile Leu Thr Leu Arg Gln
    50                  55                  60
Tyr Pro Arg Ala Arg Glu Ile Leu Arg Arg Gly Trp Lys Thr Glu Lys
65                  70                  75                  80
Tyr Ile Pro Phe Asp Pro Val Ser Lys Arg Ile Val Thr Val Ala Thr
                85                  90                  95
Cys Asp Gly Ile Arg Tyr Thr Cys Thr Lys Gly Ala Pro Lys Ala Val
            100                 105                 110
Leu Ser Leu Thr Asn Cys Pro Lys Glu Val Ala Asp Val Tyr Lys Asn
        115                 120                 125
Lys Ala Gln Glu Phe Ala His Arg Ser Phe Arg Ser Leu Gly Val Ala
    130                 135                 140
Val Gln Lys Glu Gly Glu Asp Trp Thr Leu Leu Gly Met Leu Pro Met
145                 150                 155                 160
Phe Asp Pro Pro Arg Glu Glu Tyr Ala His Thr Ile Asn Glu Ala Gln
                165                 170                 175
Asn Leu Gly Ile Ser Val Lys Met Leu Thr Gly Asp Ala Leu Ala Ile
            180                 185                 190
Ala Gln Gly Asp Met Gln Asn Ala Arg Thr Gly Asn Gln Gly Val
        195                 200                 205
```

<210> 26297
<211> 301
<212> PRT
<213> A.fumigatus

<400> 26297

```
Arg Trp Pro Pro Val Met Glu Ser Gly Ile Pro Val Pro Arg Ala Pro
1               5                   10                  15
Pro Arg Gln Cys Phe Pro Leu Pro Thr Val Leu Lys Lys Leu Pro Met
            20                  25                  30
Ser Thr Arg Thr Arg Arg Arg Asn Leu Pro Thr Glu Ala Ser Asp Pro
        35                  40                  45
Trp Val Leu Arg Phe Lys Lys Lys Glu Arg Ile Gly His Tyr Leu Val
    50                  55                  60
```

```
Cys Phe Pro Cys Ser Ile His Leu Gly Lys Asn Thr Arg Ile Arg Ser
65                  70                  75                  80
Met Lys Pro Arg Ile Leu Glu Ser Val Ser Arg Cys Leu Gln Val Met
                85                  90                  95
His Trp Leu Leu Pro Lys Glu Thr Cys Lys Met Leu Ala Leu Gly Thr
            100                 105                 110
Lys Val Tyr Asn Ser Asp Lys Leu Ile His Gly Gly Leu Ser Gly Val
        115                 120                 125
Met Ala Ser Asp Leu Val Glu Lys Ala Asp Gly Phe Ala Glu Val Phe
    130                 135                 140
Pro Glu His Lys Tyr Gln Val Val Gln Met Leu Gln Glu Arg Gly His
145                 150                 155                 160
Leu Thr Ala Met Thr Gly Asp Gly Val Asn Asp Ala Pro Ser Leu Lys
                165                 170                 175
Lys Ala Asp Cys Gly Ile Ala Val Glu Gly Ala Thr Glu Ala Ala Gln
            180                 185                 190
Ser Ala Ser Asp Ile Val Phe Leu Glu Pro Gly Leu Ser Thr Ile Ile
        195                 200                 205
Asp Ser Ile Lys Val Ala Arg Gln Ile Phe His Arg Met Lys Ser Tyr
    210                 215                 220
Ile Gln Tyr Arg Ile Ala Leu Cys Leu His Leu Glu Ile Tyr Leu Val
225                 230                 235                 240
Thr Ser Met Ile Ile Leu Asn Glu Ser Ile Arg Val Glu Leu Ile Val
                245                 250                 255
Phe Leu Ala Leu Phe Ala Asp Leu Ala Thr Val Ala Val Ala Tyr Asp
            260                 265                 270
Asn Ala Ser Phe Glu Leu Arg Pro Val Glu Trp Gln Leu Pro Lys Ile
        275                 280                 285
Trp Phe Ile Ser Val Leu Leu Gly Leu Ser Ser Pro Arg
    290                 295                 300

<210> 26298
<211> 223
<212> PRT
<213> A.fumigatus

<400> 26298
Ile Ile Val Gly Glu Gly Gln Val Val Pro Ala Asp Ala Lys Ile Ile
1               5                   10                  15
Cys Asp Tyr Asn Asp Pro Asn Gly Trp Glu Glu Phe Gln Arg Met Gln
            20                  25                  30
Glu Gln Gly Asp Leu Ser Ser Thr Ser Glu Ser Asp Val Glu Asp Asn
        35                  40                  45
Glu Lys Glu Gly Lys Glu Gly Lys Gly Glu Gln Glu Ser Ser Arg Lys
    50                  55                  60
Arg Ser His Pro Ile Leu Ala Cys Asp His Ser Ala Ile Thr Gly Glu
65                  70                  75                  80
Ser Leu Ala Val Asp Arg Tyr Met Gly Gln Leu Ile Tyr Tyr Thr Thr
                85                  90                  95
Gly Cys Lys Arg Gly Lys Ala Tyr Ala Val Val Gln Ser Gly Ala Lys
            100                 105                 110
Thr Ser Phe Val Gly Lys Thr Ala Ser Met Val Leu Ala Ala Lys Gly
        115                 120                 125
Ala Gly His Phe Glu Ile Val Met Asp Gln Ile Gly Thr Ser Leu Leu
    130                 135                 140
Val Ile Val Met Ala Trp Ile Leu Ala Ala Trp Ile Gly Gly Phe Phe
```

```
145                 150                 155                 160
Arg His Ile Pro Ile Ala Ser Pro Pro Gln Gln Thr Leu Leu His Tyr
                165                 170                 175
Thr Leu Ser Leu Leu Ile Ile Gly Val Pro Val Gly Leu Pro Val Val
            180                 185                 190
Thr Thr Thr Thr Met Ala Val Gly Ala Ala Tyr Leu Ala Lys Lys Lys
        195                 200                 205
Ala Ile Val Gln Lys Leu Thr Ala Ile Glu Ser Leu Ala Val Gly
    210                 215                 220
```

<210> 26299
<211> 79
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (26),(48),(56),(57),(69)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26299

```
Pro Gly Leu Pro Ser Val Pro Ala Phe Leu Asn Asp Ile Asp Ser Asn
1               5                   10                  15
Met Leu Lys Asn Phe Phe Ile Arg Leu Xaa Ser Ser His Phe Thr Ile
            20                  25                  30
Asp Phe Cys Phe Arg Asn Gln His Ser Lys Phe Leu Glu Pro Val Xaa
        35                  40                  45
Phe Glu Trp Ser Thr Glu Leu Xaa Xaa Thr Phe Glu Gly Ser Thr Thr
    50                  55                  60
Ser Leu Gly Thr Xaa Val Thr Ser Pro Ser Arg His Arg Glu Thr
65                  70                  75
```

<210> 26300
<211> 387
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (1),(23),(31),(32),(43)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26300

```
Xaa Arg Val Ile Ser Gln Leu Ile Phe Ala Ser Ala Thr Ser Thr Val
1               5                   10                  15
Asn Ser Leu Asn Arg Ser Xaa Ser Ser Gly Leu Leu Asn Cys Xaa Xaa
            20                  25                  30
Arg Leu Lys Ala Leu Leu Leu Arg Ser Gly Xaa Pro Ser Leu Pro His
        35                  40                  45
Arg Gly Ile Glu Lys Pro Asp Ile Val Pro Asn Asn Gln Gly Ala Ser
    50                  55                  60
Ser Asp Ile Leu Ala Ala Ala Ser Met Leu Tyr Gln Asn Gly Met Ala
65                  70                  75                  80
Gly Ser Asp Ile Asn Pro Gly Phe Gly Gln Gln Gln Phe Pro Ser Met
                85                  90                  95
Ser Glu Leu Asn Phe Asn His Ser Ile Ala Asn Gly His Gly Lys Asn
```

```
            100                 105                 110
Gln Gln Ser Ser Asn His Ile Ser Ser Lys Gln Pro Asn Ser Ser His
        115                 120                 125
Thr Arg Leu Pro Val Gly Phe His Thr Ser Glu Met Leu Phe Asp Val
    130                 135                 140
Arg Glu Pro Ile Ser Pro Glu Gln Gln Ala Ser Ala Lys Ile Arg Pro
145                 150                 155                 160
Leu His Trp Gly Ser Asp Val Ser Phe Met Glu Gln Gly Tyr Ile Ala
                165                 170                 175
Pro Pro Asp Gln Pro Asn Glu Glu Glu Arg Thr Lys Glu Leu Leu Gly
            180                 185                 190
Asn Leu Glu Cys Leu Glu Pro Gln Ser Ser Ala Ala Asn Thr Arg Ala
        195                 200                 205
Pro Ser Pro Glu Arg Thr Ala Gly Gly Tyr Asn Ser His Trp Gly Glu
    210                 215                 220
Ser Gly Gly Pro Val Pro Leu Asn Ser Leu Gln Arg Glu Tyr Asn Pro
225                 230                 235                 240
Asp Leu Asp Asp Tyr Ser Gln Pro Lys Lys Arg Gln Arg Thr Ser Ile
                245                 250                 255
Lys Gln Glu Asp Asp Glu Gln Ser Asp Ala Asp Ser Thr Arg Pro Arg
            260                 265                 270
Ser Arg Arg Ser Lys Ser Ser Ala Ser Gly Lys Ala Arg Arg Thr Ser
        275                 280                 285
Asn Asp Thr Ile Arg Lys Pro Lys Leu Gln Gln Gly Ala Lys Ala Pro
    290                 295                 300
Arg Glu Asn Leu Thr Glu Glu Gln Lys Arg Asn Asn His Ile Leu Ser
305                 310                 315                 320
Glu Gln Lys Arg Arg Asn Leu Ile Arg Gln Gly Phe Asp Asp Leu Cys
                325                 330                 335
Ser Leu Val Pro Gly Leu Lys Gly Gly Gly Phe Ser Lys Ser Ala Met
            340                 345                 350
Leu Thr Gln Ala Ala Asp Trp Leu Glu Asp Ile Leu Arg Gly Asn Glu
        355                 360                 365
Ile Leu Lys Ala Gln Leu Ala Glu Leu Lys Thr Met Asn Gly Leu Val
    370                 375                 380
Met Pro Arg
385
```

<210> 26301
<211> 455
<212> PRT
<213> A.fumigatus

<400> 26301

```
Gly Thr Leu Pro Met Asp Lys Gly Arg Lys Ile Leu Trp Gly His Ser
1               5                   10                  15
Ile Cys Val Cys Ile Gly Glu His Pro Asp Arg Leu Leu Phe Gly Gln
            20                  25                  30
Ala Asp Gly Arg Arg Thr Asp His Ala Thr Phe Thr Phe Gly Asp Pro
        35                  40                  45
Gln Ser Pro Phe Tyr Thr Met His Thr Phe Ser Thr Asp Glu Leu Ser
    50                  55                  60
Ile Ala Arg Ala His Pro Met Lys Pro His Ser Ser Val Ser Val Met
65                  70                  75                  80
Met Leu Lys Leu Glu Asp Arg Lys Arg Arg Leu Pro Pro Asn Asp Gly
                85                  90                  95
```

```
Leu Val Thr Leu Leu Phe Ser Arg Leu Ala Ala Met Leu Ala Ile Ser
            100                 105                 110
Glu Ala Glu Glu Val Ala Lys Gln His His Leu Ser Ser Thr Glu Ala
        115                 120                 125
Ser Lys Val Glu Gly Asn Ala Leu Lys Arg Ala Ala Ala Gln Glu Ser
    130                 135                 140
Cys Arg Leu Leu Trp Asn Asn Glu Lys Arg Leu Tyr Glu Leu Gln His
145                 150                 155                 160
Pro Ser His Cys Lys Gln Pro Pro Pro Ala Leu Val Gly Ala Ala Gly
                165                 170                 175
Phe Gly Ala Ala Gly Ile Pro Leu Ser Pro Val Arg Ser Lys Tyr Ala
            180                 185                 190
Gly Ile Leu His Ile Ser Val Ser Thr Pro Ser Ser Asp Ser Gln Ser
        195                 200                 205
Arg Gln Pro Pro Thr Ile Ile Val Thr Thr Pro Leu Ser Pro Asn Ala
    210                 215                 220
Leu Glu Ala Ala Pro Gln Ala Ala Thr Pro Arg Thr Ser Thr Leu Pro
225                 230                 235                 240
Leu Thr Asp Ser Asp Glu Pro Leu Ala Ser Leu Asp Leu Gly Thr Met
                245                 250                 255
Thr Leu Ser Ile Ser Ala Thr Ala Ile Ile Asn Thr Ile Pro Ser Leu
            260                 265                 270
Tyr Ala Ile Asp Ser Leu Val Ala Ala Met Leu Ala Val Ala Ala Ser
        275                 280                 285
Asp Glu Thr Thr Asn Pro Val Leu Ala Asp Met Ala Leu Tyr Asp Pro
    290                 295                 300
Lys Gln Glu Ser His His Phe Ser Ser Leu Ser Asn Pro Ala Gly Gly
305                 310                 315                 320
Gly Val Phe Thr Gly Glu Leu Val Ala Thr Leu Ala Glu Arg Glu Asp
                325                 330                 335
Ala Lys Glu Ser Asp Arg Leu Met Ala Lys Ile Lys Ser Ser Thr Phe
            340                 345                 350
Lys Pro Gly Thr Pro Thr Ala Ser Asn Ser Asn Asp Lys Arg Ser Phe
        355                 360                 365
Trp Ser Trp Arg Arg Pro Lys Pro Ala Lys Pro Lys Ser Lys Ser Lys
    370                 375                 380
Gln Ile Met Ile Glu Gln Phe Asp Leu Glu Lys Tyr Gly Arg Tyr Gly
385                 390                 395                 400
Ser Ser Ser Ser Arg Glu Gly Gln Lys Leu Pro Gly Pro Thr Arg Gly
                405                 410                 415
Ile Leu Arg Leu Leu Phe Phe Gly Leu Asn Ile Ile Val Lys Thr Leu
            420                 425                 430
Thr Val Leu Val Lys Val Val Ala Trp Leu Leu Val Ser Ile Thr Arg
        435                 440                 445
Cys Val Thr Ser Glu Lys Phe
    450                 455
```

<210> 26302
<211> 133
<212> PRT
<213> A.fumigatus

<400> 26302

```
Ser Ala Ser Ala Pro Glu Ser Gly Thr Ala Leu Gly Ser Val Ser Ala
1               5                   10                  15
Pro Gly Ser Ala Ser Ala Leu Gly Ile Ala Ser Ala Pro Gly Ser Val
```

```
            20                  25                  30
Ser Ala Pro Gly Ser Val Ser Ala Pro Gly Ser Ala Ser Ala Leu Gly
        35                  40                  45
Ser Ala Ser Thr Pro Gly Ser Val Ser Ala Pro Gly Ser Ala Ser Ala
    50                  55                  60
Leu Gly Ser Val Ser Ala Pro Gly Ile Ala Ser Ala Leu Gly Ser Ala
65                  70                  75                  80
Gly Lys Pro Gly Thr Phe Val Val Ala Leu Pro Gly Val Ser Ala Leu
                85                  90                  95
Ala Gly Val Ser Ala Leu Pro Ser Ile Lys Tyr Pro Gly Arg Cys Asn
            100                 105                 110
Ser Met Thr Leu Asn Phe His Arg Tyr Thr Arg Leu Pro Thr Ser Leu
        115                 120                 125
Ala Pro Ile Asp Leu
    130
```

<210> 26303
<211> 140
<212> PRT
<213> A.fumigatus

<400> 26303

```
Cys Tyr Ser Ile Ala Ser Tyr Lys Ser Met Gly Ala Arg Glu Val Gly
1               5                   10                  15
Ser Leu Val Tyr Leu Trp Lys Phe Asn Val Ile Leu Leu Gln Arg Pro
            20                  25                  30
Gly Tyr Leu Met Leu Gly Ser Ala Asp Thr Pro Ala Ser Ala Asp Thr
        35                  40                  45
Pro Gly Arg Ala Thr Thr Lys Val Pro Gly Leu Pro Ala Leu Pro Ser
    50                  55                  60
Ala Leu Ala Ile Pro Gly Ala Leu Thr Leu Pro Ser Ala Leu Ala Leu
65                  70                  75                  80
Pro Gly Ala Leu Thr Leu Pro Gly Val Leu Ala Leu Pro Ser Ala Leu
                85                  90                  95
Ala Leu Pro Gly Ala Leu Thr Leu Pro Gly Ala Leu Thr Leu Pro Gly
            100                 105                 110
Ala Leu Ala Ile Pro Ser Ala Leu Ala Leu Pro Gly Ala Leu Thr Leu
        115                 120                 125
Pro Ser Ala Val Pro Leu Ser Gly Ala Leu Ala Leu
    130                 135                 140
```

<210> 26304
<211> 88
<212> PRT
<213> A.fumigatus

<400> 26304

```
Ile Pro Arg Met Leu Asn Ala Gly Leu Asp Glu Trp Val Phe Ser Gln
1               5                   10                  15
Glu Gln Arg Gln Val Phe Met Thr Trp Asp Cys Leu Gln Asp Ile Thr
            20                  25                  30
Tyr Ala Lys Phe Ser Leu Ser Phe Asn Ile Tyr Leu Phe Ile Phe Leu
        35                  40                  45
Phe Ile His Phe Tyr Phe Ile Phe Tyr Ser Leu Phe Phe Ser Leu Phe
    50                  55                  60
Phe Val Val Phe Tyr Phe Tyr Phe Tyr Phe Phe Phe Asp Ala Cys Val
```

```
65                  70                  75                  80
Arg Ser Thr Thr Leu His Lys Ala
                85
```

<210> 26305
<211> 294
<212> PRT
<213> A.fumigatus

<400> 26305

```
Arg Gly Ser Lys Cys Asp Arg Val Lys Pro Cys Ser Ala Cys Cys Leu
1               5                  10                  15
Arg Gly Thr Pro Ser Glu Cys Glu Tyr Gly Thr Ser Lys Arg Asp His
            20                  25                  30
His Tyr Ile Gln Gln Ser Ala Leu Ile Asp Ser Leu Met Lys Thr Cys
        35                  40                  45
Glu Asp Leu Lys Lys Gln Leu Ala Glu Ala Arg Ala Leu Ala Asn Leu
    50                  55                  60
Pro Pro Val Lys Pro Glu Glu Pro Phe Ser Val Ser Ser Pro Glu Asp
65                  70                  75                  80
His Arg Glu Lys Thr Val Asp Glu Glu Arg Ser Gln Asn Pro Glu Ser
                85                  90                  95
Arg Ala Ser Ser Ser Leu Ile Lys Gln Ser Ala Asp Pro Ala Gly Arg
            100                 105                 110
Ser Phe Ala Gln Thr Thr Asn Thr Pro Cys Thr Thr Asp Arg Ser Ser
        115                 120                 125
Arg Ser Leu Ser Asp Asp Lys Arg Ile Leu Thr Asp Pro Ala Val Ala
    130                 135                 140
Ser Ser Phe Val Glu Val Phe Val Glu Arg Leu Ile Asp Asn Phe Ser
145                 150                 155                 160
Pro Gln Pro Ala Ser Val Tyr Gly Gly Thr Val Ala Leu Arg Glu Ala
                165                 170                 175
Ser Arg Met Arg Ile Leu Ser Pro Met Leu Cys Thr Ala Phe Glu Ala
            180                 185                 190
Ala Ser Leu Thr Phe Ala Gly Arg Arg Glu Gln Ile Arg Glu Val Glu
        195                 200                 205
Ala Val Gly His Ala Arg Tyr Val Arg Val Leu Arg Gln Leu Gln Thr
    210                 215                 220
Ala Leu Asn Asp Pro Lys Gln Asn Lys Ser Thr Glu Val Met Val Val
225                 230                 235                 240
Val Leu Leu Phe Thr Ile Ile Glu Val Arg Gly Val Ser Pro Cys Arg
                245                 250                 255
Ile Arg Phe Pro Leu Thr Ser Arg Ala Gly Leu Gln Ala Gln His Gln
            260                 265                 270
Arg Phe Pro Ala Glu Ala Pro Thr Arg Ala Met Met Ser Ala Arg Pro
        275                 280                 285
Asp Asp Ser Val Arg Ile
    290
```

<210> 26306
<211> 103
<212> PRT
<213> A.fumigatus

<400> 26306

```
Ala Ser Leu Arg Met Gln Leu Lys Gly His Pro Ser Asn Ser Thr Gln
```

```
1               5                   10                  15
Tyr Val Leu Asn Arg Pro Cys Ile Phe His Val Arg Arg Ile Ser Ser
            20                  25                  30
Ile Thr Thr Leu Leu Val Leu Leu Thr Tyr Tyr Leu Gly Glu Gly Leu
        35                  40                  45
Met Phe His Val Ile His Leu Asn Val Ile Tyr Leu Arg Leu Tyr Ser
    50                  55                  60
Leu Pro Ser Glu Thr Asp Gln Leu Tyr Met Ser His Thr Leu Pro Ile
65                  70                  75                  80
Thr Ile Gln Ile His Thr Tyr Arg Ile Leu Ser Thr Leu Gln Cys Thr
                85                  90                  95
Leu Val Leu Val Arg Cys Gly
            100
```

<210> 26307
<211> 267
<212> PRT
<213> A.fumigatus

<400> 26307

```
Ser Arg Asn Leu Asn Pro Gly Ser Ala Pro Phe Trp Ser Val Ile Pro
1               5                   10                  15
Arg Phe His Ser Gly Glu Phe Lys Asp His Ser Ala Ser Lys Asp Trp
            20                  25                  30
Val Val Arg His Pro Asn Leu Glu Gly Asn Gly Arg Gly Ile Gly Phe
        35                  40                  45
Pro Thr Ser Ser Tyr Phe Asp Arg Leu Pro Pro Pro Ser Thr Asn Pro
    50                  55                  60
Ser Met Ile Gly Met Ser Pro Arg Pro Ser Pro Ile Ala Pro Tyr Ser
65                  70                  75                  80
Ala Asn Ala Thr Pro Pro Leu His Glu Met Ser Pro Asn Pro Ser Thr
                85                  90                  95
Thr Ser Leu Pro Thr Gln Ser Thr Gly Ala His Pro Leu Pro Gln Arg
            100                 105                 110
Ala Pro Gly His Gly Gly Leu Gln Lys Arg Val Ile Asp Lys Thr Gln
        115                 120                 125
Ile Ser Glu Pro Thr Phe Val Ser Cys Thr Ser Asn Val Pro Thr Val
    130                 135                 140
Gly Leu Pro Pro Gly Ala Ser Leu Ser Asn Gly Met Glu Thr Pro Pro
145                 150                 155                 160
Ile Pro Pro Met Asn Pro Arg Arg Arg Arg Gln Thr Thr Thr Gln Thr
                165                 170                 175
Ile Ile Gly Ala Leu Lys Gly Glu Lys His Glu Ser His His Pro Ala
            180                 185                 190
Ser Thr Val Ser Ser Pro Pro Glu Glu His Ser Thr Phe Asn Asp Asn
        195                 200                 205
Asn Asn Lys Arg Pro Lys Ser Lys His Asn Lys Leu Arg Lys Thr Ser
    210                 215                 220
Ser Glu Gly Gly Ser Leu Asn Ser Lys Ala Arg His Gln Ala Met Ala
225                 230                 235                 240
Ala Ala Ala Ala Pro Leu Pro Pro Ala Pro Ala Val Pro Gln Tyr Ala
                245                 250                 255
Pro Pro Asn Val Pro Ile Glu Gly Gly Met Phe
            260                 265
```

<210> 26308

<211> 65
<212> PRT
<213> A.fumigatus

<400> 26308
Leu Gly Pro Phe Arg Pro Leu Pro Asn Trp Gly Thr Ala Leu Leu Thr
1 5 10 15
Asp Ser Trp Ser Leu Gln Met Trp Asp Tyr Gln Arg Tyr Thr Gly Asp
20 25 30
Pro Trp Ser Asp Ile Glu Cys Arg Gly Thr Leu Pro Gly Thr Val Pro
35 40 45
Cys Arg Asp Gly Ser Val Tyr Met Pro Gly Thr Pro Asp His Gly Val
50 55 60
Val
65

<210> 26309
<211> 164
<212> PRT
<213> A.fumigatus

<400> 26309
Phe Leu Thr Pro Trp Leu Phe Glu His Ser Asp Ser Leu Arg Arg His
1 5 10 15
Ile His Asn Glu His Asp Gly Leu Pro Lys Pro His His Gly Arg Val
20 25 30
Ser Gln Ala Cys Arg Arg Cys Arg Leu Gly Lys Val Arg Cys Arg Gly
35 40 45
Gly Ser Pro Cys Ile Gln Cys Arg Ser Lys Gly His Arg Cys Ile Phe
50 55 60
Asp Ser Pro Thr Ser Ala Glu Thr Asn Tyr Gln Leu Val Arg Leu Cys
65 70 75 80
Pro Ser Leu Glu Ala Asp Glu Thr Ala Gln Val Lys Gln Tyr Val His
85 90 95
Leu Tyr Phe Ala Arg Phe His Pro His Trp Pro Ile Leu His Arg Ala
100 105 110
Thr Phe Ser Ile Pro Asn Glu Pro Pro Leu Leu Leu Gln Thr Val Leu
115 120 125
Met Ile Gly Leu Trp Val Ser Gly Lys Thr Ser Ala Arg Asn Ala Ala
130 135 140
Val Asp Leu His Ser Lys Leu Gly Leu Ser Ile His Glu Gln Arg Val
145 150 155 160
Arg Tyr Arg Pro

<210> 26310
<211> 111
<212> PRT
<213> A.fumigatus

<400> 26310
Asn Lys Asn His Glu Glu Ile Thr Asp Thr Phe Ser Leu Lys Ile Gln
1 5 10 15
Gly Val Lys Trp Gln Lys Tyr Ser Leu His Arg Gly Arg Ile Ile Cys
20 25 30
Asn Tyr Ser Leu Ser Gly Ile Asn Ser Thr Leu Arg Pro Pro Met Met

```
        35                  40                  45
Gly Pro Thr Cys Ala Gln Met Pro Ala Leu Arg Tyr Val Ile Trp Thr
    50                  55                  60
Leu Arg Leu Asn Ile Met Ile Asn Gly Pro Lys Val Ala Val Trp Lys
65                  70                  75                  80
Leu Arg Gly Asn Leu Pro His Pro Val Glu Ala Thr Ala Leu Leu Thr
                85                  90                  95
Asp Ala Ile Leu His Asp Asp Ala Gln Lys Asn Ser Ile Phe Leu
            100                 105                 110
```

<210> 26311
<211> 380
<212> PRT
<213> A.fumigatus

<400> 26311

```
His Ala Cys Glu Tyr Ile Gly Pro Ile Thr Cys Ala Pro Ala Lys Lys
1               5                   10                  15
Gln Ser Val Tyr Leu Thr Ile Leu Arg Arg Pro Tyr Arg Tyr Phe Leu
            20                  25                  30
Arg Ser Tyr Leu Thr Phe Val Ile Cys Thr Leu Gly Arg Pro Gly Ile
        35                  40                  45
Phe Asn Gln Arg Asp Thr Ala Glu Ile Trp Ala Gly Gly Asp Gly Arg
    50                  55                  60
Ser His Arg Glu Arg Leu Ala Ala Ala Thr Gly Gly Ala Ser Glu Ala
65                  70                  75                  80
Ser Ser Lys Gln Asn Met Leu Ala Glu Met Tyr Arg Pro Pro Phe Asp
                85                  90                  95
Ile Met Ser Arg Leu Pro Trp Asp Leu Ala Arg Gln Glu Gly Arg Glu
            100                 105                 110
Asn Glu Lys Trp Leu Leu Val Asn Ile Gln Asp Gln Ser Ile Phe Asp
        115                 120                 125
Cys Gln Val Leu Asn Arg Asp Leu Trp Lys Asp Pro Ala Val Lys Glu
    130                 135                 140
Thr Val Lys Glu His Phe Ile Phe Leu Gln Tyr Ser Lys Asp Asp Ser
145                 150                 155                 160
Arg Ala Thr Pro Tyr Leu Gln Tyr Tyr Phe Gln Ala Ser Asp Val Ser
                165                 170                 175
Glu Asn Tyr Pro His Ile Ala Ile Val Asp Pro Arg Thr Gly Glu Gln
            180                 185                 190
Met Lys Val Trp Ser Gly Pro Pro Val Val Lys Pro Ala Glu Phe Leu
        195                 200                 205
Met Gln Leu His Glu Phe Leu Asp Arg Tyr Ser Leu Lys His Asn Val
    210                 215                 220
Arg Asn Pro Val Ala Lys Arg Lys Pro Glu Lys Arg Glu Lys Ser Ile
225                 230                 235                 240
Asp Thr Met Thr Glu Glu Glu Met Leu Glu Met Ala Met Arg Asn Ser
                245                 250                 255
Leu Gly Asp Glu Val Ala Gln Ala His Arg Val Met Asp Pro Asp Asp
            260                 265                 270
Leu Thr Arg Ser Thr Glu Asp Val Lys Gly Lys Gly Lys Ala Ala Pro
        275                 280                 285
Thr Asp Asp Val Leu Met Asp Glu Gly Asp Leu Ala Glu Glu Pro Val
    290                 295                 300
Glu Glu Ala Ser Ser Leu Phe Trp Ser Ile Pro Asp Asn Arg Pro His
305                 310                 315                 320
```

```
Thr Glu Pro Pro Ala Asp Pro Ala Thr Thr Thr Arg Ile Gln Phe Arg
                325                 330                 335
His Pro Ser Gly Arg Val Ile Arg Arg Phe Ala Leu Val Asp Pro Val
            340                 345                 350
Arg Arg Ile Tyr Glu Trp Leu Lys Ala Asp Pro Pro Leu Pro Glu Lys
        355                 360                 365
Ala Gly Ile Glu Phe Glu Leu Asn Ser Met Gly Arg
    370                 375                 380
```

<210> 26312
<211> 244
<212> PRT
<213> A.fumigatus

<400> 26312

```
Glu Gln Asp Tyr Val Lys Ala Thr Ser Pro Ile Met His Phe Leu Thr
1               5                   10                  15
Tyr Ala Asp Asn Tyr Ala Ile Gly Tyr Phe Lys Lys Gln Gly Phe Thr
            20                  25                  30
Lys Glu Ile Thr Leu Asp Lys Ser Ile Trp Met Gly Tyr Ile Lys Asp
        35                  40                  45
Tyr Glu Gly Gly Thr Ile Met Gln Cys Thr Met Leu Pro Lys Ile Arg
    50                  55                  60
Tyr Leu Glu Ala Gly Arg Met Leu Leu Lys Gln Lys Glu Ala Val Gln
65                  70                  75                  80
Ala Lys Ile Arg Ala Phe Ser Arg Ser His Ile Ile His Pro Pro Pro
                85                  90                  95
Arg Glu Trp Lys Asn Gly Pro Cys Lys Ile Asp Pro Leu Ser Ile Pro
            100                 105                 110
Ala Ile Lys Glu Ser Gly Trp Ser Pro Asp Met Asp Glu Leu Ala Arg
        115                 120                 125
Gln Pro Arg His Gly Pro Asn Tyr Asn Gln Leu Leu His Leu Leu Asn
    130                 135                 140
Asp Met Gln Asn His Ser Ala Ala Trp Pro Phe Thr Gln Pro Val Asn
145                 150                 155                 160
Arg Asp Glu Val Pro Asp Tyr Tyr Glu Val Ile Lys Glu Pro Met Asp
                165                 170                 175
Leu Ser Thr Met Glu Glu Lys His Glu Lys Asp Met Tyr Pro Thr Pro
            180                 185                 190
Gln Asp Phe Ile Lys Asp Ala Met Leu Ile Phe Asp Asn Cys Arg Lys
        195                 200                 205
Tyr Asn Asn Glu Asn Thr Pro Tyr Ala Lys Ser Ala Asn Lys Leu Glu
    210                 215                 220
Lys Phe Met Trp Gln Gln Ile Arg Asn Ile Pro Glu Trp Ser Val Ser
225                 230                 235                 240
Val Ser Leu Gly
```

<210> 26313
<211> 80
<212> PRT
<213> A.fumigatus

<400> 26313

```
Ser Ile Met Gln Thr Met Trp Ser Phe Ser Ile Ile Leu Glu Ser Val
1               5                   10                  15
```

Cys Val Leu Pro Gln Leu Leu Leu Leu Arg Gln Thr Thr Val Pro Thr
20 25 30
Val Ile Asp Ser Tyr Tyr Leu Leu Ala Leu Gly Ser Tyr Arg Ala Phe
35 40 45
Tyr Ile Leu Asn Trp Phe Val Arg Gly Phe Gly Pro Glu Glu Thr Leu
50 55 60
Gly Ser Asn Arg Tyr Asp Ile Trp Tyr Arg Ser Asn Cys Leu Leu Arg
65 70 75 80

<210> 26314
<211> 156
<212> PRT
<213> A.fumigatus

<400> 26314
Glu Ala Ser Val Leu Lys Lys His Trp Asp Pro Ile Ala Met Ile Phe
1 5 10 15
Gly Ile Val Gln Thr Ala Phe Tyr Val Asp Phe Ala Trp Val Tyr Tyr
20 25 30
Ser Arg Gln Arg Val Lys Leu Arg Asn Gly Gly Val Val Asp Ser Glu
35 40 45
Asp Tyr Ser Lys Ser Trp Ile Val Asn Lys Val Phe Asn Ile Arg Arg
50 55 60
Arg Arg Glu Ser Leu Asp Glu Glu Gln Asn Leu Thr Gly Glu Gly Met
65 70 75 80
Glu Gly Glu Ser Gly Asp Gly Gly Asp Arg Pro Arg Asn Asn Arg Trp
85 90 95
Gly Ala Arg Gly Ile Ser Ile Ser Ala Asp Asp Met Leu Asp Glu His
100 105 110
Thr Arg Arg Lys Pro Gly Asp Ala Asp Asn Glu Gly Leu Glu Gly Phe
115 120 125
Leu Glu Asp Glu Asp Asn Ser Met Asp Asp Gln Thr Gly Gly Arg Ser
130 135 140
Pro Leu His His Thr Ser Val Thr Ser Asn Arg Asp
145 150 155

<210> 26315
<211> 71
<212> PRT
<213> A.fumigatus

<400> 26315
Gly Gly Leu Ile Ser Asp Glu Ala Thr Met Gly Gly Pro Gly Thr Leu
1 5 10 15
Asn Gly Gly Thr Pro Ala Lys Asp Thr Asp Gly Asp Gly Ile Pro Asp
20 25 30
Glu Ala Glu Lys Gln Leu Gly Thr Asp Pro Asn Thr Asn Asp Ser Met
35 40 45
Lys Leu His Ser Ser Gly Tyr Thr Tyr Leu Glu Val Trp Ala Asn Ser
50 55 60
Leu Val Pro Ser Thr Tyr His
65 70

<210> 26316
<211> 382
<212> PRT

<213> A.fumigatus

<400> 26316

```
Val Thr Phe Leu Ser Phe Gly Cys Cys Thr Asp His Pro Ala Leu Ala
1               5                  10                  15
Ala Thr Cys Pro Ser Val Arg Ser Ser Pro Gln Leu Gln Ser Ile Thr
            20                  25                  30
Thr Leu Pro Asp Pro Phe Ser Trp Tyr Pro Leu Gln Lys Thr Gly Arg
        35                  40                  45
Val Ser Thr Leu Ser Asp Trp Gln Cys Arg Gln Ser His Ile Ser Ser
    50                  55                  60
Leu Leu Gln Gln Leu Glu Leu Gly Thr Lys Pro Pro Ala Pro Ser Ser
65                  70                  75                  80
Val Thr Ser Thr Phe Ser Gln Asn Lys Leu Thr Ile Thr Ala Thr Asn
                85                  90                  95
Ala Gly Asn Thr Ile Ser Phe Thr Ala Thr Ile Thr Tyr Pro Ser Ser
            100                 105                 110
Gly Glu Gly Pro Tyr Pro Ala Met Ile Ala Tyr Gly Gly Leu Ser Ile
        115                 120                 125
Pro Leu Pro Pro Gly Val Ala Ala Ile Thr Phe Asp Asn Ser Gln Ile
    130                 135                 140
Ala Gln Gln Asn Asp Gln Ser Ser Arg Gly Gln Gly Phe Phe Tyr Thr
145                 150                 155                 160
Leu Tyr Gly Ala Asn His Ser Ala Gly Ala Leu Met Ala Trp Ala Trp
                165                 170                 175
Ala Thr Ser Leu Ile Ile Asp Arg Leu Glu Ala Thr Pro Ala Ala Arg
            180                 185                 190
Ile Asn Thr Ser Arg Ile Gly Val Thr Gly Cys Ser Arg Asn Gly Lys
        195                 200                 205
Gly Ala Leu Val Ala Gly Ala Phe Asp Ser Arg Ile Ala Leu Thr Val
    210                 215                 220
Pro Gln Glu Ser Gly Thr Gly Gly Ser Gly Cys Trp Arg Leu Ala Ala
225                 230                 235                 240
Ala Ser Glu Gly Ala Pro Gln Asn Val Gln Thr Ala Gly Glu Ile Val
                245                 250                 255
Gln Glu Asn Val Trp Phe Ser Thr Ala Phe Asn Ala Tyr Ala Asn Asp
            260                 265                 270
Glu Asp Arg Leu Pro Phe Asp His His Met Leu Ala Gly Leu Ile Ala
        275                 280                 285
Pro Arg Gly Leu Leu Ser Ile Asp Asn Ala Gly Tyr Gln Trp Leu Gly
    290                 295                 300
Pro Cys Ser Ser Leu Gly Cys Met Gly Thr Ala Arg Leu Val Trp Gln
305                 310                 315                 320
Ala Met Gly Val Pro Asp Arg Met Gly Tyr Ser Met Leu Thr Asn His
                325                 330                 335
Pro His Cys Ser Phe Pro Asp Gln Gln Arg Glu Asp Leu Phe Ala Phe
            340                 345                 350
Ile Asn Arg Phe Leu Leu Gly Met Glu Val Asn Thr Thr Val Gln Lys
        355                 360                 365
Asn Tyr Ala Gly Ile Phe Thr Thr Gly Leu Glu Gly Asp Ala
    370                 375                 380
```

<210> 26317
<211> 305
<212> PRT
<213> A.fumigatus

<400> 26317
Arg Gln Ala Thr Val Phe Gly Arg Arg Ser Ala His Glu Thr Thr Ala
1 5 10 15
Ser Pro Ser Arg Leu His His His Arg Arg Ile Tyr Leu Val Gly Glu
20 25 30
Leu Phe Pro Leu Ser Gly Trp Leu Phe Gln His Leu Phe Ala Ser Trp
35 40 45
Cys Leu Leu Pro Glu Ala Arg Phe Val Ile Cys Ser Gln Val Gln Ser
50 55 60
Thr Leu Leu Ile Ser Ala Ala Pro Gln Asn Lys Lys Thr Met Thr Asp
65 70 75 80
Ser Ile Pro Ala Thr Phe Lys Pro Ala Leu Ile Ile His Gly Gly Ala
85 90 95
Gly Asn Ile Gln Arg Ser Arg Leu Pro Pro Asp Leu Tyr Ala Gln Tyr
100 105 110
His Ala Ser Leu Leu Ser Tyr Leu Arg Ser Thr Lys Asp Leu Leu Asn
115 120 125
Ser Gly Ala Ser Ala Leu Asp Ala Ala Val His Ala Val Ser Leu Leu
130 135 140
Glu Asp Asp Glu Leu Phe Asn Cys Gly Arg Gly Ser Val Phe Thr Ser
145 150 155 160
Ala Gly Thr Ile Glu Met Glu Ala Ser Val Met Val Thr Ser Val Asn
165 170 175
Lys Pro Thr Asp Glu Thr Pro Ser Pro Ile Lys Arg Gly Ala Ala Val
180 185 190
Met Glu Leu Arg Asn Val Arg His Pro Ile Gln Leu Ala Arg Glu Cys
195 200 205
Leu Leu Arg Thr Gly His Asp Ala Asn Gly Asn Pro Asn Gly Asp Gly
210 215 220
Gly Asn Met His Ser Gln Leu Gly Ala Pro Tyr Val Glu Glu Leu Ala
225 230 235 240
Arg Ala Trp Gly Leu Glu Phe Lys Pro Asp Glu Trp Phe Trp Thr Lys
245 250 255
Arg Arg Trp Glu Glu His Gln Arg Gly Leu Lys Gly Glu Thr Glu Pro
260 265 270
Val Ser Leu Ser Gln Gly Thr Val Gly Cys Val Cys Leu Asp Arg Trp
275 280 285
Gly Glu Leu Ala Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg His Lys
290 295 300
Glu
305

<210> 26318
<211> 74
<212> PRT
<213> A.fumigatus

<400> 26318
Pro Val Leu Thr Asn Phe Phe Ser Ala Val Ile Ala Gly Phe Phe Thr
1 5 10 15
Gly Gly Ala Leu Ala Val Arg Gly Gly Val Lys Ala Ala Arg Asn Ser
20 25 30
Ala Ile Met Cys Ala Val Phe Leu Ala Val Ile Glu Gly Val Gly Ile
35 40 45
Gly Phe Gln Arg Met Met Ala Asp Asn Thr Lys Leu Glu Val Trp Ser

```
    50                  55                  60
Leu Thr Ile Ala Leu Cys Tyr Asp Cys Gly
65                  70
```

<210> 26319
<211> 105
<212> PRT
<213> A.fumigatus

<400> 26319

```
Ser Asp Phe Ser Ala His Ile Asp Cys Thr Ile Phe Ser Phe Ala Ala
1               5                   10                  15
Gly Val Ala Gly Ile Pro Gln Val Trp Arg Trp Arg Arg Glu Ser Tyr
            20                  25                  30
Cys Ala Glu Arg Gly Lys Gly Lys Leu Arg Cys Ser Ala Ala Asp Gln
        35                  40                  45
Arg Met Lys Gln Gln Pro His His Leu Asp Cys Ile Thr Ile Glu Glu
    50                  55                  60
Ser Ile Trp Leu Val Asn Phe Ser Leu Cys Leu Val Gly Tyr Phe Ser
65                  70                  75                  80
Ile Tyr Ser His Arg Gly Val Tyr Tyr Leu Lys Leu Asp Ser Leu Phe
                85                  90                  95
Ala Ala Arg Ser Asn Gln Pro Phe Ser
            100                 105
```

<210> 26320
<211> 87
<212> PRT
<213> A.fumigatus

<400> 26320

```
Ala Ile Gly Gly Ala Val Trp His Gly Val Lys Gly Phe Arg Asn Ser
1               5                   10                  15
Pro Tyr Gly Glu Arg Arg Ile Gly Ala Ile Thr Ala Ile Lys Ala Arg
            20                  25                  30
Ala Pro Val Leu Gly Gly Asn Phe Gly Val Trp Gly Gly Leu Phe Ser
        35                  40                  45
Thr Phe Asp Cys Ala Ile Lys Gly Ile Arg Lys Lys Glu Asp Pro Tyr
    50                  55                  60
Asn Ala Ser Thr Leu Thr Ser Ser Phe Tyr Leu Thr Val Val Ala Ile
65                  70                  75                  80
Arg His Thr Asn Asp Leu Phe
                85
```

<210> 26321
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26321

```
Trp Phe Asn Ile Ala Ala Thr Ile Leu Tyr Val Gly Thr Glu Phe Pro
1               5                   10                  15
Ile His Val Leu Tyr Tyr Tyr Val Ser Leu Phe Ser Gly Val Gly Ala
            20                  25                  30
Gly His Phe Ile Phe Asn Glu Ala Trp His Arg Gly Phe Leu Leu Ser
        35                  40                  45
```

```
Tyr Cys Ala Ser Ser Pro Thr Phe Gly Leu Ala Leu Ser Thr Gly Ile
    50                  55                  60
Cys Gln Arg
65
```

<210> 26322
<211> 248
<212> PRT
<213> A.fumigatus

<400> 26322

```
Ile Arg Tyr Leu Gln Pro Gly Pro Ile Asn Pro Ser His Lys Arg Arg
1               5                   10                  15
Pro Ala Lys Gln Glu Asn Asn Asp Arg Leu His Pro Ser Asp Phe Gln
            20                  25                  30
Ala Cys Pro His Tyr Pro Arg Arg Arg Arg Gln Tyr Ser Ala Leu Glu
        35                  40                  45
Ala Ala Ser Gly Pro Leu Arg Ser Val Pro Cys Leu Pro Pro Leu Leu
    50                  55                  60
Pro Pro Leu Asp Glu Arg Ser Pro Gln Gln Arg Arg Gln Arg Pro Arg
65                  70                  75                  80
Arg Ser Arg Pro Arg Arg Leu Ile Ala Gly Arg Arg Arg Ala Leu Gln
                85                  90                  95
Leu Arg Thr Arg Gln Arg Val His Leu Ser Arg Asp Asn Arg Asn Gly
            100                 105                 110
Gly Leu Arg Asp Gly His Ile Arg Gln Gln Thr His Arg Arg Asp Ala
        115                 120                 125
Ile Ser His Gln Thr Arg Arg Ser Arg Asp Gly Ala Lys Lys Arg Pro
    130                 135                 140
Ala Pro Asp Pro Ala Arg Gln Gly Met Ser Pro Pro Asn Arg Pro Arg
145                 150                 155                 160
Arg Gln Arg Gln Pro Glu Arg Arg Arg Arg Glu His Ala Leu Ala Ala
                165                 170                 175
Arg Gly Ala Val Arg Gly Gly Thr Arg Ser Cys Val Gly Ala Gly Val
            180                 185                 190
Gln Thr Gly Arg Val Val Leu Asp Gln Lys Ala Val Gly Gly Thr Ser
        195                 200                 205
Ala Arg Ala Lys Gly Gly Asp Gly Ala Arg Phe Leu Glu Pro Gly Asp
    210                 215                 220
Gly Arg Val Cys Val Ser Arg Ser Val Gly Gly Thr Gly Val Phe Thr
225                 230                 235                 240
Thr Gly Leu Glu Gly Ala Ala Pro
                245
```

<210> 26323
<211> 126
<212> PRT
<213> A.fumigatus

<400> 26323

```
Asn His Thr Ser Leu Pro Leu Glu Arg Ala Lys Gln Cys Phe Ser Leu
1               5                   10                  15
His Ala Pro Ser Gln Tyr Glu Arg Val Ala Arg Thr Gly Glu Met Ser
            20                  25                  30
Val Asn Pro Thr Ser Phe Arg Gln Val Leu Tyr Ser Ser Met Val Asp
        35                  40                  45
```

```
Arg Cys Gly Ser Ala Val Met Leu Leu Ala His Pro His Thr Val Gly
    50                  55                  60
Asp His Leu Thr Pro Gly Pro Thr Tyr His Leu Ile Ser Leu Ile Asp
65                  70                  75                  80
Phe Gln Asn Asn Gln Thr Ser Thr Ala His Asn Ser Thr Asn Ile Thr
                85                  90                  95
Leu Ile Lys Val Ala Leu Glu Val Ile Lys Leu Leu Glu Leu Gly Glu
            100                 105                 110
Leu Ile Asn Tyr Thr Phe Phe Ile Asn Lys Tyr Ser Val Ser
        115                 120                 125
```

<210> 26324
<211> 82
<212> PRT
<213> A.fumigatus

<400> 26324

```
Phe Cys Tyr Pro Gly Ile Arg Ile Val Ala Leu Leu Pro Ser Pro Phe
1               5                   10                  15
His Phe Ser Cys Arg Asn Gly Ser Leu Thr His Tyr Ser Pro Ile Thr
            20                  25                  30
Gly Tyr Ser Met Thr Asp Thr Gly Asn Cys Gly Lys Ile Phe Val Gln
        35                  40                  45
Glu Thr Glu Ala Thr Lys Arg Thr Ser Pro Leu Leu Phe Phe Phe Phe
    50                  55                  60
Lys Lys Lys Leu Phe Ile His Phe Leu Phe His Phe Pro Leu Lys Thr
65                  70                  75                  80
Asn Leu
```

<210> 26325
<211> 98
<212> PRT
<213> A.fumigatus

<400> 26325

```
Ala Thr Gly Ile Asn Tyr Ser Ser Trp Ala Leu Val Asn Phe Ala Phe
1               5                   10                  15
Asn His Val Ile Lys Arg Arg Phe Phe Ala Trp Trp Thr Lys Tyr Asn
            20                  25                  30
Tyr Val Leu Ala Ala Ala Leu Asp Thr Gly Leu Ala Leu Ser Gly Ile
        35                  40                  45
Val Ile Phe Phe Cys Ile Ser Tyr Pro Gly Ala Val Phe Pro Asp Trp
    50                  55                  60
Trp Gly Asn Thr Val Tyr Leu Asn Thr Ala Asp Gly Gln Gly Val Ala
65                  70                  75                  80
Trp Lys Pro Met Pro Asp Val Gly Tyr Phe Gly Pro Pro Asn Gly Thr
                85                  90                  95
Trp Thr
```

<210> 26326
<211> 622
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (365)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26326

```
Arg Ser Val Val Phe Cys Ala Met Asn Thr Arg Phe Ser Tyr Ser Phe
1               5                  10                  15
Gln Ser Cys Val Val Arg Ala Val Val Pro Glu Thr Asp Asp Pro His
            20                  25                  30
Met Pro Val Asn Thr Leu Arg Met Trp Met Leu Gly Val Val Phe Thr
        35                  40                  45
Ile Leu Gly Ser Gly Ile Asn Gln Phe Phe Ser Leu Arg Tyr Pro Ser
    50                  55                  60
Val His Ile Val Ser Leu Val Ala Glu Leu Leu Ala Tyr Pro Cys Gly
65                  70                  75                  80
Val Phe Leu Ala Arg Ile Leu Pro Val Met Thr Val Arg Cys Gly Pro
                85                  90                  95
Phe Gly Ser Phe Cys Leu Asn Pro Asp Arg His Phe Asn Ile Lys Glu
            100                 105                 110
His Ala Ile Ile Val Ile Met Ser Asn Val Ser Phe Gly Tyr Gly Ser
        115                 120                 125
Ala Asp Ser Thr Asn Ile Ile Gln Ala Ser Ser Ser Asn Phe Tyr Asn
    130                 135                 140
Phe Gly Leu Lys Ala Gly Phe Ser Val Leu Val Val Ile Cys Ala Gln
145                 150                 155                 160
Leu Leu Gly Phe Gly Ile Ala Gly Leu Ala Ala Pro Trp Leu Val Glu
                165                 170                 175
Pro Ala Ser Ile Ile Trp Pro Gly Val Leu Ser Asn Cys Ala Met Leu
            180                 185                 190
Glu Ser Leu His Ser Arg Val Asn Pro Ile Ala Asn Gly Trp Lys Ile
        195                 200                 205
Ser Arg Leu Arg Phe Phe Leu Tyr Val Thr Ala Thr Gly Phe Leu Trp
    210                 215                 220
Tyr Phe Phe Pro Gly Leu Ile Phe Thr Ala Leu Ser Tyr Phe Thr Trp
225                 230                 235                 240
Ile Cys Trp Ile Ala Pro Lys Asn Val Ile Val Asn Gln Leu Phe Gly
                245                 250                 255
Met Gln Thr Gly Leu Gly Leu Ser Pro Ile Thr Phe Asp Trp Ser Gln
            260                 265                 270
Val Ala Tyr Asn Thr Asn Pro Leu Leu Ser Pro Ser Trp Ala Ala Val
        275                 280                 285
Asn Val Phe Ala Gly Phe Ala Ile Phe Phe Trp Gly Val Val Pro Ala
    290                 295                 300
Leu Tyr Tyr Thr Asn Thr Trp Tyr Thr Ala Tyr Leu Pro Met Met Thr
305                 310                 315                 320
Ala Asp Val Tyr Asp Arg Thr Gly Ala Val Tyr Asp Thr Ala Arg Val
                325                 330                 335
Val Ser Ser Gln His Thr Leu Asp Ile Asp Ala Tyr Lys Gln Tyr Ser
            340                 345                 350
Pro Pro Tyr Leu Gly Ala Thr Phe Ala Phe Val Tyr Xaa Leu Ser Phe
        355                 360                 365
Ala Ser Ile Thr Ser Val Leu Thr His Ile Ala Val Trp His Lys Ser
    370                 375                 380
Asp Ile Trp Ala Ala Leu Lys Gly Gln Asn Asn Leu Tyr Ile His Ala
385                 390                 395                 400
```

```
Arg Leu Met Lys Ser Tyr Arg Lys Thr Pro Trp Tyr Trp Tyr Ala Ala
                405                 410                 415
Val Ile Val Ile Val Thr Ala Ile Ala Ile Val Leu Val Val Val Tyr
            420                 425                 430
Glu Thr Lys Leu Pro Val Tyr Gly Val Phe Leu Ala Leu Ile Ile Pro
        435                 440                 445
Ala Leu Tyr Met Val Pro Cys Gly Ile Val Gln Gly Ile Thr Asn Val
    450                 455                 460
Asp Ala Asn Gln Leu Asn Val Leu Ser Glu Phe Ile Gly Gly Tyr Met
465                 470                 475                 480
Phe Glu Gly Lys Pro Leu Thr Asn Met Leu Phe Lys Ile Leu Ser Thr
                485                 490                 495
Asp Val Val Val Gln Gly Val Tyr Phe Ala Met Asp Met Lys Leu Gly
            500                 505                 510
His Tyr Leu Lys Ile Pro Pro Arg Leu Leu Phe Gly Ala Gln Gly Thr
        515                 520                 525
Ala Thr Ile Leu Trp Ala Leu Thr Gln Ala Gly Val Thr Leu Trp Met
    530                 535                 540
Leu Gly Asn Ile Asp Gly Ile Cys Thr Glu Asp Gln Pro Tyr Gly Phe
545                 550                 555                 560
Ser Cys Pro Asn Gly Arg Thr Val Tyr Ser Ser Ser Val Ile Trp Ser
                565                 570                 575
Leu Val Gly Pro Arg Ser Leu Tyr Ser Arg Gly Arg Met Tyr Ser Pro
            580                 585                 590
Leu Ser His Phe Ile Trp Ile Gly Ala Leu Ala Pro Val Val Thr Tyr
        595                 600                 605
Phe Leu Tyr Lys Tyr Thr Lys Thr Gln His Leu Ser Arg Pro
    610                 615                 620

<210> 26327
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26327
Ser Thr Thr Leu Gly Met Ala Ser Lys Glu Gln Thr Gln Asp His Asn
1               5                   10                  15
Val Lys Thr Ile His Ala Gly Asp His Pro Glu Val Glu Ile Gly Arg
            20                  25                  30
Leu Asp Glu Leu Glu Val Asp Leu Asp Ser Ala Leu Glu Glu His Glu
        35                  40                  45
Tyr Asp Tyr Glu Ser Glu His Ser Pro Phe Ser Glu Gly Leu Leu Ser
    50                  55                  60
Phe Ala Pro
65

<210> 26328
<211> 66
<212> PRT
<213> A.fumigatus

<400> 26328
Met Gln Pro Val Thr Thr Ser Ile Gly Leu Phe Ser Val Phe Pro Phe
1               5                   10                  15
Ile Gly Gly Asp Ile Val Arg His Pro Leu Tyr Glu Gln Cys Thr Phe
            20                  25                  30
```

```
Asn Leu Tyr Ser Pro Gln Leu Ile Gly Gln Asn Leu Gln Asn Ser Pro
        35                  40                  45
Phe Lys Gln Ala Asn Ala Ser Leu Gly Pro Gly Tyr Gly Val Asp Gln
    50                  55                  60
Leu Ala
65
```

<210> 26329
<211> 229
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (6)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26329

```
Glu Val Arg Thr Lys Xaa Phe Gly Gln Ile Ser Leu Asn Leu Thr Glu
1               5                   10                  15
Asp Leu Ser Arg Phe Glu Asp Tyr Thr Asp Asp Gly Arg Gly Asp Ile
            20                  25                  30
Pro Lys Asp Gly Tyr Val Ser Ser Leu Asp Arg Arg Arg Ala Arg Met
        35                  40                  45
Ala Asn Leu Met Tyr Ala Phe Phe Leu Leu Ala Gly Ala Gly Gly Val
    50                  55                  60
Ala Tyr Leu Gly Arg Asn Trp Glu Thr Glu Glu Glu Ala Lys Ala His
65                  70                  75                  80
Pro Asp Ile Pro Ser Gly Trp Ser Phe Ser Ser Trp Tyr Asn Arg Met
                85                  90                  95
Lys Ala Arg Leu Ser Asp Ile Thr Ser Tyr Tyr Lys Asp Pro Ala Phe
            100                 105                 110
Pro Lys Leu Leu Pro Asp Glu Asp Pro Asn Leu Arg Gln Pro Tyr Thr
        115                 120                 125
Leu Val Leu Ser Leu Glu Asp Leu Leu Val His Ser Glu Trp Ser Arg
    130                 135                 140
Glu His Gly Trp Arg Ile Ala Lys Arg Pro Gly Val Asp Tyr Phe Leu
145                 150                 155                 160
Arg Tyr Leu Asn Gln Tyr Tyr Glu Leu Val Leu Phe Thr Ser Val Pro
                165                 170                 175
Ser Met Met Ala Asp Gln Val Leu Arg Lys Leu Asp Pro Tyr Arg Ile
            180                 185                 190
Ile Arg Trp Pro Leu Phe Arg Glu Ala Thr Arg Tyr Lys Asp Gly Glu
        195                 200                 205
Tyr Ile Lys Val Gly Gln Asp Ser Ser Asp Pro Ala Phe Arg Gln Asn
    210                 215                 220
Ser Leu Lys Tyr Leu
225
```

<210> 26330
<211> 194
<212> PRT
<213> A.fumigatus

<400> 26330

```
Asp Leu Ser Tyr Leu Asn Arg Asp Leu Ser Lys Val Ile Leu Ile Asp
```

```
1               5                   10                  15
Thr Lys Glu Glu His Ala Arg Leu Gln Pro Glu Asn Ala Ile Ile Leu
            20                  25                  30
Asp Lys Trp Leu Gly Asp Pro Lys Asp Lys Asn Leu Val Ala Leu Ile
        35                  40                  45
Pro Phe Leu Glu Tyr Ile Ala Gly Met Gly Val Glu Asp Val Arg Pro
    50                  55                  60
Val Leu Lys Ser Phe Glu Gly Thr Ser Ile Pro Val Glu Phe Ala Lys
65                  70                  75                  80
Arg Glu Arg Ile Met Arg Glu Lys Phe Glu Lys Glu Leu Glu Glu Glu
                85                  90                  95
Arg Lys Arg Arg Pro Lys Arg Gly Val Gly Ser Leu Ala Ser Ala Leu
            100                 105                 110
Gly Leu Lys Ser Thr Arg Thr Leu Asp Gly Glu Gln Ser Pro Ser Glu
        115                 120                 125
Gly Leu Ala Gln Gly Lys Met Leu Trp Asp Gln Ile Arg Glu Arg Gly
    130                 135                 140
Gln Lys Asn Tyr Glu Met Ile Glu Lys Glu Ile Arg Glu Asn Gly Glu
145                 150                 155                 160
Lys Trp Leu Ala Glu Met Ala Ala Glu Glu Glu Lys Ala Arg Gln Glu
                165                 170                 175
Gln Met Lys Met Met Lys Gly Ser Phe Thr Ser Met Phe Gly Ala Gly
            180                 185                 190
Lys Gln
```

Substitute Sheet (Rule 26)

<210> 26331
<211> 84
<212> PRT
<213> A.fumigatus

<400> 26331

```
Asn Asp Leu Ile Val Arg Gly Ile Cys Leu Gly Gly Gly Leu Gln Ser
1               5                   10                  15
Leu Asp Arg Gly Phe Leu Arg Ala Phe Ile Ala Leu Ser Phe Gly Arg
            20                  25                  30
Val Leu Phe Gly Leu Val Leu Arg Ala Ala Thr Ser Phe Leu Leu Phe
        35                  40                  45
Ala Trp His Ser Gly His Lys Gly Ser Thr Arg Phe Ser Asn Asn Met
    50                  55                  60
Leu Tyr Ser Ser Phe Trp Phe Phe Trp Phe Asp Phe Leu Ser Ala Gln
65                  70                  75                  80
Glu Ile Leu Arg
```

<210> 26332
<211> 389
<212> PRT
<213> A.fumigatus

<400> 26332

```
Asn Phe Leu Ser Gly Glu Lys Val Lys Pro Lys Lys Pro Lys Arg Thr
1               5                   10                  15
Ile Gln His Ile Val Arg Lys Thr Gly Arg Ser Leu Val Ser Thr Met
            20                  25                  30
Pro Arg Glu Lys Gln Lys Arg Gly Arg Arg Ala Glu Asp Lys Ala Lys
```

```
        35                  40                  45
Lys Asp Ala Ala Lys Arg Lys Arg Asp Glu Gly Pro Glu Glu Ser Ala
    50                  55                  60
Val Lys Arg Leu Lys Pro Ser Ala Glu Thr Asn Thr Ser Asn Asn Glu
65                  70                  75                  80
Ile Ile Ser Gly Ala Asp Tyr Ile Pro Leu Gly Gln Asp Asp Gly Gly
                85                  90                  95
Asn Asp Val Pro Met Asn Asp Ala Pro Ala Asn Asp Met Pro Phe Tyr
            100                 105                 110
Gly Leu Leu Asp Ser Glu Glu Gln Glu Tyr Phe Ser Lys Ala Asn Glu
        115                 120                 125
Val Leu Glu Leu Asn Gln Phe His Asp Ala Glu Glu Arg Arg Leu Phe
    130                 135                 140
Val Asp Ser Val Tyr Arg Glu Ala Asp Gly Lys Glu Leu Lys Val Ala
145                 150                 155                 160
Cys Ser Gln Ser Cys Ser Arg Leu Met Glu Lys Leu Ile Ser Leu Ser
                165                 170                 175
Asp Met Arg Gln Ile Arg Arg Leu Phe Ser Lys Phe Ile Gly His Phe
            180                 185                 190
Leu His Leu Val Gln His Arg Phe Ala Ser His Cys Cys Glu Thr Leu
        195                 200                 205
Phe Ile Asn Ala Ala Pro Gly Val Thr Glu Lys Ile Ser Lys Ser Lys
    210                 215                 220
Gly Arg Lys Ala Glu Val Asp Glu Glu Asp Glu Pro Glu Pro Glu Leu
225                 230                 235                 240
Ser Leu Ala Glu Met Phe Met Lys Val Val Glu Glu Leu Glu Gly Asn
                245                 250                 255
Trp Gly Tyr Leu Leu Thr Glu Arg Phe Ala Ser His Thr Ile Arg Val
            260                 265                 270
Leu Leu Phe Val Leu Ala Gly Glu Pro Val Asp Leu Ser Ser Thr Asp
        275                 280                 285
Ser Val Val Ala Ser Arg Lys Lys Glu Arg Leu Gly Ile Val Asn Thr
    290                 295                 300
Glu Ala Pro Glu Glu Lys Ala Ala Ala Glu Lys Arg Lys Val Pro Glu
305                 310                 315                 320
Val Phe Glu Ala Thr Leu Lys Lys Val Met Asn Asp Met Val Ser Gly
                325                 330                 335
Leu Asp Asn Thr Tyr Leu Arg Ala Leu Ala Thr His Pro Val Gly Asn
            340                 345                 350
Pro Val Leu Gln Val Leu Val Phe Leu Glu Leu Ser His Phe Gly Lys
        355                 360                 365
Ala Ser Ala Lys Asp Pro Asn Ser Ile Ile Ile Phe Asn Thr Arg Gly
    370                 375                 380
Asp Leu Ser Met Gly
385
```

<210> 26333
<211> 120
<212> PRT
<213> A.fumigatus

<400> 26333

```
Thr Ala Pro Ser Thr Ser Pro Lys Trp Thr Pro Gln Ala Ala Ala Ala
1               5                   10                  15
Pro Ser Thr Pro Leu Val Gln Pro Thr Ala Gln Ala Thr Ala Thr Arg
            20                  25                  30
```

```
Ser Ala Ser Thr Pro Val Pro Gly Ser Thr Ala Arg Pro Thr Pro Ser
        35                  40                  45
Ala Gln Val Pro Ala Ala Arg Arg Trp Thr Ser Gly Arg Pro Thr Arg
    50                  55                  60
Ala Pro Gln Phe Ser Pro Arg Thr Arg Ala Pro Gln Pro Ala Cys Thr
65                  70                  75                  80
Arg Ala Pro Ala Pro Asn Ala Thr Pro Ser Ala Thr Gly Met Ala Ala
                85                  90                  95
Pro Thr Thr Pro Thr Ser Ser Ala Gln Arg Ile Thr Met Ala Thr Val
            100                 105                 110
Ser Pro Leu Thr Pro Pro Ser Arg
        115                 120

<210> 26334
<211> 333
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (5)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26334
Pro Ser Leu Cys Xaa Asp Lys Val Thr Cys Ser Gln Asn Cys Val Val
1               5                   10                  15
Glu Gly Ile Thr Asp Tyr Ser Ser Phe Gly Val Gln Asn Ser Gly Asp
            20                  25                  30
Ala Ile Thr Leu Arg Gln Tyr Gln Val Gln Asn Gly Gln Ile Lys Thr
        35                  40                  45
Leu Arg Pro Arg Val Tyr Leu Leu Ala Glu Asp Gly Ile Asn Tyr Ser
    50                  55                  60
Lys Leu Gln Leu Leu Asn Gln Glu Phe Thr Phe Asp Val Asp Ala Ser
65                  70                  75                  80
Lys Leu Pro Cys Gly Met Asn Gly Ala Leu Tyr Leu Ser Glu Met Asp
                85                  90                  95
Ala Ser Gly Gly Arg Ser Ala Leu Asn Pro Ala Gly Ala Thr Tyr Gly
            100                 105                 110
Thr Gly Tyr Cys Asp Ala Gln Cys Phe Asn Pro Gly Pro Trp Ile Asn
        115                 120                 125
Gly Glu Ala Asn Thr Leu Gly Ala Gly Ala Cys Cys Gln Glu Met Asp
    130                 135                 140
Leu Trp Glu Ala Asn Ser Arg Ser Thr Ile Phe Ser Pro His Pro Cys
145                 150                 155                 160
Thr Thr Ala Gly Leu Tyr Ala Cys Thr Gly Ala Glu Cys Tyr Ser Ile
                165                 170                 175
Cys Asp Gly Tyr Gly Cys Thr Tyr Asn Pro Tyr Glu Leu Gly Ala Thr
            180                 185                 190
Asp Tyr Tyr Gly Tyr Gly Leu Thr Val Asp Thr Ala Lys Pro Ile Thr
        195                 200                 205
Val Val Thr Gln Phe Val Thr Ala Asp Asn Thr Ala Thr Gly Thr Leu
    210                 215                 220
Ala Glu Ile Arg Arg Leu Tyr Val Gln Glu Gly Met Val Ile Gly Asn
225                 230                 235                 240
Ser Ala Val Ala Met Thr Glu Ala Phe Cys Ser Ser Ser Arg Thr Phe
                245                 250                 255
```

```
Glu Ala Leu Gly Gly Leu Gln Arg Met Gly Glu Ala Leu Gly Arg Gly
            260                 265                 270
Met Val Pro Val Phe Ser Ile Trp Asp Asp Pro Ser Leu Trp Met His
        275                 280                 285
Trp Leu Asp Ser Asp Gly Ala Gly Pro Cys Gly Ser Thr Glu Gly Asp
    290                 295                 300
Pro Ala Phe Ile Gln Ala Asn Tyr Pro Asn Thr Ala Val Thr Phe Ser
305                 310                 315                 320
Lys Val Arg Trp Gly Asp Ile Asp Ser Thr Tyr Ser Val
                325                 330
```

<210> 26335
<211> 66
<212> PRT
<213> A.fumigatus

<400> 26335

```
Thr Gln Ala Pro Cys Pro Ser Pro Glu Pro Arg Pro Tyr Ala Ala Thr
1               5                   10                  15
His Pro Ala Pro Arg Thr Ser Ser Thr Thr Ser Arg Lys Pro Pro Ser
            20                  25                  30
Trp Arg Arg Pro Asn Cys Arg Ser Pro Tyr Pro Pro Ala Arg Thr Ala
        35                  40                  45
Cys Gly Ser Arg Pro Glu Phe Leu Ser Arg Cys Tyr Arg Pro Ser Arg
    50                  55                  60
Thr Ala
65
```

<210> 26336
<211> 127
<212> PRT
<213> A.fumigatus

<400> 26336

```
Phe Asp Lys Tyr Ile Ala Arg Ser Arg Trp Lys Arg Asn Arg Ile Arg
1               5                   10                  15
Asp Cys Asp Ala Ala Ser Lys Gln Phe Trp Ser Cys Met Phe Leu Phe
            20                  25                  30
Arg Ala Phe Tyr Phe Ala Glu Cys Thr Leu Pro Glu Thr Phe Pro Cys
        35                  40                  45
Phe Phe His Lys Pro Tyr Ser Ser Thr Ser Met Ala Gly Thr Glu Phe
    50                  55                  60
Gly Glu Gly Tyr Ala Gly Val Ile Thr Ser Leu Gly Val Arg Cys Gln
65                  70                  75                  80
Ile Leu Thr His Asn Val Pro Asp Ala Asn Ile Leu Ser Leu Val Glu
                85                  90                  95
Ala Lys Ile Thr Ser Val Asp Leu Ala Arg Met Leu Val Ile Met Glu
            100                 105                 110
Ala Thr Arg Val Val Lys His Phe Glu Arg Val Gly Glu Trp Cys
        115                 120                 125
```

<210> 26337
<211> 148
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (85)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26337
Leu Ile Arg Arg Arg Val Thr Ser Ala Leu Ser Asn Tyr Ile Ser Ile
1 5 10 15
Tyr Leu Ser Ile Tyr Ile Tyr Ile Leu Leu Ser Pro His Pro Val Leu
20 25 30
Gly Val Ile Leu Tyr Met Thr His Phe Ser Ser Leu Ser Pro Pro Asp
35 40 45
Arg Asp Arg His Arg Asp Arg His Ala Gly His Pro Thr His His Ser
50 55 60
Leu Arg Gln Gly Arg Pro Gln Ser Pro Ala Arg Gly His His Pro Arg
65 70 75 80
Arg Thr Gly Ser Xaa Ala Gln Asp His Arg Gly Ala Ser Leu Gln Val
85 90 95
Lys Glu Pro Asp Tyr Val Ala Ile Asn Pro Asn Gly Arg Ile Pro Ala
100 105 110
Ile Tyr Asp Pro Asn Thr Asp Leu Thr Leu Gly Gly Ser Gly Ala Ile
115 120 125
Val Glu Tyr Leu Val Ser Thr Thr Asn Pro Thr Thr Gly Ser Leu Ser
130 135 140
Arg Arg Ala Ser
145

<210> 26338
<211> 94
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (47)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26338
His Ile Ser His Leu Cys Pro His Gln Thr Glu Thr Asp Thr Glu Thr
1 5 10 15
Asp Met Pro Asp Ile Gln Pro Ile Thr Val Tyr Gly Lys Gly Gly Pro
20 25 30
Asn Pro Pro Arg Val Ala Ile Ile Leu Ala Glu Leu Asp Leu Xaa His
35 40 45
Lys Ile Ile Glu Val Pro Leu Ser Lys Ser Arg Ser Pro Thr Met Ser
50 55 60
Pro Ser Ile Pro Thr Gly Ala Ser Pro Pro Ser Thr Ile Pro Thr Pro
65 70 75 80
Thr Ser Arg Trp Gly Asp Pro Ala Pro Ser Ser Asn Thr Ser
85 90

<210> 26339
<211> 273
<212> PRT
<213> A.fumigatus

<400> 26339
Leu Val Gln Ile Val Leu His Ser Ser Asp Met Pro Tyr Ala Val Leu
1 5 10 15
Gly Ala Thr Gly Asn Cys Gly Thr Ala Leu Ile Gln Asn Leu Leu Gln
20 25 30
Ser Ser Thr Ser Lys Val His Ala Tyr Cys Arg Asp Arg Arg Lys Leu
35 40 45
Leu Tyr Leu Leu Pro His Leu Ala Asp Asn Lys Gln Val Asp Ile Phe
50 55 60
Asp Gly Ser Ile His Asp Leu Pro Leu Ile Thr Glu Cys Val Arg Asn
65 70 75 80
Cys His Ala Val Phe Leu Val Ile Ser Thr Asn Asp Asn Val Pro Gln
85 90 95
Cys Arg Met Ala Leu Asp Thr Ala Thr Ala Val Ile Gln Ala Leu Arg
100 105 110
Ile Leu His Gly Glu Gly Ala Ser Met Pro Lys Leu Val Leu Leu Ser
115 120 125
Ser Ala Thr Leu Asp Asp Gln Leu Ser Gln Asn Thr Ala Pro Trp Val
130 135 140
Arg Trp Ile Leu Leu Lys Ser Ala Ser Gln Val Tyr Gln Asp Leu Ser
145 150 155 160
Gln Ala Glu Ala Phe Leu Arg Gln Gln Gln Asp Trp Ile Ser Thr Ile
165 170 175
Phe Ile Lys Pro Gly Gly Leu Ser Val Asp Val Gln Arg Gly His Arg
180 185 190
Leu Ser Leu Thr Glu Glu Lys Ser Pro Leu Ser Tyr Leu Asp Leu Ala
195 200 205
Ala Ala Met Ile Glu Ala Ala Asp Asp Pro Asp Gly Arg Tyr Asp Leu
210 215 220
Arg Asn Val Gly Val Ala Tyr Thr Asp Gly Pro Ala Arg Phe Pro Arg
225 230 235 240
Gly Ala Pro Met Cys Ile Phe Met Gly Leu Val Arg His Phe Leu Pro
245 250 255
Phe Leu His Pro Tyr Leu Pro Ala Thr Gly Pro Asn Gln Gly Phe Leu
260 265 270
Cys

<210> 26340
<211> 307
<212> PRT
<213> A.fumigatus

<400> 26340
Pro Ala Val Ser Gly His Ile Thr Asn His Leu Asp Leu Val Tyr Leu
1 5 10 15
Ser Ser Leu Leu Glu Val Glu Met Ala Ser Tyr Arg Arg Ile Glu Asn
20 25 30
Tyr Ile Gln Glu Leu Pro Gln Glu Val Ser Ser Pro Asn Leu Asp Ala
35 40 45
Cys Ala Val Glu His Trp Pro Thr Arg Gly Leu Ile Ser Ile Lys Asn
50 55 60
Phe Gly Ala Ser Tyr Ala Leu Asp Glu Lys Glu Val Leu Lys Gly Val
65 70 75 80
Asn Tyr Arg Ala Asn Ala Gly Gln Arg Thr Ala Ile Val Gly Arg Thr
85 90 95

```
Gly Ser Gly Lys Thr Ser Leu Ala Leu Ser Leu Leu Arg Leu Thr Thr
            100                 105                 110
Arg Thr Arg Gly Ser Ile Ser Ile Asp Gly Val Asp Ile Glu Ala Val
        115                 120                 125
Pro Val Glu Lys Leu Arg Gln Ser Ile Ser Phe Ile Pro Gln Asp Pro
    130                 135                 140
Thr Leu Leu Asp Gly Thr Ile Arg Phe Asn Leu Asp Phe Asn Gly Glu
145                 150                 155                 160
Tyr Ala Glu Gly Tyr Leu Gln Ser Ile Leu Asp Asp Val Ala Gly Thr
                165                 170                 175
Arg Lys Trp Lys Leu Asp Asp Thr Val Glu Leu Asn Gly Arg Asn Phe
            180                 185                 190
Ser Gln Gly Glu Arg Gln Leu Ile Thr Phe Ala Arg Val Met Val Ser
        195                 200                 205
Lys His Lys Ile Leu Ile Ile Asp Glu Gly Thr Ala Ser Leu Asp Lys
    210                 215                 220
Ser Ser Glu Asp Arg Ile Met Ala Val Leu Arg Asp Arg Phe Ser Glu
225                 230                 235                 240
Cys Thr Val Ile Ala Ile Ser His Arg Leu His Ser Ile Ile Asp Phe
                245                 250                 255
Asp Gln Val Leu Val Ile Gly Asp Gly Gln Val Leu Glu Ala Gly Asn
            260                 265                 270
Pro Arg Gln Leu Leu Gly Gly Glu Asn Val Phe Lys Ala Leu Tyr Leu
        275                 280                 285
Gln Gln Cys Gly Thr Asp Ala Val Val Ser Gly Asn Leu Ser Gly Ile
    290                 295                 300
Arg Gln Ser
305

<210> 26341
<211> 178
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (112)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26341
Gly Pro Gly Thr Arg Ile Phe His Pro Val Val Lys Thr Arg Lys Ile
1               5                   10                  15
Glu Ser Leu His His Trp Asn Ser Trp Tyr Thr Lys Asp Val Val Lys
            20                  25                  30
Met Thr Thr Val Ala Ala Ala Ala Gly Arg Lys Ser Val Leu Arg Arg
        35                  40                  45
Trp Val Phe Asp Gln Glu Glu Tyr Val Asn Asn Ser Thr Gly Lys Ser
    50                  55                  60
Val Arg Thr Phe Trp Val Met Thr Asn Gly Tyr Ser Leu Val Lys Tyr
65                  70                  75                  80
Thr Tyr Asp Glu Asn Thr Pro Asp Asp Ala Ile Asn Phe Asp His Thr
                85                  90                  95
Glu Lys Thr Trp Glu Glu Asp Pro Arg Gly Tyr Glu Gly Arg Leu Xaa
            100                 105                 110
Pro Leu Arg Leu Lys Asp Gln Ala Gly Val Thr Lys Asp Arg Trp Leu
        115                 120                 125
```

```
Leu Arg Glu Ala Tyr Val Val Gly Asp Asn Val His Gln Trp Tyr Val
    130                 135                 140
Arg Glu Glu Asp Glu Gly His Ser Val Ile Glu Ile Val Trp Leu Gly
145                 150                 155                 160
Pro Lys Gly Gly Gly Gly Ala Gly Val His Asp Tyr Ala Val Arg Lys
                165                 170                 175
Gln His
```

<210> 26342
<211> 106
<212> PRT
<213> A.fumigatus

<400> 26342

```
Leu Val Trp Arg Cys Val Val Ala Ala Ala Glu Asn Gly Ala Leu Lys
1               5                   10                  15
Ile Gly Ile Lys Trp Val Phe Arg Lys Glu His Ile Pro Phe Lys Val
            20                  25                  30
Leu Asp Trp Phe Trp Leu Ser Ile Cys Leu Phe Trp Gly Thr Phe Thr
        35                  40                  45
Leu Asp Leu Thr Cys Tyr Pro Gly Arg Val Phe Leu Pro Leu Leu Leu
    50                  55                  60
His Thr Pro Thr Arg Asp Phe Leu Leu Tyr Met Cys Leu Val Lys Ile
65                  70                  75                  80
Glu Phe Gln Ala Glu Leu Val Ser Leu Leu Leu Glu Ile Ser Val Glu
                85                  90                  95
His Leu Ser Leu Cys Arg Asn Ile Met Thr
            100                 105
```

<210> 26343
<211> 65
<212> PRT
<213> A.fumigatus

<400> 26343

```
Tyr Ile Asp Thr Val Asp Ala Asp Thr Lys Pro Gly Asp Leu Leu Ile
1               5                   10                  15
Lys Tyr Ser Arg Arg Pro Glu Met Ala Ser Val Phe Asn Tyr Ala Ser
            20                  25                  30
Met Ala His Asn Asn His Phe Phe Phe Asn Cys Leu Val Ser Thr Ser
        35                  40                  45
Gln Arg Arg Gly Pro Leu Ser Asp Arg Pro Arg Leu Ile Cys Leu Leu
    50                  55                  60
Gln
65
```

<210> 26344
<211> 99
<212> PRT
<213> A.fumigatus

<400> 26344

```
Ser Pro Thr Pro Thr Gln Ile Pro Asp Lys Phe Ala Lys Asp Ile Ile
1               5                   10                  15
Asp Thr Cys Ser Ser Val Glu Ser Leu Lys Leu Asp Phe Leu Ala Thr
```

```
            20                  25                  30
Ala Asn Ala Met Phe Gly Pro Gly Phe Val Trp Leu Ala Lys Asn Leu
        35                  40                  45
Glu Arg Glu Gly Leu Met His Ile Phe Cys Thr Tyr Asn Ala Gly Ser
    50                  55                  60
Pro Tyr Pro Ala Ala His Ser Arg Arg Gln Pro Val Asp Met Ala Thr
65                  70                  75                  80
His Ser Pro Asp Ala Pro Leu Gly Asn Met Tyr Ala Gly Ser Met Val
                85                  90                  95
Pro Thr Pro
```

<210> 26345
<211> 74
<212> PRT
<213> A.fumigatus

<400> 26345

```
Lys Pro Val Ala Ala Leu Pro Arg Phe Gln Thr Arg Gln Leu His Arg
1               5                   10                  15
Val Pro Gln Leu Thr His Asp Ala Tyr Phe Lys Ala Asn Gly Ile Pro
            20                  25                  30
Glu Leu Leu Ser Pro Glu Ala Phe Asp Phe Ala Trp Thr Gln Tyr Gln
        35                  40                  45
Thr Leu Leu Ile Asp Lys Leu Asn Leu Leu Thr Gln Gly Glu Thr Phe
    50                  55                  60
Arg Lys Thr Phe Ile Phe Ile Ala Leu Gly
65                  70
```

<210> 26346
<211> 186
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (70)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26346

```
Tyr Tyr Arg Glu Ile Ile Pro Asp Ser Val Ser Thr Pro Arg Tyr Leu
1               5                   10                  15
Ser Arg Arg Gly Cys Pro Thr Phe Asn Gln Thr His Thr Thr Ala Thr
            20                  25                  30
Met Pro Pro Phe Ile Ser Ser Leu Ala Leu Arg Thr Leu Arg Thr Leu
        35                  40                  45
Val Gln Arg His Ser Leu Ile Ala Ile Pro Ala Val Ser Arg Pro Ile
    50                  55                  60
Leu Ser Arg Phe Gln Xaa Val Phe Arg Thr Pro Thr Ala Ile Thr Ala
65                  70                  75                  80
Ala Arg Ala Ala Gly Ala Gly Pro Ile Thr Arg His Phe Ser Thr Ser
                85                  90                  95
Pro Phe Arg Gln Ala Thr Tyr Asn Gln Val Arg Arg Gly Cys Arg Val
            100                 105                 110
Ser Gln Arg Ala Arg Arg Ser Arg Ser Pro Ala Leu Val Gly Arg Ala
        115                 120                 125
```

```
Gln Met Lys Gly Val Cys Leu Lys Thr Gly Ile Thr Lys Pro Lys Lys
    130                 135                 140
Pro Asn Ser Gly Glu Arg Lys Thr Ala Arg Val Arg Leu Ser Ser Gly
145                 150                 155                 160
Lys Val Val Thr Ala Tyr Ile Pro Gly Glu Gly Gly Thr Leu Pro Ser
                165                 170                 175
Val Asn Cys Gln Arg Asp Arg Arg Leu Cys
            180                 185
```

<210> 26347
<211> 221
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (24),(26),(49)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26347

```
Ser Ser Leu Gln Phe Leu Glu Gln Pro Ser Leu Thr His Ser Gln Ser
1               5                   10                  15
Leu Arg Ile Ala Pro Pro Ala Xaa Tyr Xaa Thr Gln Ala Ser Asn Thr
            20                  25                  30
Thr Thr Arg Asn Pro Thr Ala Arg Pro Ser Lys Gly Ala Pro Ser Ala
        35                  40                  45
Xaa Gly Leu Pro Asp Thr Leu Arg Asp Lys Ile Thr Leu Pro Ala Pro
    50                  55                  60
Val Gly Pro Pro Phe Ser Asn Gln Thr Ala Val Pro Ser Ser Thr His
65                  70                  75                  80
Pro Leu Glu Ala Arg Leu Leu Ala Trp Arg Gln Thr Gln Asp Ala Met
                85                  90                  95
Lys Met Glu Thr Leu Arg Arg Ala Tyr Gly Ile Ala Glu Pro Val Arg
            100                 105                 110
Arg Gly Met Glu Leu Lys Ile Val Arg Asp Gly Thr Phe Arg Pro Ala
        115                 120                 125
Val Leu Gly Gly Asn Lys Gly Gly Asn Val His Glu Asp Ile Leu Val
    130                 135                 140
Leu Gly Gly Arg Asp Thr Glu Ile Asp Trp Glu Asp Ile Phe Gln Gly
145                 150                 155                 160
Trp Leu Asn Val Cys Ile Pro Ala Ala Gly Met Thr Arg Leu Ile Leu
                165                 170                 175
Leu Ile Gln Glu Thr Ser Ser Gly Asn His Leu Pro Ser Met Thr Arg
            180                 185                 190
Trp Arg Lys Asp Ser Gly Trp Ser Ser Asp Trp Gly Val Ser Leu Phe
        195                 200                 205
Cys Leu Leu Leu Asn Phe Arg Met Ser Arg Tyr Val Phe
    210                 215                 220
```

<210> 26348
<211> 76
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE

<222> (5),(7),(30)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26348
His Pro Gln Gln Xaa Met Xaa Pro Arg Pro Pro Thr Gln Pro Pro Glu
1 5 10 15
Thr Pro Pro Leu Val His Gln Lys Ala Pro His Pro Leu Xaa Val Ser
20 25 30
Pro Thr Pro Ser Ala Thr Lys Ser Pro Ser Gln His Arg Trp Asp Pro
35 40 45
Pro Leu Ala Thr Lys Pro Pro Ser Pro His Arg His Thr Pro Leu Lys
50 55 60
Pro Ala Cys Ser Pro Gly Val Arg Leu Arg Met Pro
65 70 75

<210> 26349
<211> 68
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (67),(68)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26349
Thr Lys Asn Leu His Tyr Tyr Lys Ser Leu Asn Leu Ser Leu Ser Ala
1 5 10 15
Phe Asn Pro Pro Phe His His His Arg Arg Arg Asn Gly Arg Ser Cys
20 25 30
Ser Phe Asn Arg His Asp Gln Tyr Tyr Ile Ile Lys Leu Ala Ile Pro
35 40 45
Arg Thr Ala Val Thr Asn Ala Leu Thr Val Ser Pro His Ser Thr Pro
50 55 60
Ser Lys Xaa Xaa
65

<210> 26350
<211> 85
<212> PRT
<213> A.fumigatus

<400> 26350
Asp Ser Thr Asn Arg Cys Phe Ser Asp Ile Ile Gln Asn Leu Leu Ser
1 5 10 15
Ser Ser Leu Glu Gln Ser Gly Asp Lys Phe Tyr Ile Arg His Ala Pro
20 25 30
Met Ser Ser Gln Glu Gly Asn Pro Glu Thr His Cys Pro Asn Val Lys
35 40 45
Ala Cys Ala Asn Ile Tyr Gln Pro Met Leu Lys Leu Phe Ser Trp Leu
50 55 60
Leu Gly Ala Phe Asn Gly Trp Ile Ala Val Gln Ser Arg Thr Gln Gly
65 70 75 80
Val Leu Val Phe Phe
85

<210> 26351
<211> 63
<212> PRT
<213> A.fumigatus

<400> 26351
Leu Ala Pro Glu Ile Lys Gln Tyr Val Val Glu Tyr Leu Ser Thr Ser
1 5 10 15
Gly Ala Phe Gln His Cys Gln Glu Phe Leu Met Gln Leu Glu Asn Ser
20 25 30
Ile Val Thr Glu Ile Asp Arg Ile Glu Lys Val Thr Asn Glu Ala Asn
35 40 45
Pro Met Leu Arg Leu Leu Leu Glu Lys Leu Ser Val Lys Glu Asn
50 55 60

<210> 26352
<211> 96
<212> PRT
<213> A.fumigatus

<400> 26352
Ser Val Val Ile Arg Met Phe Ile Cys Ser Val Arg Leu Gln Thr Cys
1 5 10 15
Leu Ile Glu Thr Glu Ser Met Thr Ala Asn Asn Met Arg Asn Ser Lys
20 25 30
Lys Leu His Met Ala Ala Ile Ala Phe Ser Cys Trp Gly Arg Phe Asn
35 40 45
Gln Gly Arg Arg Leu Met Pro Ala Tyr Gly Ala Thr Glu Met Pro Asp
50 55 60
Leu Lys Asn Ala Phe His Asp Ser Ser Asn Asn Leu Val Asp Ile Thr
65 70 75 80
Thr Cys Phe Tyr Leu Leu Ser Phe Cys Ser Pro Gly Asn Pro Pro Asp
85 90 95

<210> 26353
<211> 74
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (53),(57)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26353
Arg Leu Ser Lys Arg Arg Ile Arg Lys Tyr Gly Thr Glu Val Thr Gly
1 5 10 15
Arg Ile Arg Met Phe Ile Met Pro Ala Lys Val Gln Arg Lys Asn Leu
20 25 30
Ser Glu Gly Thr Phe Glu Val Glu Phe His Gln Asp Leu Glu Arg Tyr
35 40 45
Val Gln Phe Pro Xaa Pro Asn Ser Xaa Val Ala Glu Asn Val Cys Lys
50 55 60
Ala Gly Gln Ser Gly Pro Gln Ala Thr Leu
65 70

<210> 26354
<211> 402
<212> PRT
<213> A.fumigatus

<400> 26354
Arg His Ala Leu Ala Val Gln Glu Lys Leu Lys Asn His Tyr Ile Pro
1 5 10 15
Glu Ile Thr Ser Ile Gln Tyr Glu Gly Asn Phe Val Glu Pro Pro Arg
20 25 30
Pro Val Pro Trp Tyr Pro Asp Gln Leu Ala Trp Trp Met Thr Thr Pro
35 40 45
Lys Asn Val Val Arg Arg Phe Lys Pro Phe Ala Ser Phe Gln Lys Phe
50 55 60
Leu Val Ala Glu Thr Asp Val Gly Asn Ile Thr Arg Gln Glu Val Val
65 70 75 80
Ser Met Ile Pro Pro Leu Leu Ile Asp Val Arg Pro Gly Met Thr Val
85 90 95
Leu Asp Met Cys Ala Ala Pro Gly Ser Lys Ser Ala Gln Leu Met Glu
100 105 110
Leu Leu His Ala Gly Glu Glu Asp Ala Met Arg Gln Val Ala Gln Gln
115 120 125
Val Lys Glu Gly Lys Ala Gly Pro Glu Pro Met Gly Pro Glu Gly Leu
130 135 140
Asp Asp Asp Gly Arg Thr Thr Gly Leu Leu Ile Ala Asn Asp Ser Asp
145 150 155 160
Phe Lys Arg Ala His Met Leu Val His Gln Met Lys Arg Leu Ser Ser
165 170 175
Pro Asn Leu Ile Val Thr Asn His Asp Ala Thr Met Tyr Pro Ser Ile
180 185 190
Arg Leu Pro Pro Leu Pro Glu Gln Asp Gly Lys Pro Gln Lys Asn Arg
195 200 205
Tyr Leu Lys Phe Asp Arg Ile Leu Ala Asp Val Pro Cys Thr Gly Asp
210 215 220
Gly Thr Ala Arg Lys Asn Ile Ser Val Trp Arg Glu Trp Gly Pro Ala
225 230 235 240
Asn Ala Leu Gly Leu His Ala Thr Gln Val Arg Ile Leu Val Arg Ala
245 250 255
Leu Gln Met Leu Lys Val Gly Gly Arg Val Val Tyr Ser Thr Cys Ser
260 265 270
Met Asn Pro Val Glu Asn Glu Ala Val Val Ala Ser Ala Ile Ser Arg
275 280 285
Cys Gly Gly Ser Ala Asn Val Glu Ile Leu Asp Cys Ser Asn Glu Leu
290 295 300
Pro Gly Leu Lys Arg Ala Ala Gly Val Arg Thr Trp Lys Val Met Asp
305 310 315 320
Arg Glu Gly Arg Met Tyr Asn Ser Trp Lys Glu Val Glu Glu Gln Arg
325 330 335
Glu Arg Glu Gly Ile Asn Gly Leu Gly Arg Ile Gly Glu Gly Met Phe
340 345 350
Pro Pro Thr Gly Glu Asn Ala Asp Leu Pro Leu Glu Arg Cys Ile Arg
355 360 365
Val Tyr Pro His Leu Gln Asp Thr Gly Gly Leu Phe Ile Thr Val Leu
370 375 380
Glu Lys Lys Ser Glu Ser Ser Arg Arg Gly Thr Lys His Thr Arg Arg
385 390 395 400

Gly Asn

<210> 26355
<211> 106
<212> PRT
<213> A.fumigatus

<400> 26355
His Thr Leu Trp Gln Gly Gly Arg Gly Gly Gly Ala Arg Gly Gln Arg
1 5 10 15
Gln Asn Tyr Ala Asp Ile Pro Lys Thr Asn Glu Lys Leu Glu Arg Phe
20 25 30
Tyr Thr Glu Gln Gly Phe Ile Pro Glu Glu Glu Arg Glu Ala Phe Trp
35 40 45
Glu Ala Leu Arg Arg Asp Leu Pro Asn Ser Phe Arg Phe Thr Gly Ser
50 55 60
Lys Gly Tyr Val Met Ala Gly Arg His Leu Pro Ala Ala Leu Asn Ser
65 70 75 80
Asp Ile Leu Lys Thr Arg Pro Cys Cys Pro Gly Lys Ala Gln Glu Ser
85 90 95
Leu Tyr Ser Arg Asn His Leu Asn Pro Val
100 105

<210> 26356
<211> 372
<212> PRT
<213> A.fumigatus

<400> 26356
Pro Gly Ser Ser Met Ser Val Ser Ser Glu Ser Gln Ser Thr Ser Pro
1 5 10 15
His Thr Tyr Glu Ala Val Ser Pro Val Asp Ile Val Arg Gly His Asn
20 25 30
His Phe Pro Met Thr Ala Ser Ser Gln Pro Gly Gly Ala Arg Thr Glu
35 40 45
Arg Ser Ser Ser Glu Ser Ser Val Ser Ser Ser Leu Arg Ser Pro Arg
50 55 60
Thr Ala Arg Phe Ala Glu Ala Thr Ser Val His Ser Pro Thr Glu Pro
65 70 75 80
Arg Gly Ala Ser Thr Ser Pro Phe Ala Asp Pro Pro Gly His Ser Gln
85 90 95
Ser Gln Pro Asp Val Ser Asp Val Gly Phe Gly Tyr Val Ala Ala Ser
100 105 110
Asp Pro Ala Gln His Ala Ser His Gln Leu Pro Pro Ala Ser Pro Leu
115 120 125
Lys Ser Ala Leu Lys Val Pro Gly Thr Pro Gly Arg Thr Leu Asn Pro
130 135 140
Leu Ser Pro Thr Phe Arg Glu Glu Phe Phe Val Glu Lys Gln Glu Lys
145 150 155 160
Ala Thr Glu Lys Glu Asn Ala Arg Asp Leu Val Ser Gly Pro Arg Glu
165 170 175
Ser Ala Asn Tyr Ser Arg Thr Leu Met Leu Thr His Cys Ser Gln Arg
180 185 190
Ile Lys Leu Arg Val Arg Leu Ala Lys Ile Phe Leu Arg Phe Val Asn
195 200 205

```
Phe Ser Cys Ser Leu Ile Val Leu Thr Ile Leu Ala Thr Thr Leu Thr
    210                 215                 220
Ile Phe His Ala Thr Ile His Leu Pro Pro Arg Asn Asp Leu Pro Pro
225                 230                 235                 240
Trp Ala Lys Gly Thr Asn Pro Trp Pro Gln Tyr Leu Phe Leu Ser Leu
                245                 250                 255
Ala Arg Ile Ser Leu Phe Ser Ser Leu Val Val Phe Trp Ala Tyr Arg
            260                 265                 270
Lys Gly Gly His Arg Arg Ala Glu Lys Val Ala Val Tyr Tyr Thr Val
        275                 280                 285
Phe Ser Val Cys Phe Phe Thr Phe Ser Val Ile Met Trp Ile Val Ala
    290                 295                 300
Ala Ala Ile Tyr Gln Asn Ser Lys Ala Asn Gly Asn Gly Gln Asp Val
305                 310                 315                 320
Trp Gly Trp Ser Ser Lys Gln Asn Leu Arg Glu Gln Leu Phe His Asn
                325                 330                 335
Asp Ile Asp Tyr Ala Leu Leu Cys Arg Leu Gln Val Ser Arg Val Leu
            340                 345                 350
Leu Pro Ser Ser Leu Arg Pro Gly Phe His His Gly Pro Arg Arg Ile
        355                 360                 365
Arg Thr Lys Arg
    370
```

<210> 26357
<211> 125
<212> PRT
<213> A.fumigatus

<400> 26357

```
Ser Trp Lys Gln Ser Asn Glu Met Phe Asp Gly Phe Thr Tyr Phe Ala
1               5                   10                  15
Ile Asn Asp Gln Gly Thr Asp Arg Gln Met Val Arg Ala Ser Tyr Phe
            20                  25                  30
Thr Val Val Arg Gln Ile Ala Arg Met Pro Gly Ser Phe Ala Val Leu
        35                  40                  45
Leu Ser Asp Thr Leu Glu Ser Val Ala Pro Asn Phe Val Gln Pro Val
    50                  55                  60
Phe Gln Leu Phe Asn Val Ala Val Ala Gln Cys Ala Gly Lys Leu Phe
65                  70                  75                  80
Pro Gln Arg Leu Thr Ser Phe Lys Leu Met Lys Asn Pro Thr Thr Ala
                85                  90                  95
Ser Thr Pro Ser Gly Arg Ile Val Val Ala Phe Val Arg Ser Ala Arg
            100                 105                 110
His Phe Ser Pro His Leu Asp Pro Ser Ala Val Phe Thr
        115                 120                 125
```

<210> 26358
<211> 459
<212> PRT
<213> A.fumigatus

<400> 26358

```
Arg Ser Ser Leu Leu Pro Leu Glu Ala Lys Leu Lys Leu Lys Gln Leu
1               5                   10                  15
Gln Lys Ser Arg Ala Arg Ser Asn Ser Leu Glu Ser Asn Asn Ile Gln
            20                  25                  30
```

```
Ser Arg Pro Thr Ser Ala Val Ser Phe Ser Ser Arg Ser Gln Glu Gln
        35                  40                  45
Ala Ser Arg Leu Arg Ser Pro Ile His Thr Thr Arg Arg His Glu Pro
    50                  55                  60
Asp Asp Val His Val Pro Leu Ser Pro Val Arg Arg Ala Ala Pro Pro
65                  70                  75                  80
Ile Glu Pro Ala Ser Pro Arg Arg Tyr Leu Leu Gly Phe Asp Lys Gly
                85                  90                  95
Leu Lys Ser Ser Asp Val Ser Leu Lys Arg Pro Pro Asn Ser Arg Leu
            100                 105                 110
Gly Thr Arg Pro Ser Ser Met His Gly Ala Leu Glu Ala Ala Met Ser
        115                 120                 125
His Ser Gly Asp Ile Phe Ala Ser Arg Ala Gln Met Leu Ala Ala Glu
    130                 135                 140
Glu Ser Gly Lys Arg Gly Lys Thr Phe Ser Glu Arg Ile Ala Glu Ser
145                 150                 155                 160
Arg Thr Ala Glu Lys Ser Arg Arg Glu Arg Glu Leu Arg Leu Gln Ile
                165                 170                 175
Asn Arg Ser Ser Ala Phe Gln Phe Asp Lys Thr Glu Met Glu Thr Phe
            180                 185                 190
Arg Thr Ala Ala Ala Glu Ala Arg Thr Asn Ala Pro Pro Arg Ser Pro
        195                 200                 205
Thr Arg Ser Arg Leu Ile Glu Thr Phe Ser Arg Asp Asp Val Val Arg
    210                 215                 220
Ser Phe Gln Asn Leu Lys Pro Ser Ile Lys Arg Ser Gln Thr Ala Pro
225                 230                 235                 240
Ser Val Arg Lys Asp Ala Gly Ser Glu Gly Pro Arg Pro Phe Ser His
                245                 250                 255
Arg Arg Pro Asn Gln Ser Glu Thr Gly Pro Ala Ser Ser Gln Ser Arg
            260                 265                 270
Gly Asp Pro Val Ser Asp Ile Asp Asn Glu Ile Arg Asp Glu Val Thr
        275                 280                 285
Thr Lys Thr Pro Asp Ser Ser Lys Phe Glu Pro Tyr Ser Ser Leu His
    290                 295                 300
Leu Ser Asn Arg Ile Leu Pro His Ser Phe Leu Thr Arg Thr Leu Ser
305                 310                 315                 320
Asp Lys Lys Ile Leu Arg Ile Pro Asp Leu Leu Arg Thr Val Arg Gly
                325                 330                 335
Pro Asp Phe Glu Leu Pro Glu Glu Ile Asp Gly Asp Tyr Val Val Phe
            340                 345                 350
Gly Ile Val Ala Ser Lys Ser Glu Pro Lys Gln Ile Lys Asp Ala Lys
        355                 360                 365
Asn Val Ser Ala Lys Glu Val Asp Pro Phe Asp Asp Gly Leu Asn Asn
    370                 375                 380
Ser Asn Arg Tyr Met Ala Ile Thr Leu Thr Asp Leu Lys Trp Thr Ile
385                 390                 395                 400
Asp Leu Phe Leu Phe Asp Thr Ala Phe Pro Arg Tyr Tyr Arg Leu Ser
                405                 410                 415
Glu Gly Ile Leu Ile Ala Ile Leu Asn Pro Thr Ile Met Pro Pro Pro
            420                 425                 430
Lys Asn Lys Ile Asp Thr Asn Arg Phe Ser Leu Ser Ile Ser Ser Ser
        435                 440                 445
Asp Ser Ser Ser Arg Glu Trp Lys Leu Pro Val
    450                 455
```

<210> 26359

<211> 203
<212> PRT
<213> A.fumigatus

<400> 26359
Leu Ala Phe Ala Pro Ile Ser Arg Ile Ser Asp Asn Gly Glu His His
1 5 10 15
Leu Tyr Pro Trp Arg Tyr Val Arg Phe His Leu Cys Leu Thr Met Gly
20 25 30
Val Ala Ala Leu Leu Tyr Ala Lys Lys Pro Pro Gln Tyr Thr Leu Ser
35 40 45
Ser Met Asp Leu Val Lys Asp Val Ser Leu Leu Met Ala Thr Tyr Leu
50 55 60
Val Gly Leu Phe Ala Ser Leu Leu Leu Tyr Arg Thr Leu Phe His Pro
65 70 75 80
Leu Arg Gln Ile Arg Gly Pro Trp Ala Ala Lys Ile Ser Ser Phe Trp
85 90 95
Leu Ser Phe Arg Leu Arg Arg Gly Pro Ser Phe Arg Ile Leu His Glu
100 105 110
Leu His Glu Glu Tyr Gly Pro Val Val Arg Val Gly Pro Ser Glu Val
115 120 125
Ser Ile Ile His Pro Glu Ala Val Arg Met Ile Tyr Gly Pro Asn Ser
130 135 140
Arg Cys Ser Lys Asn Thr Phe Tyr Asp Asn Gly His Pro Met Met Ser
145 150 155 160
Leu His Ser Tyr Arg Asp Arg Ile Ala His Asp Gln Arg Arg Arg Val
165 170 175
Trp Ser Ala Gly Phe Gly Asp Arg Ala Leu Arg Gly Tyr Glu Gln Arg
180 185 190
Met Arg Val Tyr Arg Gln Lys Leu Phe Val Phe
195 200

<210> 26360
<211> 107
<212> PRT
<213> A.fumigatus

<400> 26360
Tyr Val Gly Phe Ile Ser Leu Ser Leu Ala Leu Asn Val Leu Thr Ala
1 5 10 15
Ala Arg Ala Cys Ser Val Gly Trp Ile Asp Pro Glu His Thr Ala Pro
20 25 30
Pro Ile His Phe Phe Glu Gly Asp Gln Gly Asp Ser Ala Ile Gly Val
35 40 45
Tyr Ser Val Gln Tyr Thr Ala Thr Asp Arg Val Ala Trp Ser Gly Ile
50 55 60
Pro Gly Thr Glu Lys Cys Pro Phe Glu Gly Leu Cys Asn Pro Gln Tyr
65 70 75 80
Ile Phe Tyr His Asn Gly Tyr Gln Ile Val Leu Asn Thr Trp Arg Glu
85 90 95
Phe Arg Glu Arg Phe Leu Asp Ser Met Ala Leu
100 105

<210> 26361
<211> 79
<212> PRT

<213> A.fumigatus

<400> 26361
Val Val Pro Glu Cys Ile Gln Val Val His Val Val Ala Asp Gly Asn
1 5 10 15
Ser Thr Gln Asn Tyr Arg Glu Arg Asp Leu Leu His Arg Val Phe Thr
20 25 30
Glu Lys Arg Val Gly Ile Tyr Val Gly Val Asp Pro Thr Ala Pro Ser
35 40 45
Leu His Val Gly His Met Leu Pro Phe Met Val Leu Ala Trp Gly Tyr
50 55 60
Val Trp Gly Leu Pro Val Thr Tyr Leu Val Gly Pro Ala Ser Pro
65 70 75

<210> 26362
<211> 109
<212> PRT
<213> A.fumigatus

<400> 26362
Arg Leu Asn Arg Val Asp Ile Ile Ala Asp Lys Gln Gln Leu Gly Gly
1 5 10 15
Val Thr Ser Arg Ile Gly Asp Pro Thr Gly Arg Leu Lys Gly Arg Glu
20 25 30
Ala Met Asp Ser Ser Val Arg Lys Ala Asn Met Ala Ser Met His Met
35 40 45
Gln Leu Lys Lys Leu Gly Ala Ser Val Glu Gln Tyr Gly Arg Lys His
50 55 60
Gly Tyr His Lys Glu Lys Ile Trp Arg Arg Ala Leu Val Asn Asn Asn
65 70 75 80
Thr Trp Trp Asn Ser Thr Ser Leu Leu Glu Val Leu Arg Asp Leu Gly
85 90 95
Ala His Thr Arg Leu Gly Pro Met Leu Gly Arg Glu Thr
100 105

<210> 26363
<211> 173
<212> PRT
<213> A.fumigatus

<400> 26363
Thr Thr Thr His Gly Gly Ile Arg His Arg Tyr Trp Lys Cys Tyr Gly
1 5 10 15
Thr Ser Ala Pro Ile Arg Gly Leu Val Pro Cys Leu Val Glu Arg Arg
20 25 30
Glu Ser Ile Thr Leu Phe His Ser Val Gly His Thr Ile Thr Asp Leu
35 40 45
Asp Asp Tyr Ser Val Lys Asn Arg Met Thr Lys Gly Asp Gly Met Ser
50 55 60
Phe Ala Glu Phe Thr Tyr Pro Leu Leu Gln Ala Trp Asp Trp Trp Val
65 70 75 80
Leu Phe Arg Lys Gly Val Gln Val Gln Val Gly Gly Ser Asp Gln Tyr
85 90 95
Gly Asn Ile Leu Phe Gly Met Asp Ala Val Lys Ser Ile Ser Lys Asn
100 105 110
Thr Ala Ile Glu Gln Asp Arg Asn Pro Leu Glu Asp Asp Leu Asp Lys

```
        115                 120                 125
Pro Ile Gly Phe Thr Thr Pro Leu Leu Thr Ala Ala Asn Gly Glu Lys
    130                 135                 140
Phe Gly Lys Ser Ala Gly Asn Ala Val Trp Leu Asp Lys Asp Met Thr
145                 150                 155                 160
Ser Thr Phe Glu Leu Tyr Gln Val Ser Gln Ser Ser Ser
                165                 170
```

<210> 26364
<211> 317
<212> PRT
<213> A.fumigatus

<400> 26364

```
Ile Gln Ser Arg Val Pro Pro Ile Lys Ala Glu Asn Gly Gln Lys Lys
1               5                   10                  15
Pro Pro Ala Val Ser Phe Ile Ala Leu Gln Leu Glu Gln Asp Ala Ile
            20                  25                  30
Arg Pro Lys Arg Gly Met Tyr Glu Gly Thr Asp Ala Glu Ile His Arg
        35                  40                  45
Val Glu Gly Gly Lys Asp Asp Ala Thr Val Ala Lys Arg Gly Glu Asp
    50                  55                  60
Phe Glu Glu Val Asp Glu Thr Phe Ser Tyr Leu Arg Arg Pro Glu Pro
65                  70                  75                  80
Gly Gln Gly Asp Lys Glu Gln Arg Phe Ile Arg Trp Ser Gln Ser Thr
                85                  90                  95
Glu Ile Gly Asp Phe Ile Arg Asp Ala Ala Arg Ala Lys Glu Phe Ile
            100                 105                 110
Val Thr Ile Glu Gly Ala Pro Ala Gly Leu Glu Gln Ile His Val Ala
        115                 120                 125
Val Pro Ser Phe Asp Glu Arg Thr Tyr Phe Leu Arg Met Arg Leu Arg
    130                 135                 140
Lys Ile Ser Gly Arg Ile Gln Gly Leu Ala Glu Ile Lys His Glu Cys
145                 150                 155                 160
Asp Ala Leu Ala His Arg Gly Ala Gln Arg Val Ala Leu Gly Gly Phe
                165                 170                 175
Gly Ile Leu Ala Phe Trp Trp Tyr Ile Val Tyr Lys Leu Thr Phe Glu
            180                 185                 190
Thr Asp Leu Gly Trp Asp Thr Met Glu Pro Val Thr Tyr Leu Val Ser
        195                 200                 205
Leu Ser Thr Leu Met Gly Gly Tyr Leu Trp Phe Leu Tyr His Asn Arg
    210                 215                 220
Glu Ile Ser Tyr Arg Ser Ala Leu Asp Phe Thr Ile Asn Ala Arg Gln
225                 230                 235                 240
Lys Lys Leu Tyr Gln Met Lys Gly Ile Asp Leu Gln Val Trp Glu Ser
                245                 250                 255
Leu Ile Asp Glu Ala Asn Ala Ile Arg Arg Glu Ile Lys Asn Ile Ala
            260                 265                 270
Ala Glu Tyr Asp Val Asp Trp Asp Glu Arg Lys Asp Glu Gln Asp Asp
        275                 280                 285
Arg Val Thr Glu Ala Leu Lys Lys Glu Arg Arg Leu Lys Asn Gly Ser
    290                 295                 300
Gln Lys Glu Glu Arg Pro Asn Asp Asp Arg Asp Asp Asp
305                 310                 315
```

<210> 26365

<211> 151
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (28)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26365
Leu Leu Lys Gln Ala Val Ala Ala Asp Ser Ala Ile Gly Thr Ser Leu
1 5 10 15
Trp Met Thr Val Glu Ser Cys Pro Ala Asp Asn Xaa Gln Val Leu Leu
20 25 30
Ser Glu Ile Leu Asp Glu Phe Glu Trp Gln Phe Gly Phe Lys Ile Leu
35 40 45
Arg Ser Gly Pro Ser Glu Thr Lys Lys Glu Gly Glu Lys Lys Glu Pro
50 55 60
Ala Gln Asn Ala Asn Lys Gly Ser Met Gln Asn Ala Asn Pro Ser Lys
65 70 75 80
Gln Gly Ile Glu Lys Asp Tyr Asp Leu Ile Thr Lys Ala Arg Glu Val
85 90 95
Leu Lys Ser Lys Glu Thr Asn Arg Ile Gly Ile Lys Asp Val Ala Glu
100 105 110
Ala Trp Asn Leu Ala Asp Thr Glu Leu Trp Arg Phe Val Arg Ala Tyr
115 120 125
Arg Tyr Val Leu Pro Cys Pro Leu His Pro Met Pro Arg Arg Gln Phe
130 135 140
Ile Asp Lys Val His Tyr Glu
145 150

<210> 26366
<211> 79
<212> PRT
<213> A.fumigatus

<400> 26366
Arg Ala Arg Arg Pro Thr Gly Leu Ala Ser Lys Thr Trp Leu Lys Leu
1 5 10 15
Gly Thr Trp Arg Thr Leu Asn Ser Gly Ala Ser Ser Glu Leu Thr Gly
20 25 30
Thr Cys Phe His Ala Pro Tyr Thr Gln Cys Leu Gly Asp Ser Ser Leu
35 40 45
Thr Lys Phe Thr Thr Asn Arg Ala Arg Ser Val Val Glu Arg Lys Lys
50 55 60
Trp Glu Ala Glu Glu Lys Asp Phe Val Gly Ala Lys Val Arg Glu
65 70 75

<210> 26367
<211> 92
<212> PRT
<213> A.fumigatus

<400> 26367
Ala Pro Val Asp Ile Pro Met Ala Pro Gly Ser Leu Thr Ala Pro Val
1 5 10 15

```
Val Glu Glu Gln Pro Ser Lys Ala Val Ser Leu Ala Gln Leu Thr Glu
            20                  25                  30
Asp Trp Asp Asp Thr Ile Arg Phe Tyr Leu Asn Gly Thr Lys Val Ile
        35                  40                  45
Leu Asp Asn Val Asp Pro Glu Leu Thr Leu Leu Glu Tyr Leu Arg Gly
    50                  55                  60
Ile Gly Leu Thr Gly Thr Lys Leu Gly Cys Ala Glu Gly Gly Cys Gly
65                  70                  75                  80
Ala Cys Thr Val Val Ser Gln Asp Asp Ile Asp Ile
                85                  90
```

<210> 26368
<211> 81
<212> PRT
<213> A.fumigatus

<400> 26368

```
Ala Tyr Leu Cys Asp Arg Asn Ser Tyr Phe Leu Gln Val Val Ser His
1               5                   10                  15
Ile Asn Pro Thr Thr Lys Lys Val Tyr His Ala Ser Val Asn Ala Cys
            20                  25                  30
Leu Ala Pro Val Ile Ser Val Asp Gly Lys His Val Ile Thr Val Glu
        35                  40                  45
Gly Ile Gly Asn Val Lys Lys Pro His Ala Val Gln Gln Arg Leu Ala
    50                  55                  60
Ile Gly Asn Gly Ser Gln Cys Gly Phe Cys Thr Pro Gly Ile Val Met
65                  70                  75                  80
Val
```

<210> 26369
<211> 77
<212> PRT
<213> A.fumigatus

<400> 26369

```
Pro Tyr Phe Ala Ala Ser Tyr Ala Thr Arg Asn Thr Val Ser Ala Met
1               5                   10                  15
Lys Ala Ala Asn Ser Val Val Leu His Lys Ser Arg Thr Thr His Ser
            20                  25                  30
Tyr Arg Gly Val Val Trp Glu Gln Leu Arg Asn Ile Arg Ala Pro Leu
        35                  40                  45
Glu Pro Lys Leu Ser Ser Asn Ile Asp Val Ser Tyr Tyr Pro Ile Asp
    50                  55                  60
Glu Ile Pro Glu Glu Asp Thr Asn Ala Ile His Arg Ala
65                  70                  75
```

<210> 26370
<211> 176
<212> PRT
<213> A.fumigatus

<400> 26370

```
Cys Leu Ser Leu Pro Ser Asn Ser Ser Ala Glu Leu Asp Lys Met Ile
1               5                   10                  15
Arg Asp Pro Ser Ile Ser Lys Glu Lys Lys Arg Gln Glu Ala Glu Ile
```

```
            20                  25                  30
Ala Ala Arg Lys Glu Ser Thr Phe Leu Arg Phe Leu Arg Thr Lys Glu
        35                  40                  45
Thr Pro Ala Asn Phe Gln Thr Ile Lys Ile Ile Gly Lys Gly Ala Phe
    50                  55                  60
Gly Glu Val Lys Leu Val Gln Arg Lys Thr Asp Gly Lys Ile Tyr Ala
65                  70                  75                  80
Leu Lys Ser Leu Ile Lys Thr Glu Met Phe Lys Lys Asp Gln Leu Ala
                85                  90                  95
His Val Arg Ala Glu Arg Asp Ile Leu Ala Asp Ser Lys Asp Asn Pro
            100                 105                 110
Trp Leu Val Lys Leu His Ala Ser Phe Gln Asp Ser Ala Tyr Leu Tyr
        115                 120                 125
Leu Leu Met Glu Phe Leu Pro Gly Gly Asp Leu Met Thr Met Leu Ile
    130                 135                 140
Lys Tyr Glu Ile Phe Ser Glu Asp Ile Thr Arg Phe Tyr Met Ala Glu
145                 150                 155                 160
Ile Val Met Ala Ile Glu Ala Val His Lys Leu Gly Phe Leu His Arg
                165                 170                 175
```

<210> 26371
<211> 181
<212> PRT
<213> A.fumigatus

<400> 26371

```
Ser Tyr Thr Asp Thr Asn Ser Ala Ala Phe Ser Asp Ile Lys Pro Asp
1               5                   10                  15
Asn Ile Leu Leu Asp Arg Gly Gly His Val Lys Leu Thr Asp Phe Gly
            20                  25                  30
Leu Ser Thr Gly Gly Lys Lys Thr His Asp Asn Ser Tyr Tyr Gln Asn
        35                  40                  45
Leu Leu Lys Asn Ser Thr Ser Lys Asp Lys Asn Arg Asn Ser Gly Tyr
    50                  55                  60
Phe Asn Asp Ala Ile Asn Leu Thr Val Ser Asn Arg Gly Gln Ile Asn
65                  70                  75                  80
Thr Trp Arg Lys Ser Arg Arg Ala Met Ala Tyr Ser Thr Val Gly Thr
                85                  90                  95
Pro Asp Tyr Ile Ala Pro Glu Ile Phe Asn Gly Gln Gly Tyr Thr Tyr
            100                 105                 110
Leu Cys Asp Trp Trp Ser Val Gly Ala Ile Met Phe Glu Cys Leu Val
        115                 120                 125
Gly Trp Pro Pro Phe Cys Ala Glu Asp Thr Thr Asp Thr Tyr Arg Lys
    130                 135                 140
Ile Val Asn Trp Arg Glu Cys Leu Tyr Phe Pro Glu Glu Leu Thr Leu
145                 150                 155                 160
Ser Arg Asp Ser Glu Ser Leu Ile Arg Arg Tyr Val Pro Val Pro Val
                165                 170                 175
Cys Ser Phe Val Thr
            180
```

<210> 26372
<211> 210
<212> PRT
<213> A.fumigatus

<400> 26372
Ser Phe Ala Leu Ile Val Val His Phe Pro Ser Thr Ser Ile Arg Ser
1 5 10 15
Leu Trp Tyr His Asp Ser Pro Leu Asn Ala Leu Phe Asn Cys Asn Ile
20 25 30
Phe Ser Met Pro Val Phe Thr Glu Tyr Ala Ala Ser Ser Arg Glu Leu
35 40 45
Arg Val Leu Pro Ser Phe Ala Pro Pro Leu Pro Arg Leu Ser Pro Arg
50 55 60
Phe Thr Arg Pro Glu Gly Ile Glu Lys Tyr Glu Val Val Ile Val Gly
65 70 75 80
Ala Gly Pro Ala Gly Leu Met Leu His Leu Leu Leu Ala Arg Tyr Gly
85 90 95
Leu Asn Asp Asp Ser Leu Leu Cys Ile Asp Ala Lys Pro Gly Thr Leu
100 105 110
Lys Ser Gly Gln Ala Asp Gly Leu Gln Pro Arg Thr Leu Glu Val Leu
115 120 125
Lys Ser Leu Gly Leu Ala Asp Glu Ile Leu Thr Asp Gly Cys His Met
130 135 140
Glu Glu Val Ala Phe Trp Asn Pro Ser Pro Asp Lys Glu Lys Val Ile
145 150 155 160
Glu Arg Thr Ser Ile Val Pro Asp Val Ala Val Pro Ala Arg Phe Gln
165 170 175
His Glu Val Thr Ile His Gln Gly Arg Ile Glu Arg Ile Leu Glu Thr
180 185 190
Asp Leu Leu Arg Tyr Ser Lys Arg Gly Val Gln Arg Asn Thr Lys Leu
195 200 205
Val Asp
210

<210> 26373
<211> 72
<212> PRT
<213> A.fumigatus

<400> 26373
Ser Pro Ser Asp Arg Leu Ile Val Ser Leu Val Asp Thr Val Ile Ala
1 5 10 15
Asp Ser Gly Ser Ser Val Gly His Ser Leu Asp Thr Thr Val Asn Phe
20 25 30
Thr Ser Ile Thr Pro Arg Ser Tyr Ala Ser Glu Val Cys Phe Thr Arg
35 40 45
Met Thr Thr Phe Lys Thr Asn Pro Ala Gln Glu Lys Leu Asn Pro Leu
50 55 60
Arg Ser Asn Ile Ser Arg Thr Ile
65 70

<210> 26374
<211> 178
<212> PRT
<213> A.fumigatus

<400> 26374
Val Ala Leu Lys Arg Leu Leu Arg Ser Tyr Glu Val Pro Pro Thr Ser
1 5 10 15
Thr Pro Ser Arg Ile Pro Pro Thr Gln Thr Ser Asp Asn Asp Arg Leu

```
            20                  25                  30
Arg Ile Ala His Ser Leu Cys Leu Leu Val Phe Leu His Ile Arg Ala
        35                  40                  45
Gln Gln Ser Ile Leu Asn Glu Ser Phe Phe Gln Thr Leu Glu Lys Met
    50                  55                  60
Lys Leu Asn Ser Leu Ile Ser Phe Leu Cys Ile Ala Ala Ser Ala Leu
65                  70                  75                  80
Cys Thr Ser Ser Asp Pro Asn Lys Tyr Glu Lys Tyr Lys Ser Val Ser
                85                  90                  95
Pro Val Ala Pro Ile Gly Leu Thr Asp Val Thr Tyr His Asp Leu Thr
            100                 105                 110
Ser Lys Pro Arg Asp Phe His Val Ala Val Leu Leu Thr Ala Thr Asp
        115                 120                 125
Ala Arg Tyr Gly Cys Ala Leu Cys Arg Glu Phe Gln Ser Glu Trp Asp
    130                 135                 140
Leu Ile Ala Arg Ser Trp Asn Lys Gly Ser Lys Ser Asp Asp Leu Lys
145                 150                 155                 160
Leu Leu Leu Ala Thr Leu Asp Phe Ser Asn Gly Lys Glu Thr Phe Gln
                165                 170                 175
Lys Val
```

<210> 26375
<211> 143
<212> PRT
<213> A.fumigatus

<400> 26375

```
Lys Met Phe Ser Pro Leu Ser Ala Asp Gln Leu Tyr Thr Trp Ile Ser
1               5                   10                  15
Arg His Leu Pro Glu Gly Ala Lys Pro Pro Leu Ile Arg Pro Ile Asn
            20                  25                  30
Tyr Met Arg Ile Ile Ser Ala Ile Thr Leu Leu Met Gly Val Ile Thr
        35                  40                  45
Leu Phe Thr Val Leu Ser Pro Tyr Ala Leu Pro Ile Ile Arg Asn Arg
    50                  55                  60
Asn Leu Trp Ala Gly Phe Ser Leu Ile Ala Ile Leu Leu Phe Thr Ser
65                  70                  75                  80
Gly His Met Phe Asn His Ile Arg Lys Val Pro Tyr Val Val Gly Asp
                85                  90                  95
Gly Lys Gly Gly Ile Ser Tyr Phe Ala Gly Gly Phe Ser Asn Gln Phe
            100                 105                 110
Gly Met Glu Thr Gln Ile Val Ala Ala Ile Cys Lys Ser Phe Thr Phe
        115                 120                 125
Arg Ser Leu His His Arg Gly Arg Gly Thr Arg Lys Val Arg Arg
    130                 135                 140
```

<210> 26376
<211> 62
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (3)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26376
Cys Tyr Xaa His Thr Ser Lys Glu Gly Thr Asp His Ala Lys Asn Lys
1 5 10 15
Ala Cys Ile Tyr Arg Pro Lys Asp Gly Thr Asp Val Phe Asp Val Ser
20 25 30
Leu Val Leu Cys Ser Asp Pro Cys Lys Leu Phe Ile Lys Lys Ile Thr
35 40 45
Gly Val Leu Phe Phe Ser Asn Thr Met Val Leu Ser Glu Arg
50 55 60

<210> 26377
<211> 67
<212> PRT
<213> A.fumigatus

<400> 26377
Ser Trp Thr Gln Ile Pro Tyr Arg Gln Glu Arg Val Leu Arg His Thr
1 5 10 15
Asp Gln Leu Val Arg Arg Thr Val Trp Asp Pro Asn Ser Glu Asn His
20 25 30
Ser Val Pro Thr Asn Ser Val Gly Thr Leu Tyr Pro Pro Ser Thr Lys
35 40 45
Phe Lys His Pro Pro Ala Pro Ile Leu Cys Val Phe Trp Phe Gly Ile
50 55 60
Ser Leu Asn
65

<210> 26378
<211> 61
<212> PRT
<213> A.fumigatus

<400> 26378
Asp Val Arg Phe Asn Phe Met Gln Gln Thr Trp Phe Gln Val Thr Leu
1 5 10 15
Arg Tyr Leu Ser Leu Thr Leu Leu Ser Lys Gly Phe Phe His Ser Asn
20 25 30
Phe Ser Ser Arg Ala Tyr Ile His Gly His Ser Ser Leu Asp Glu Ser
35 40 45
Ala Ala Phe Tyr Thr Lys Ala Lys Leu Thr Met Ser Arg
50 55 60

<210> 26379
<211> 72
<212> PRT
<213> A.fumigatus

<400> 26379
His Glu Ser Val Val Leu Gln Val Leu Arg Tyr Ser Ala Leu Val Ala
1 5 10 15
Gly Leu Ile Tyr Gly Val Tyr His Gln Asn Ser Ile Thr Ala Gln Ala
20 25 30
Lys Gln Ala Glu Ala Asp Arg Glu Tyr Ala Arg Gln Glu Arg Leu Ile
35 40 45
Gln Gln Ala Lys Ala Glu Trp Lys Lys Lys Thr Ala Pro Lys Asp Thr

```
    50                  55                  60
Lys Ala Glu Ser Gly Gly Arg Phe
65                  70
```

<210> 26380
<211> 76
<212> PRT
<213> A.fumigatus

<400> 26380

```
Phe Ser Val Val Leu Leu Thr Tyr Arg Pro Ser Ser Glu Thr Cys Thr
1               5                   10                  15
Tyr Pro Gly Val Ala Val Tyr Leu Tyr Thr Ile Val Gly Pro Glu Glu
            20                  25                  30
Gln Glu Met Cys Gly Leu Ser Gly Phe Ala Ala His Leu Leu Ser Pro
        35                  40                  45
Gly Thr Ile Asn Tyr Phe Val Gln Val Val Cys Asp Val Ala Ser Arg
    50                  55                  60
Leu His Arg Pro Gly Leu Ala Gly His Ala Leu Arg
65                  70                  75
```

<210> 26381
<211> 138
<212> PRT
<213> A.fumigatus

<400> 26381

```
Phe Asp Val Ala Ser Arg Phe Asn Ile Val Lys Ser Gly Asn Met Thr
1               5                   10                  15
Glu Thr Val Phe Asn Lys Glu Arg His Ile Lys Tyr Tyr Leu Arg Cys
            20                  25                  30
Leu Lys Thr Phe Leu Pro His Gln Tyr Thr Ser Asn Asp Ser Asn Arg
        35                  40                  45
Met Leu Leu Ala Phe Phe Thr Ile Ser Gly Leu Asp Ile Leu Gly Ala
    50                  55                  60
Leu Asp Ser Lys Ile Thr Ala Glu Glu Arg Lys Gly Phe Ile Asp Trp
65                  70                  75                  80
Leu Tyr His Cys Gln Val Pro Ser Gly Gly Phe Arg Gly Phe Thr Gly
                85                  90                  95
Thr Asp Phe Gly Ile Asp Lys Arg Thr Pro Glu Asn Glu Ala Trp Asp
            100                 105                 110
Pro Ala Asn Val Pro Ala Thr Phe Trp Ala Ala Gly Ser Ala Thr Ser
        115                 120                 125
Tyr Ser Arg Pro Ala Gly Arg Lys Arg Ala
    130                 135
```

<210> 26382
<211> 163
<212> PRT
<213> A.fumigatus

<400> 26382

```
Ser Gln Asp Leu Gly Ile Gly Thr Val Leu Lys Gly Ile Leu Asp Leu
1               5                   10                  15
Ser Glu Pro Asp Thr Thr Thr Met Val Asn Asn Pro Ser Asp Pro Val
            20                  25                  30
```

```
Gly Leu Asp Trp Gly Lys Leu His Trp Ser Ile Lys Pro Pro Asn Ser
        35                  40                  45
Gly Gln Glu Tyr Ala Lys Gly Cys Gln Ile Leu Tyr Thr Gln Arg Val
    50                  55                  60
Ile Leu Thr Gly His Leu Arg Gln Ile Thr Val Ser Ser Ile Asn Met
65                  70                  75                  80
Glu Asp Thr Val His Ile Thr Gly Leu Lys Leu Ser Phe Asp Asp Gly
                85                  90                  95
Thr Asn Thr Gln Leu Gly Tyr Arg Ser Gln Asp Asn Ser Ser Thr Asp
            100                 105                 110
Val Val Ala Phe Gly Gly Phe Val Val Ala Val Gly Thr Thr Gly Ile
        115                 120                 125
His Gly Leu Gln Ile Ile Asp Asn Arg Ser Asp Ser Thr Lys Trp Phe
    130                 135                 140
Gly Ser Asn Arg Arg Cys Leu His Arg Gly Ala Gly Arg Ser Arg Ser
145                 150                 155                 160
Lys Gly Glu
```

<210> 26383
<211> 66
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (4),(50)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26383

```
Val Tyr Leu Xaa Arg Arg Phe Met Gln Thr Arg Leu Pro Ile Ser Phe
1               5                   10                  15
Lys Lys Tyr Leu Val Ala Ile Asn Leu Val Asn Gln Ser Pro Leu Glu
            20                  25                  30
Ser Thr Leu Ser Ser Leu Pro Met Phe Met Val Leu Val Ser Phe Ile
        35                  40                  45
Glu Xaa Asn Pro Pro Ala Gly Arg Ala Val Pro Arg Asn Gln Ile Pro
    50                  55                  60
Arg Thr
65
```

<210> 26384
<211> 322
<212> PRT
<213> A.fumigatus

<400> 26384

```
Ser Ser Glu Ala Ala Val Met Thr Ser Ser Met Ser Pro Leu Pro Ser
1               5                   10                  15
Ala Ile Pro Arg Thr Ile Pro Arg Pro Asn Asp Leu Gln Ser Ser Gln
            20                  25                  30
Arg Gln Thr Thr Ser Ser Arg Val Ser Pro Lys Pro Glu Pro Glu Leu
        35                  40                  45
Pro Arg Pro Lys Phe Arg Leu His Leu Asn Asp Leu Arg His Pro Ala
    50                  55                  60
Thr Leu Ser Phe Ile Ser Leu Val Pro Asp Val Ala Ser Thr Leu Asp
```

```
65                  70                  75                  80
Thr Ala Leu Lys Ala Ile Val Arg His Leu Tyr Thr Pro Pro Ser Leu
                85                  90                  95
Ser Pro Asn Glu Ser Ser Asn Ala Pro Ala Arg Lys Cys Pro Arg Pro
            100                 105                 110
Ser Phe Thr Pro Cys Ile Pro Pro Thr Arg Ser Val Thr Val Leu Val
        115                 120                 125
Arg Asp Ile Ser Gly Val Ala Tyr Thr Thr Gly Ile Glu Leu Asp Asp
    130                 135                 140
Asp His Lys Glu Ile His Leu Ser Leu Ser Tyr Val Lys Thr Ser Ala
145                 150                 155                 160
Glu Asn Asn Pro Asp Pro Ala Ala Glu Ile Thr Gly Val Leu Thr His
                165                 170                 175
Glu Leu Val His Cys Tyr Gln His Thr Thr Pro Asn Gly Asp Glu Ser
            180                 185                 190
Ala Ser Val Pro Arg Pro Pro Gly Gly Leu Ile Glu Gly Ile Ala Asp
        195                 200                 205
Phe Val Arg Leu Lys Ala Gly Leu Glu Pro Pro His Trp Lys Arg Pro
    210                 215                 220
Thr Ser Ala Lys Glu Arg Pro Ser Lys Trp Asp Gln Gly Tyr Gln His
225                 230                 235                 240
Thr Ala Tyr Phe Leu Ala Trp Leu Glu Asp Val Arg Val Gly Lys Gly
                245                 250                 255
Ala Val Gly Met Leu Asn Asp Arg Leu Leu Arg Val Gly Tyr Val Gly
            260                 265                 270
Glu Asp Ser Glu Ser Glu Asn Gln Asp Thr Gln Ser Phe Trp Arg Gly
        275                 280                 285
Leu Phe Gly Lys Gly Ile Ser Glu Leu Trp Glu Glu Tyr Gly Glu Tyr
    290                 295                 300
Leu Asp Arg Ser Arg Asn Ser Gly Asn Trp Glu Asp Glu Ile Ile Asn
305                 310                 315                 320
Pro Glu
```

<210> 26385
<211> 102
<212> PRT
<213> A.fumigatus

<400> 26385

```
Cys Lys Ser Ile Asp Ile Met Phe Leu Ser Arg Arg Lys Ser Asn His
1               5                   10                  15
Gln Val Thr Ala Gly Arg Gly Asp Ser Cys His Pro Met Leu Pro Tyr
            20                  25                  30
Leu Ala Gln Gly Ala Asn Ser Ser Met Glu Asp Gly Ala Ala Leu Gly
        35                  40                  45
Thr Ile Leu Lys Ser Val Thr Arg Lys Glu Gln Leu Pro Asn Ala Leu
    50                  55                  60
His Thr Phe Glu Lys Leu Arg Lys Leu Arg Ser Glu Ala Ile Ala Arg
65                  70                  75                  80
Glu Thr Phe Lys Gln Val Cys Thr Ile Val Phe Tyr His Gly Gly Trp
                85                  90                  95
Pro Asp Pro Arg Leu Gly
            100
```

<210> 26386

<211> 245
<212> PRT
<213> A.fumigatus

<400> 26386
Val Gly Ala Gly Leu Gln Val Thr Pro Asn Gly Ser Arg Leu Leu Arg
1 5 10 15
Ile Trp Asp Leu Pro Gln Thr Leu Trp Asp Gln Ala Ala Glu Pro Thr
20 25 30
Gln Leu Thr Val His Arg Tyr Ser Gly Ala Val Leu Ala Arg Glu Val
35 40 45
Asp Phe Asp Lys Asn Ile Arg Arg Lys Tyr Gly Val Pro Phe Val Asp
50 55 60
Leu His Arg Gly Asp Leu Gln Gln Gly Leu Tyr Gln Arg Ala Gln Gln
65 70 75 80
Leu Gly Val Lys Phe His Leu Asn Ala Arg Val Gln Ser Val Asp Pro
85 90 95
Ala Val Pro Ser Leu Thr Thr Leu Ser Gly His Gln Tyr His Ala Asp
100 105 110
Leu Ile Val Gly Ala Asp Gly Leu Trp Ser Arg Thr Arg Glu Cys Phe
115 120 125
Leu Gly Thr Ala Asp Pro Pro Lys Pro Thr Gly Asp Leu Ala Tyr Arg
130 135 140
Ile Val Leu Ser Leu Asp Gln Ile Lys Gln Ser Pro Leu Arg Asp Trp
145 150 155 160
Val Ser His Pro Glu Val His Phe Trp Ile Gly Pro Arg Ser His Ala
165 170 175
Val Gly Tyr Ser Leu Lys Ala Gly Lys Met Tyr Asn Leu Val Leu Leu
180 185 190
Val Pro Asp Asp Leu Pro Pro Gly Val Thr Lys Gln Pro Gly Asn Val
195 200 205
Glu Glu Met Lys Leu Leu Phe Glu Gly Trp Asp Pro Val Tyr Ala Glu
210 215 220
Phe Asp Leu Pro Leu Cys Leu Pro Thr Phe Met Thr Asp Ser Ile Gln
225 230 235 240
Gly Ser Leu Asn Phe
245

<210> 26387
<211> 150
<212> PRT
<213> A.fumigatus

<220>
<221> UNSURE
<222> (94)
<223> Identity of amino acid sequences at the above locations are unknown.

<400> 26387
Arg Arg Cys Gly Met Ser Lys Lys Leu His Ala Thr Gly Glu Lys Ala
1 5 10 15
Pro Pro Ala Ala Gly Gly Val Ser Val Ala Phe Lys Gln Val Phe Phe
20 25 30
Ser Tyr Pro Ala Arg Pro Glu Ser Pro Val Leu His Gly Leu Asp Leu
35 40 45
Ser Ile Gln Arg Gly Gln Phe Ala Ala Leu Val Gly Pro Ser Gly Ala

```
    50                  55                  60
Gly Lys Ser Thr Ile Val Ser Leu Val Glu Arg Leu Tyr Ala Pro Thr
65                  70                  75                  80
Ala Glu Thr Val Ala Ile Asp Gly His Asp Ile Ala Tyr Xaa Asp Thr
                85                  90                  95
Ser Phe Arg Ser Ala Ile Ala Tyr Gly Pro Gln Gln Ser Val Leu Phe
            100                 105                 110
Asn Gly Thr Ile Pro Ile Gln Pro Asp Pro Ser Gly Arg Asp Pro Gly
        115                 120                 125
Lys Gln Val Phe Gln Glu Arg Thr Ser Gly Lys Arg Cys Lys Ala Ser
    130                 135                 140
Gln His Pro Arg His Glu
145                 150
```

<210> 26388
<211> 311
<212> PRT
<213> A.fumigatus

<400> 26388

```
Glu Gln Gly Thr His Arg Asp Ile Met Asp Ala Arg Gly Glu Asn Ala
1               5                   10                  15
Glu Leu Val Ser Met Gln Asn Leu Asn Ile Asn Gly Ser Glu Glu Gly
            20                  25                  30
Asn Ser Thr Ala Ala Ala Ser Ser Lys Cys Ser Thr Glu Glu Ile Ser
        35                  40                  45
Glu Lys Ala Gly Ala Leu Glu Thr Ser Thr Val Ala Asp Val Pro His
    50                  55                  60
Ala Asp Thr Arg Glu Pro Ala Asp Glu Val Val Glu Gly Glu Arg Thr
65                  70                  75                  80
Phe Ser Ala Thr Ala Gln Ser Met Gly Ala Leu Leu Arg Pro Tyr Ser
                85                  90                  95
Phe Val Leu Val Ile Ala Thr Val Gly Ala Ile Val Ile Gly Gly Thr
            100                 105                 110
Tyr Cys Gly Ser Ala Leu Ile Phe Gly Asn Val Val Ser Lys Leu Ser
        115                 120                 125
Tyr Cys Glu Glu Pro Gly Ser Ile Arg His Ala Gly Glu Leu Phe Gly
    130                 135                 140
Leu Leu Phe Phe Ile Leu Ala Ile Val Glu Phe Thr Ala Asn Phe Ser
145                 150                 155                 160
Ser Trp Ser Leu Phe Gly Trp Val Ala Glu Gln Val Val Tyr Lys Val
                165                 170                 175
Arg Val Leu Ser Leu Arg Ser Ile Leu Glu Gln Asp Leu Ala Trp His
            180                 185                 190
Glu Ser Gln Gly Arg Asn Pro Ser Leu Leu Leu Gly Leu Ile Thr Lys
        195                 200                 205
Asp Ser Thr Ala Leu Gly Gly Leu Thr Gly Ser Val Ile Cys Thr Leu
    210                 215                 220
Leu Ser Ile Leu Val Ser Leu Val Ala Thr Ile Thr Met Thr His Ile
225                 230                 235                 240
Ile Ala Trp Lys Ile Ala Ile Val Cys Leu Ser Val Val Pro Leu Leu
                245                 250                 255
Leu Gly Ala Gly Tyr Met Arg Val Thr Thr Leu Ala Arg Phe Glu Glu
            260                 265                 270
Glu His Leu Glu Ala Phe Ala Asn Ser Asn Ala Ile Thr Val Glu Ala
        275                 280                 285
```

```
Val Lys Ser Ile Lys Asn Gly Asp Gly Ala Phe Thr Gly Thr Arg Lys
    290                 295                 300
Ile Leu Asp His Thr Arg Arg
305                 310
```

<210> 26389
<211> 159
<212> PRT
<213> A.fumigatus

<400> 26389

```
Pro Ala Leu Lys Arg Asn Ile Trp Lys Arg Ser Gln Thr Pro Thr Pro
1               5                   10                  15
Ser Pro Ser Lys Pro Ser Asn Pro Ser Lys Thr Val Met Ala Leu Leu
            20                  25                  30
Leu Glu His Glu Lys Ser Trp Thr Ile Pro Val Val Asn Phe Lys Lys
        35                  40                  45
Pro Met Arg Gln Ile Thr Lys His Ser Ala Trp Ala Asn Leu Trp Leu
    50                  55                  60
Ala Val Gly Tyr Gly Leu Ser Asn Phe Leu Tyr Ala Leu Ala Tyr Trp
65                  70                  75                  80
Trp Gly Ser Thr Arg Ile Met Ala Gly Glu Tyr Thr Pro Thr Gln Phe
                85                  90                  95
Phe Ile Val Gln Leu Ala Leu Leu Val Ser Ser Gln Leu Trp Gly Gln
            100                 105                 110
Ala Phe Ala Leu Ala Pro Asp Val Ser Arg Ala Phe Ser Ala Thr Arg
        115                 120                 125
Arg Leu Leu Asn Met Leu Asp Met Gly Ser Thr Lys Lys Leu Ser Ala
    130                 135                 140
Pro Leu Thr Pro Val Trp Asp Val Glu Glu Ala Thr Arg Asn Trp
145                 150                 155
```

<210> 26390
<211> 289
<212> PRT
<213> A.fumigatus

<400> 26390

```
Thr Lys Lys Ile Lys Cys Asp Glu Thr Pro Pro Tyr Cys Asn Gln Cys
1               5                   10                  15
Thr Arg Arg Gly Tyr Asp Cys Pro Gly Tyr Ser Arg Pro Leu Lys Trp
            20                  25                  30
Ser Ser Lys Tyr Glu Val Ala Asn Thr Glu Leu Gly Ser Lys Ser Asn
        35                  40                  45
Ala Arg Arg Lys Arg Leu Asp Cys Ser Asp Ser Asp Asp Lys Val Leu
    50                  55                  60
Arg Leu Glu Val Met Leu Ser His Asn Lys Arg Gln Thr Glu Met Gln
65                  70                  75                  80
Arg Asp Val Phe Ala Ala Glu Glu His Thr Ser Tyr Ala Ala Gly Lys
                85                  90                  95
Glu Gln Ser Ser Gly Asp Thr Val Gln Ser His Leu Gln Glu Asp Asp
            100                 105                 110
Leu Glu Pro Asn Leu Ala Leu Pro Ile Phe Ser Asn Val Glu Phe Asn
        115                 120                 125
Asp Leu His Leu Asp Val Thr Ser Ser Leu Glu His Glu Leu Asp Ala
    130                 135                 140
```

```
Ser Thr Ser Val Thr Met Leu Trp Asn Asp Ser Phe Thr Pro Thr Leu
145                 150                 155                 160
Ile Thr Phe Glu Asp Arg Asn Thr Ser Leu Leu Arg His Tyr Phe Ser
                165                 170                 175
Val Ile Cys His Ile Asn Cys Ala Phe Asp Ser Glu Lys Asn Pro Phe
            180                 185                 190
Arg Val Cys Val Ser Asp Met Met Lys Gly Cys Pro Leu Ile Tyr His
        195                 200                 205
Cys Val Leu Ser Met Ser Ala Ala His Leu Ala Thr Gln Val Leu Glu
    210                 215                 220
Val Ser Ser Glu Ala Leu Glu His Arg Thr Lys Ala Leu Ser Cys Leu
225                 230                 235                 240
Gln Ala Gln Ile Ala Lys Met Gly Lys Gly Lys Gly Pro Ser Asp Asp
                245                 250                 255
Tyr Ala Ser Ser Leu Asn Leu Gly Ala Leu Phe Gly Ser Ile Leu Leu
            260                 265                 270
Gly Met Thr Asp Val Arg Leu Ala Arg Ala Ser Tyr Leu Leu Asn Arg
        275                 280                 285
Ser
```

<210> 26391
<211> 77
<212> PRT
<213> A.fumigatus

<400> 26391

```
Thr Glu Gly Pro Leu Gly Phe Tyr Lys Gly Leu Ser Gln Asn Leu Leu
1               5                   10                  15
Lys Leu Thr Pro Pro Val Ser Ile Asn Tyr Leu Val Phe Glu Asn Pro
            20                  25                  30
Asn Thr Lys Leu Gly Ile Glu Ile Thr Thr Leu Ile Pro Arg Ser Lys
        35                  40                  45
Lys Ser Phe Phe Leu Phe Cys Leu Ser Leu Leu Ile Phe Ser Leu Leu
    50                  55                  60
Glu Ile Cys Val Arg Ile Pro Ile Lys Pro Gln Leu Pro
65                  70                  75
```

<210> 26392
<211> 149
<212> PRT
<213> A.fumigatus

<400> 26392

```
Leu Thr Arg Leu Ser Arg Met Gln Cys Asp Thr Val Glu Gly Gly Leu
1               5                   10                  15
Lys Gly Asn Gln Leu Ile Ala Ala Thr Ala Arg Lys Val Trp Asn Lys
            20                  25                  30
Ala Gly Phe Leu Gly Phe Phe Arg Gly Leu Pro Leu Gly Leu Val Gly
        35                  40                  45
Met Phe Pro Tyr Ala Ala Ile Asp Leu Ser Thr Phe Glu Tyr Leu Lys
    50                  55                  60
Arg Ala Leu Leu Ala Arg Gln Ala Arg Ile Asn His Cys His Glu Glu
65                  70                  75                  80
Asp Val Pro Leu Asn Asn Phe Thr Thr Gly Ala Ile Gly Ala Leu Ser
                85                  90                  95
```